

City and County of San Francisco

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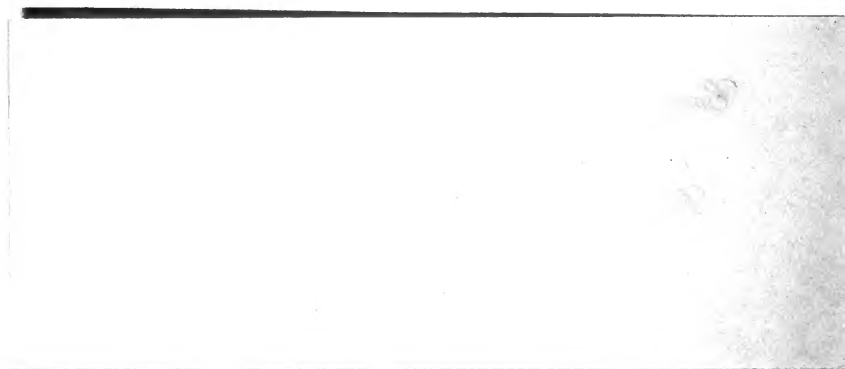


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City and County of San Francisco,
John E. Behan,
Clerk.



SAN FRANCISCO

Municipal Reports

FOR THE

FISCAL YEAR 1904-1905, ENDING JUNE 30, 1905

ZSF

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PUBLISHED BY ORDER OF THE

Board of Supervisors

SAN FRANCISCO:

PACIFIC PRINTING & ENGRAVING CO.

1907

FIREMAN'S FUND GROUP



PACIFIC PRINTING & ENGRAVING CO.

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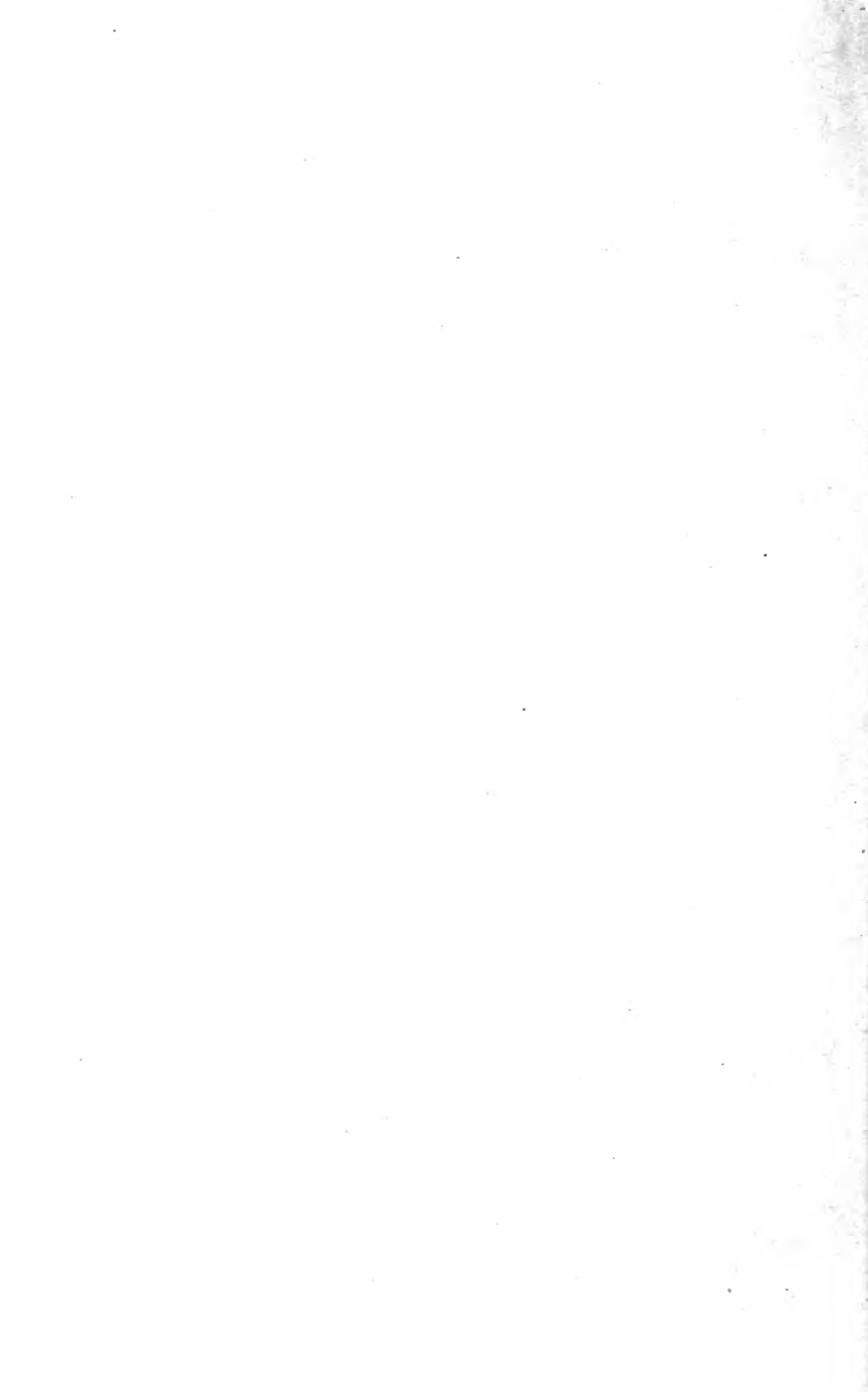
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City and County Government

THE CITY AND COUNTY OF SAN FRANCISCO

is a consolidated city and county and is governed by a Freeholders' Charter framed in accordance with the provisions of Section 8 of Article XI of the Constitution of the State of California. The charter was framed by the Board of Freeholders and ratified by the voters on May 26th, 1898, was approved by the Legislature January 26, 1899, and took effect January 8th, 1900. For a copy of said charter see statutes of the State of California for 1899, page 241.

The charter was amended by the adoption of seven amendments in December, 1902, which amendments were approved by the Legislature in 1903. For a copy of said amendments see statutes of the State of California for 1903, page 583.

Prior to the adoption of the present Freeholders' Charter the City and County was governed by the so-called "Consolidation Act," which was a special act of the Legislature passed and approved April 19, 1856.

From May, 1850, until the taking effect of the "Consolidation Act," the City was governed by special acts of the Legislature incorporating the City of San Francisco as a municipal corporation.

CITY AND COUNTY OFFICIALS.

ELECTIVE OFFICERS.

Municipal elections are held on the first Tuesday after the first Monday in November of each odd-numbered year. At the election held in November, 1903, the following officers were elected:

EXECUTIVE DEPARTMENT

MAYOR—E. E. SCHMITZ, Salary \$6,000. Term expires January, 1906.

AUDITOR—HARRY BAEHR, Salary \$4,000. Term expires January, 1906.

TREASURER—JOHN E. McDOUGALD, Salary \$4,000. Term expires January, 1906.

ASSESSOR—WASHINGTON DODGE, Salary \$8,000. Term expires January, 1908.

TAX COLLECTOR—JOSEPH H. SCOTT, Salary, \$4,000. Term expires January, 1906.

CORONER—T. B. W. LELAND, Salary \$4,000. Term expires January, 1906.
 RECORDER—EDMOND GODCHAUX, Salary, \$3,600. Term expires January, 1906.

LEGISLATIVE DEPARTMENT

MAYOR E. E. SCHMITZ, (ex-officio) President of the Board of Supervisors

BOARD OF SUPERVISORS.

Salary \$1,200 each per annum. The terms of all expire January, 1906.

GEORGE ALPERS	SUPERVISOR
FRED N. BENT	SUPERVISOR
JAMES P. BOOTH	SUPERVISOR
CHARLES BOXTON	SUPERVISOR
HENRY U. BRANDENSTEIN	SUPERVISOR
SAMUEL BRAUNHART	SUPERVISOR
A. COMTE, JR.	SUPERVISOR
JOHN CONNOR	SUPERVISOR
A. A. D'ANCONA	SUPERVISOR
FREDERICK EGGERS	SUPERVISOR
JAMES L. GALLAGHER	SUPERVISOR
OSCAR HOCKS	SUPERVISOR
THEODORE LUNSTEDT	SUPERVISOR
GEORGE B. McCLELLAN	SUPERVISOR
HENRY PAYOT	SUPERVISOR
L. A. REA	SUPERVISOR
EDWARD R. ROCK	SUPERVISOR
WILLIAM W. SANDERSON	SUPERVISOR
CHAS. W. FAY (appointed).....	CLERK BOARD OF SUPERVISORS

JUDICIAL DEPARTMENT

There are twelve Superior Judges, who are elected at the biennial state elections in the even-numbered years; their terms of office are six years and four are elected every two years. The Superior Courts are part of the State's judicial system and are therefore, not municipal officials. The salary of the Superior Judges is \$4,000 a year, one-half of which is paid by the State and the other half by the City and County.

JUDGES OF THE SUPERIOR COURT.

WILLIAM P. LAWLER	PRESIDING JUDGE
J. M. SEAWELL	DEPARTMENT NO. 1
F. J. MURASKY	DEPARTMENT NO. 2
FRANK H. KERRIGAN	DEPARTMENT NO. 3
JAMES C. B. HEBBARD	DEPARTMENT NO. 4
JOHN HUNT	DEPARTMENT NO. 5
FRANK H. DUNNE	DEPARTMENT NO. 6
THOMAS F. GRAHAM	DEPARTMENT NO. 7

M. C. SLOSS	DEPARTMENT NO. 8
J. V. COFFEY	DEPARTMENT NO. 9
JAMES M. TROUTT	DEPARTMENT NO. 10
WILLIAM P. LAWLER	DEPARTMENT NO. 11
CARROLL COOK	DEPARTMENT NO. 12

JUSTICE OF THE PEACE.

The Justices' Courts are likewise a part of the State's judicial system and the Justices of the Peace are elected at State elections every four years, the last election having been in 1902. The salary of Justices of the Peace is \$3,000 each and the same is paid by the City and County.

ISIDORE GOLDEN	JUSTICE OF THE PEACE
ALFRED D. LAWSON	JUSTICE OF THE PEACE
JOHN J. VON NOSTRAND	JUSTICE OF THE PEACE
JOHN R. DANIELS	JUSTICE OF THE PEACE
THOMAS F. DUNN	JUSTICE OF THE PEACE
GEO. S. McCOMB (appointed)	CLERK JUSTICES' COURT

POLICE JUDGES.

Police Courts are provided for by the Charter of the City and County, and Police Judges are elected at municipal elections. The term of office is four years, and two of the Judges are elected at each biennial election. The salary of each Judge is \$3,600 per annum.

Dept. No. 1—EDMUND P. MOGAN.	Term expires January, 1908.
Dept. No. 2—CHARLES T. CONLAN.	Term expires January, 1906.
Dept. No. 3—ALFRED J. FRITZ.	Term expires January, 1906.
Dept. No. 4—GEORGE H. CABANISS.	Term expires January, 1908.

CITY ATTORNEY

PERCY V. LONG	SALARY \$5,000
Term expires January, 1906.	

DISTRICT ATTORNEY.

LEWIS F. BYINGTON	SALARY \$5,000
Term expires January, 1906.	

PUBLIC ADMINISTRATOR.

M. J. HYNES	SALARY FEES
Term expires January, 1906.	

COUNTY CLERK.

JOHN J. GRIEF	SALARY \$4,000
Term expires January, 1906.	

SHERIFF.

PETER J. CURTIS	SALARY \$8,000
Term expires January, 1906.	

DEPARTMENT OF PUBLIC EDUCATION

SUPERINTENDENT OF COMMON SCHOOLS.

W. H. LANGDON	SALARY \$4,000
Elected at State election, 1902. Term, 4 years.	

APPOINTED OFFICERS

The members of all Boards are, under the provisions of the Charter, appointed by the Mayor, with the exception of the Board of Library Trustees. Each Board appoints its Secretary.

DEPARTMENT OF PUBLIC WORKS

COMMISSIONERS OF THE BOARD OF PUBLIC WORKS.

EDWARD H. AIGELTINGER	COMMISSIONER
Salary \$4.000. Term expires January, 1908.	
THOMAS F. EGAN	COMMISSIONER
Salary \$4.000. Term expires January, 1906.	
F. A. MAESTRETTI	PRESIDENT
Salary \$4.000. Term expires January, 1907.	
LOUIS L. LEVY	SECRETARY
THOMAS P. WOODWARD	CITY ENGINEER

DEPARTMENT OF PUBLIC EDUCATION

MEMBERS OF THE BOARD OF EDUCATION.

ALFRED RONCOVIERI	PRESIDENT
Salary \$3.000. Term expires January, 1907.	
A. ALTMANN	MEMBER
Salary \$3.000. Term expires January, 1909.	
LAWRENCE F. WALSH	MEMBER
Salary \$3.000. Term expires January, 1908.	
THOMAS F. BOYLE	MEMBER
Salary \$3.000. Term expires January, 1906.	
EMMET P. BARRETT	SECRETARY

POLICE DEPARTMENT

BOARD OF POLICE COMMISSIONERS

ALEXANDER O'GRADY	COMMISSIONER
Salary \$1.200. Term expires January, 1906.	
JOHN A. DRINKHOUSE	COMMISSIONER
Salary \$1.200. Term expires January, 1907.	
THOS. REGAN	COMMISSIONER
Salary \$1.200. Term expires January, 1908.	
DR. JOSEPH F. POHEIM (President)	COMMISSIONER
Salary \$1.200. Term expires January, 1909.	
J. GEO. BOYNE	SECRETARY
JEREMIAH F. DINAN	CHIEF OF POLICE

FIRE DEPARTMENT

BOARD OF FIRE COMMISSIONERS.

THOS. F. FINN	PRESIDENT
Salary \$1,200. Term expires January, 1908.	
J. J. BARRETT	COMMISSIONER
Salary \$1,200. Term expires January, 1907.	
J. S. PARRY	COMMISSIONER
Salary \$1,200. Term expires January, 1906.	
HENRY WREDEN	COMMISSIONER
Salary \$1,200. Term expires January, 1909.	
J. W. McCARTHY	SECRETARY
D. T. SULLIVAN	CHIEF ENGINEER

DEPARTMENT OF ELECTRICITY

The members of the Board of Police Commissioners and the Board of Fire Commissioners have joint control of the Department of Electricity.

WILLIAM R. HEWITT

CHIEF OF THE DEPARTMENT

DEPARTMENT OF PUBLIC HEALTH

MEMBERS OF THE BOARD OF HEALTH.

J. W. WARD, M. D.	PRESIDENT
No salary. Term expires January, 1906.	
JULES SIMON, M. D.	MEMBER
No salary. Term expires January, 1907.	
SIDNEY WORTH, M. D.	MEMBER
No salary. Term expires January, 1905.	
W. A. HARVEY, M. D.	MEMBER
No salary. Term expires January, 1908.	
J. V. HUGHES, M. D.	MEMBER
No salary. Term expires January, 1908.	
F. A. MAESTRETTI	
EX-OFFICIO AS PRESIDENT OF THE BOARD OF PUBLIC WORKS	
JEREMIAH F. DINAN	EX-OFFICIO AS CHIEF OF POLICE
D. F. RAGAN, M. D.	HEALTH OFFICER

DEPARTMENT OF ELECTIONS

ELECTION COMMISSIONERS.

ROBERT W. ROBERTS*	PRESIDENT
Salary \$1,000. Term expires January, 1906.	
A. W. VOORSANGER	COMMISSIONER
Salary \$1,000. Term expires January, 1909.	
E. C. LEFFINGWELL	COMMISSIONER
Salary \$1,000. Term expires January, 1908.	
JAMES A. DEVOTO	COMMISSIONER
Salary \$1,000. Term expires January, 1908.	
THOMAS McGUIRE	COMMISSIONER
Salary \$1,000. Term expires January, 1907.	
GEO. P. ADAMS	REGISTRAR

*Died October 10, 1905.

DEPARTMENT OF CIVIL SERVICE

CIVIL SERVICE COMMISSIONERS.

JOHN W. ROGERS*	PRESIDENT
Salary \$1,200. Term expires January, 1908.	
GEO. H. BAHRS	COMMISSIONER
Salary \$1,200. Term expires January, 1906.	
CHAS. J. WILLIAMS	COMMISSIONER
Salary \$1,200. Term expires January, 1907.	
EDWARD F. MORAN	CHIEF EXAMINER AND SECRETARY
*Resigned July 15, 1905.	

PARK COMMISSION

COMMISSIONERS.

A. B. SPRECKELS	COMMISSIONER
No salary. Term expires January, 1908.	
R. H. LLOYD	COMMISSIONER
No salary. Term expires January, 1907.	
W. J. DINGEE	COMMISSIONER
No salary. Term expires January, 1908.	
WM. H. METSON	COMMISSIONER
No salary. Term expires January, 1909.	
EARL CUMMINGS	COMMISSIONER
No salary. Term expires January, 1906.	
HERBERT L. SCHMITZ	SECRETARY
JOHN McLAREN	SUPERINTENDENT

PUBLIC LIBRARY AND READING ROOMS

BOARD OF TRUSTEES.

Under the provisions of the charter the Board of Trustees of the Public Library and Reading Rooms in office at the time of the taking effect of said Charter should continue to act as such. All vacancies are filled by the Board. There are no fixed terms of office. The Mayor is ex-officio a member.

BOARD OF TRUSTEES.

RALPH C. HARRISON	PRESIDENT
AZRO L. MANN	TRUSTEE
COLLIN M. BOYD	TRUSTEE
GEORGE T. SHAW	TRUSTEE
P. N. LILIENTHAL	TRUSTEE
THOMAS B. BISHOP	TRUSTEE
EDWARD R. TAYLOR	TRUSTEE
JOSEPH O'CONNOR	TRUSTEE
HORACE DAVIS	TRUSTEE
SHELDON G. KELL	TRUSTEE
JOHN H. WISE	TRUSTEE
E. E. SCHMITZ	MAYOR
GEORGE T. CLARK	LIBRARIAN
GEO. A. MULLIN	SECRETARY

Auditor's Report

SAN FRANCISCO, August 31, 1905.

To the Honorable E. E. Schmitz, Mayor, and Board of Supervisors,
City and County of San Francisco.

Gentlemen—In compliance with Article XVI, Section 9, of the Municipal Charter of the City and County of San Francisco, I have the honor to submit my annual report for the fiscal year ending June 30, 1905.

The following statement gives a brief history in detail of all the financial transactions of the year including the various funds and accounts in the municipality, the receipts and disbursements, the amount appropriated by budget allowance and in tabulated form the disposition of the same. I have also arranged in my statement an alphabetical summary of all items of expenditure showing the total expenditure under each disbursement.

With pleasure I announce that never before in the history of the municipality has the financial condition of the City been in a more satisfactory condition. All funds show a clear balance over liabilities. The various bond issues are shown in a comprehensive table by themselves.

During the past year I have audited the sum of five hundred and forty-nine thousand, seven hundred and six and 58-100 dollars (\$549,706.58) due taxpayers as rebates on taxes paid on the hospital and school taxation of 1902-1903 which was declared invalid by Court decision, leaving a balance of \$85,145.40 to be returned to the taxpayers on demand.

The books and accounts of this department are investigated annually by competent experts, appointed by the Supervisors, and are now reported in excellent condition.

While the duties here have been considerably increased during my incumbency, by prudent business methods I have made it possible to keep the business of this department up to its usual good standard without any extra expenditures.

Respectfully submitted,

HARRY BAEHR, Auditor.

AUDITOR

ACCOUNT.	\$	Budget Appropriation & Allowance Provided by State Laws.....	\$	Salaries.	\$	Wages, Labor, Etc	\$	Supplies, Material, & Contracts.....	\$	Total.
Advertising for City and County Officers Transferred from Advertising Fund	17,000.00	9,800.34						22,221.47		22,221.47
Assessor's Department:—										
Auditor	4,000.00			3,999.96						3,999.96
Auditor's Deputy and Assistants	14,400.00			14,396.66						14,396.66
Auditor's Assessment Roll	10,000.00					9,911.40				9,911.40
Auditor's Incidentals	500.00							56.10		56.10
Furnishing blanks, tags and numbers to Tax Collector	2,000.00							1,918.75		1,918.75
Burial of Indigent Dead:—										
From Alms House	5,000.00							517.00		517.00
From City and County Hospital								742.50		742.50
From Morgue								1,194.50		1,194.50
From Health Department								822.50		822.50
From Mt. St. Joseph's Asylum								306.00		306.00
From San Francisco Foundling Asylum								270.50		270.50
Assessor Deputies and Cashier	8,000.00			7,999.92						7,999.92
Clerks	15,000.00			15,000.00						15,000.00
Extra Clerks	25,200.00			25,200.00						25,200.00
Assessor's Field Deputies Expenses	46,000.00			45,900.65				986.05		45,900.65
Assessor, Stationery for	1,000.00							3,739.82		3,739.82
Assessor, Furniture for	4,000.00							1,114.66		1,114.66
Assessor, Wiring and Lighting	1,200.00			400.00				397.34		397.34
Auditor's Department:—										
Auditor	4,000.00			3,999.96						3,999.96
Auditor's Deputy and Assistants	14,400.00			14,396.66						14,396.66
Auditor's Assessment Roll	10,000.00					9,911.40				9,911.40
Auditor's Incidentals	500.00							56.10		56.10
Furnishing blanks, tags and numbers to Tax Collector	2,000.00							1,918.75		1,918.75

AUDITOR

From Small Pox Hospital				
Head Boards				20.50
Zinc Boxes				392.00
				41.00
				4,396.50
Coroner's Department:—				
Coroner	4,000.00			
Deputy and Assistants	14,520.00	3,998.96		
Expenses	3,845.00	14,520.00		
Boarding Horses				1,175.00
Boat Hire				32.00
Dry Goods				50.98
Fuel				11.55
Harness				127.40
Hardware				88.62
Horses				440.00
Horse Clipping				18.25
Horse Shoeing				160.00
Incidentals				14.85
Instruments (Surgical)				41.60
Lumber				26.70
Photographing Unknown Dead				100.00
Receivers				80.00
Recovering Bodies from Bay				370.00
Rent of Premises				660.00
Rent of Filters				3.00
Rubber Goods				4.44
Stationery and Printing				14.43
Subscription to Papers				26.55
Typewriter, Repairs to				7.50
Wagon, Repairs to				122.75
Washing				72.50
Water				28.80
				3,676.92
Chinatown Sanitary Measures				
Cleaning Chinatown	10,000.00		9,998.19	
				510.00
City Directories				
City Attorney, Office of	510.00			
City Attorney	5,000.00	4,999.92		
City Attorney Assistants	15,300.00	15,300.00		
Defense of Suit S. V. W. Co	25,000.00			24,571.50
Printing Transcripts, Etc.	750.00			718.90
Fees and Reporter's Ex	600.00			529.25
Transportation	100.00			56.00

AUDITOR

ACCOUNT.	Budget Appropriation & Allowance Provided by State Laws.....	Salaries.	Wages, Labor, Etc	Supplies, Material, & Contracts.....	Total.
County Clerk, Office of	4,000.00	3,999.96			3,999.96
County Clerk	72,600.000	72,566.65			72,566.65
County Clerk Assistants					
Printing Transcripts and Briefs	4,000.00			3,010.70	3,010.70
Furniture	1,900.00			1,900.00	1,900.00
Jury Fees, Criminal Cases	25,000.00		24,424.00		28,439.20
Witness Expense, Criminal Cases				4,115.20	3,846.10
Jury and Witness Expense (Meals, etc.)	800.00				7,200.00
Court Interpreters	7,200.00	7,200.00			4,475.83
Court Orders—Miscellaneous, State Law					
Department of Civil Service:—	8,700.00				
Commissioners		3,600.00			
Examiner		2,400.00			
Clerk and Stenographer		2,700.00			
Department of Elections:—	142,000.00				
Commissioners and Registrar		4,999.80			
Deputies and Clerks		34,308.09			
Total Salaries, \$39,307.89					
Officers of Election				1,347.55	
Advertising				991.50	
Ballots and Paper				140.15	
Cartage				33.35	
Collation				15.00	
Directories				15.00	
Expressage and Freight				144.00	
			37,605.25		

Erecting and taking down Booths.....	3,163.10
Engrossing.....	36.00
Furnishing Booths.....	1,959.86
Hardware.....	381.85
Ice.....	29.30
Incinerating Ballots.....	30.00
Incidentals.....	1.45
Iron Work.....	52.50
Livery and Carriage Hire.....	550.50
Lumber and Carpenter Work.....	2,390.60
Painting.....	259.50
Plans.....	50.00
Printing.....	12,666.71
Postage.....	1,080.00
Rents.....	5,280.50
Repairs and Caretaker of Voting Machine.....	966.50
Stationery.....	1,591.95
Scavenger Work.....	5.50
Telephone Service.....	75.00
Tools Repaired.....	1.50
Typewriting Supplies.....	71.00
Purchase of Voting Machine.....	26,500.00

136,728.01

780.00
4,729.50
1,154.00
5,531.15
1,969.70
26.25
300.00
102.50
2,723.35

13.38
7.04
302.49

50,000.00

Department of Electricity:—

Electrician.....	2,400.00
Bookkeeper.....	1,500.00
Stenographer.....	2,107.35
Storekeeper.....	770.95
Clerks.....	855.00
Engineer.....	1,508.20
Operator's.....	9,617.10
Inspectors.....	3,649.80
Foreman.....	2,040.00
Batterymen.....	1,948.70
Finisher.....	
Instrument Makers.....	
Machinists.....	
Linemen.....	
Repairs.....	
Painters.....	
Helpers.....	
Teamsters.....	
Wiremen.....	
Bluestone.....	
Brass Material.....	
Chemicals.....	

AUDITOR

ACCOUNT.	Budget Appropriation & Allowance Provided by State Laws.....	Salaries.	Wages, Labor, Etc	Supplies, Material, & Contracts.....	Total.
Chimney Cleaning				18.50	
Clock				2.40	
Dry Goods				6.96	
Electrical Material				2,518.61	
Fire Extinguisher				42.00	
Forgings and Castings				22.72	
Fuel				69.60	
Glass				2.70	
Hardware				771.84	
Harness and Repairs				87.10	
Horseshoeing				154.80	
Horsekeeping				1,061.70	
Incidentals				7.36	
Iron				247.94	
Leather				23.89	
Livery				143.50	
Lumber and Millwork				193.65	
Paints and Oils				161.18	
Paving				26.01	
Repairs to Wagon				67.75	
Rubber Goods				12.85	
Scavenger Work				10.00	
Signal Boxes				18.00	
Stationery				5.88	
Subscription to Papers				2.00	
Typewriter Repairs				1.00	
Washing				60.00	
Wagon Repairs				299.50	
Wire				441.42	
					50,44. '17

35,000.00

Department of Electricity, Underground

Engineer	1,375.00	
Clerk	495.00	
Storekeeper	200.00	
Stenographer	85.50	
Foreman	1,091.60	
Cable Testers	3,299.40	
Helpers	600.00	
Painters	146.00	
Bricklayers	390.00	
Hodcarriers	254.00	
Machinists	802.50	
Carpenters	838.10	
Finisher	267.00	
Cement Finisher	5.00	
Hostler	150.00	
Laborers	2,632.00	
Linemen	1,812.75	
Instrument Makers	7,284.00	
Pavers	301.85	
Rammers	177.75	
Teamsters	1,530.20	
Repairs	90.00	
Wiremen	170.95	
Brooms		17.11
Brick, Etc.		566.65
Chemicals		32.62
Castings		708.41
Electrical Supplies		431.08
Gravel		35.00
Hardware		448.41
Fuel		18.35
Horsekeeping		101.75
Horseshoeing		101.25
Iron		1184.58
Livery		95.20
Lumber		458.55
Mantels		9.75
Oil and Paints		121.46
Paving		56.80
Rock		46.75
Rubber Goods		32.93
Repairs to Bitumen		332.75
Stationary		19.90
Washing		12.00
Wire		6,259.91

34,990.71

6,259.91

AUDITOR

ACCOUNT.	Budget Appropriation & Allowance Provided by State Laws.....	Salaries.	Wages, Labor, Etc	Supplies, Material, & Contracts.....	Total.
Department of Electricity, Overhead Wires		8,000.00			
Foreman			625.00		
Linemen			5,325.75		
Wiremen			229.35		
Repairer			174.00		
Hardware				427.00	
Livery				13.50	
Repairs to Wagon				72.50	
Wire				680.16	7,547.26
District Attorney's Office:—	37,400.00				
District Attorney		4,999.92			37,399.92
District Attorney's Assistants		32,400.00			1,702.66
Examination of Books of Public Officers:—	2,000.00		1,702.66		
Examination of Insane People:—	5,000.00				
State Law	1,510.00				6,510.00
Fire Department:—	856,630.00				
Commissioners		4,800.00			
Secretary		2,400.00			
Chief Engineer		3,999.96			
Chief Assistants		5,400.00			
Battalion Chiefs		16,973.65			
Employees of Fire Engine Companies		455,846.40			
Employees of Hook and Ladder Companies		140,130.75			
Employees of Chemical Companies		34,493.80			
Employees of Monitor Batteries		2,219.30			
Employees of Relief Companies		20,214.00			

3,797.30
1,800.00
1,419.85
6,795.00
3,240.00
4,141.00
1,200.00
3,483.50

Employees of Water Tower Companies
 Superintendent of Engines
 Commissary
 Stablemen and Hostlers
 Hydrantmen
 Harness Makers
 Veterinary Surgeon
 Watchmen
 Blacksmiths
 Boiler Makers
 Brass Finishers
 Draymen
 Extramen
 Helpers
 Horsehoers
 Injured Firemen
 Substitutes
 Machinists
 Painters
 Steam Fitters
 Woodworkers
 Total Salaries and Wages \$747,721.09

9,439.77
1,085.00
1,195.00
1,575.00
336.75
42.00
300.00
110.00
7,808.20
5,444.35
4,465.91
1,196.85
2,357.75

3,150.00
181.69
96.25
548.23
547.37
494.04
47.52
9.14
1,330.90
181.11
23.46
468.20
15.00
36,027.67
15.96
7,414.25
1,533.02
3,324.86
1,406.99
175.00
11,019.50
389.00
6,010.50

Automobile
 Automobile, Repairs to
 Badges
 Brass Material
 Brooms, Brushes, Etc.
 Castings
 Cement-Lime, Etc.
 Cordage
 Drugs and Chemicals
 Dry Goods
 Electrical Material
 Electric Power
 Fire Extinguishers
 Forage
 Flags
 Fuel
 Furniture
 Hardware
 Harness and Repairs
 Heaters
 Horses
 Horsekeeping
 Horseshoeing

AUDITOR

ACCOUNT.	Budget Appropriation & Allowance Provided by State Laws.....	Salaries.	Wages, Labor, Etc	Supplies, Material, & Contracts.....	Total.
Hose				3,960.78	
Hydrants, set and re-set				11,916.25	
Iron and Steel				357.20	
Lamps and repairs				663.95	
Leather				79.26	
Lumber				310.18	
Machinery and Repairs				103.23	
Metal Polish				71.40	
Oil				2,396.15	
Oil Tanks				20.00	
Paints				1,793.33	
Pattern Work				56.22	
Pipe Covering				152.67	
Rents				1,210.00	
Repairs to Rolling Stock				317.93	
Repairs to Boilers				97.93	
Repairs to Scales				12.00	
Removing Rubbish				3,648.00	
Rubber Goods				1,342.64	
Springs				372.25	
Storage				95.10	
Wagon Material				175.88	
Wire				18.00	
Total Exp. Mat. Etc. \$104,379.22					852,100.31
Relief of Exempt Firemen:—					
Compensation	5,000.00		5,000.00		5,000.00
Fourth of July Observance					
Advertising	2,500.00			75.00	
Carriage Hire				150.00	

Decorations	117.50			
Fireworks	800.00			
Printing	72.50			
Music (Instrumental)	976.00			
Music (Vocal)	63.00			
Rent	25.00			
Secretary	194.50			
Typewriter	14.50			
Usher	10.00			
Furniture for Public Buildings	8,038.57			
Furniture for Supervisors	2,419.62			
Furniture for Law Library	739.25			
Furniture for Chemical Laboratory	246.06			
Grand Jury Expenses				
Auto Hire	55.50			
Incidentals	17.75			
Expert Services	285.00			
Photographing	56.00			
Stenographer	756.75			
Rent	27.00			
(See Court Orders)				
Department of Health:—				
Alms House—Executive	7,920.00			
Superintendent	2,400.00			
Superintendent's Assistant	1,200.00			
Matron	720.00			
Commissary	1,200.00			
Resident Physician	1,620.00			
Attendants	780.00			
Alms House—Other Employees	18,080.00			
Nurses, Attendants, Mechanics, Etc	18,072.70			
Alms House—Maintenance	64,000.00			
Brooms and Brushes	14.60			
Drugs and Chemicals	696.89			
Dry Goods and Clothing	3,058.85			
Fuel	4,310.23			
Furniture	98.64			
	2,500.00			
	8,038.57			
	2,419.68			
	739.25			
	246.06			
	1,198.00			
	7,920.00			
	18,072.70			

ACCOUNT.	Budget Appropriation & Allowance Provided by State Laws.....	Salaries.	Wages, Labor, Etc	Supplies, Material, & Contracts.....	Total.
Forage.....				4,993.40	
Fruits and Vegetables.....				1,311.31	
Groceries.....				18,870.68	
Hardware.....				1,096.24	
Harness and Repairs.....				241.10	
Horse Clipping.....				17.50	
Horseshoeing.....				488.75	
Ice.....				160.35	
Incidentals.....				34.00	
Laundry Service.....				25.00	
Leather and Findings.....				509.68	
Lumber.....				12.00	
Machinery and Repairs.....				407.68	
Meats, Poultry and Fish.....				17,533.71	
Milk and Cream.....				4,745.00	
Oil.....				1,717.29	
Paints.....				25.80	
Plants and Seeds.....				66.35	
Powder.....				8.70	
Plumbing.....				13.08	
Rubber Goods.....				315.08	
Tobacco.....				991.64	
Veterinary Services.....				104.75	
Wagon Repairs.....				632.50	
Wines and Liquors.....				1,511.09	
Board of Health, Executive:—					63,984.89
Health Officer.....	2,400.00	2,400.00			2,400.00
Secretaries, Clerks and Messengers.....	6,720.00	4,620.00			4,620.00
Laboratory Employees.....	5,700.00	4,697.00			4,697.00
Medical Attendance.....	3,000.00	2,974.95			2,974.95

AUDITOR

8,383.70
5,488.50
8,380.15
4,800.00
900.00
2,400.00

30.50
1,389.27
9.45
70.25
181.75
14.40
602.66
371.38
18.00
339.21
62.50
2,692.10
12.50
15.15
3.26
169.35
15.00

5,996.73
7,500.00
4,139.05
22,399.75
2,400.00

254.92
119.53
156.45
20.00
11,581.43
3,671.32
42.98
9.00
5,531.04
369.52
662.05
2,994.24

8,383.70
5,488.50
8,380.15
4,800.00
900.00
2,400.00

7,500.00
4,139.05
22,399.75
2,400.00

10,860.00
5,520.00
12,300.00
4,800.00
900.00
2,400.00

6,000.00

Sanitary Inspectors
Plumbing Inspection
Food Inspection
Market Inspection
Disinfection
Total Salaries \$45,044.30

Expense of Maintenance:—
Badges
Chemicals and Drugs
Clippings
Cleaning Chinatown
Hardware
Ice
Incidentals
Instruments (Surgical)
Lamps
Laboratory Supplies
Laundry Service
Livery and Transportation
Painting
Papers
Rubber Goods
Samples
Stenographing
Total Expense \$5,996.73

City and County Hospital, Executive Department:
Secretaries and Clerks
Attendants
Chaplains
Total Salaries \$36,438.80

Maintenance, Nurses Salaries
Alcohol
Brooms and Brushes
Crocery and Glassware
Carriage Hire
Drugs and Chemicals
Dry Goods and Clothing
Electrical Supplies
Engrossing
Fuel
Furniture
Forage
Fruits and Vegetables

85,960.00

AUDITOR

ACCOUNT.	Budget Appropriation & Allowance Provided by State Laws.....	Salaries.	Wages, Labor, Etc	Supplies, Material, & Contracts.....	Total.
Groceries.....				21,912.32	
Hardware and Kitchen Furniture				2,021.20	
Horseshoeing.....				131.50	
Horse.....				150.00	
Ice.....				888.45	
Incidentals.....				242.85	
Instruments (Medical)				1,094.39	
Liquors.....				1,078.62	
Milk and Cream.....				7,273.78	
Meat, Fish and Poultry				13,123.23	
Machinery.....				84.45	
Paints and Oils.....				115.25	
Paper.....				26.75	
Printing.....				22.50	
Repairs to Typewriter				10.70	
Repairs to X-Ray.....				594.77	
Repairs to Wagons.....				223.00	
Rents.....				170.00	
Rubber Goods.....				666.19	
Tallow.....				38.00	
Nurse Salaries.....		9,442.70			84,723.13
Ward Supplies.....	5,000.00				
Total \$84,723.13					
Emergency and Insane Hospitals, Executive:—	36,420.00				
Chief Surgeon and Assistants.....		14,064.00			
Chief Steward and Assistants.....		7,308.00			
Matrons.....		7,888.00			
Drivers of Ambulance.....		7,160.00			
				4,784.78	4,784.78
					36,420.00

Maintenance:—				
Drugs.....				1,505.00
Dry Goods.....				614.30
Electric Supplies.....				9.00
Forage.....				1,211.19
Furniture.....				21.63
Groceries and Provisions.....				1,302.18
Hardware.....				151.63
Harness.....				144.95
Horseshoeing.....				679.50
Horsekeeping.....				15.00
Horse Clipping.....				17.50
Instruments (Surgical).....				615.62
Incidentals.....				464.74
Ice.....				65.95
Lamps, etc.....				93.60
Liquors.....				67.48
Paints and Oils.....				5.20
Painting.....				40.00
Rents of Stables.....				1,500.00
Repairs to Ambulance.....				394.70
Rubber Goods.....				30.89
Scavenger Work.....				56.25
Straight Jacket.....				22.00
Veterinary Service.....				5.00
Washing.....				1,150.00
				10,183.34
Leper Hospital:—				
Steward.....				
Nurse and Attendants.....			1,020.00	
Orderlys.....			880.00	
Porter.....			896.98	
Cook and Laundress.....			515.00	
			900.00	
				4,211.98
Maintenance:—				
Buggy.....				175.00
Drugs.....				190.00
Dry Goods and Clothing.....				308.89
Forage.....				75.96
Fuel.....				359.75
Groceries and Provisions.....				4,123.13
Hardware.....				35.06
Horseshoeing.....				14.00
Kitchen Furniture.....				1.89
Paints.....				6.64
Plumbing.....				70.50
				5,400.00

AUDITOR

ACCOUNT.	Budget Appropriation & Allowance Provided by State Laws	Salaries.	Wages, Labor, Etc	Supplies, Material, & Contracts	Total.
Repairs to Wagons.	5,000.00	912.55		36.00	5,399.50
Rubber Goods		755.15		2.68	
Smallpox Hospital.		114.00			
Physician		505.15			
Nurse		125.00			
Cook					
Laundress					
Watchman					
Maintenance:—					
Brooms				62.70	
Drugs				69.25	
Dry Goods				43.39	
Forage				60.00	
Fuel				138.15	
Groceries				1,122.75	
Hardware				20.43	
Harness				26.75	
Horseshoing				38.00	
Plumbing				21.75	
Washing				3.60	
Interment of deceased Ex-Union Soldiers and Sailors. State Law	4,000.00			3,250.00	3,250.00
Justices of Peace and Assistants	20,700.00	2,450.00			
Presiding Judge		11,037.50			
Associate Judges		8,400.00			
Clerk and Assistants					21,887.50

AUDITOR

Judges of Superior and Secretary:—	25,800.00	25,799.04	25,799.04
Reporter's Fees, Superior Court Orders, State Law.	17,003.00		
Department No. 4		35.00	
Department No. 6		5,111.10	
Department No. 7		100.00	
Department No. 11		6,939.85	
Department No. 12		7,961.98	
Law Library:—	4,680.00		
Librarian		2,400.00	
Messenger		1,080.00	
Book Binder		1,200.00	
Law and Motion Calendar:—	3,300.00		3,300.00
Printing and Publishing			
Lighting Streets and Public Buildings:—	320,000.00		319,988.00
With Gas and Electricity			
Mayor's Office:—	11,100.00		
Mayor		6,000.00	
Secretary		2,400.00	
Usher		900.00	
Stenographer		1,800.00	
Contingent Expenses	3,600.00		3,600.00
Maintenance of Minors, Etc:—			900.00
Criminal Insane	2,500.00		
Feeble Minded Children	20,000.00		20,910.00
Juvenile Detention Station	5,000.00		4,659.76
Magdalen Asylum	7,000.00		6,897.00
Preston School of Industry	7,000.00		6,667.35
Whittier State School. State Law }		3,325.86	9,993.21
Boys' and Girls' Aid—Non. Sec }	12,000.00	6,051.18	6,051.18
R. C. O. Asylum		476.96	476.96
Mt. St. Joseph Asylum		881.60	881.60
St. Vincent Society		3,563.18	3,563.18
St. Francis School		900.00	900.00
Pajaro Valley		25.00	25.00
Memorial Day—Observance of	500.00		499.65
Money Refunded (State Law)			2,950.64

ACCOUNT.	Budget Appropriation & Allowance Provided by State Laws.....	Salaries.	Wages, Labor, Etc	Supplies, Material, & Contracts.....	Total.
Municipal Reports	4,000.00			2,569.30	2,569.30
Police Judges and Stenographers	24,000.00	14,400.00			24,000.00
Police Judges		9,600.00			
Police Stenographers.....					
Police Department:—	963,880.00	6,090.00			
Commissioners and Secretary		3,425.76			
Chief of Police		4,752.00			
Chief Clerk and Property Clerk		17,133.00			
Captains of Police		17,388.00			
Lieutenants of Police		64,496.30			
Sergeants of Police		26,220.67			
Detective Sergeants		26,944.51			
Corporals of Police		715,731.67			
Police Officers		1,500.00			
Police Surgeon		1,500.00			
Stenographer		2,280.00			
Matrons and Cook		1,800.00			
Telephone Operators		900.00			
Hostler		25,878.00			
Patrol Drivers				16,788.00	
Contributions of Officers				1,918.33	
Fines Imposed on Officers					
Total Salaries \$916,039.91					
Police Station (Harbor) 1903-1904 acct	15,000.00			15,000.00	15,000.00
Police Station Rents	3,084.00			3,084.00	3,084.00
Police Photo and Laundry Work and Fuel	1,750.00			1,737.93	1,737.93

Police Contingent	20,000.00	7,999.92	7,999.92
Police Patrol:—			
Brooms and Brushes		134.53	
Boarding Horses		3,357.50	
Coilage		39.25	
Clippings		71.00	
Dry Goods		8.10	
Electrical Work		748.35	
Forage		8,733.75	
Furniture		12.00	
Hardware		348.29	
Hose		22.50	
Horses		1,060.00	
Horseshoeing		2,169.40	
Harness		818.47	
Lamps and Repairs		120.34	
Oil		76.04	
Paints		62.11	
Rubber Goods		64.85	
Rents		120.00	
Veterinary Service		955.88	
Wire		218.93	
Wagon Repairing		1,849.35	
			20,990.64
Police Subsistence:—	6,000.00		
Drugs		25.87	
Dry Goods		617.41	
Fuel		411.75	
Furniture		71.42	
Hardware		476.22	
Ice		58.19	
Kitchen Furniture		58.47	
Lumber		77.04	
Provisions		3,942.89	
Paints		135.07	
Washing		113.81	
			5,988.14
Public Pound Maintenance:—	8,000.00		
Recorder and Assistants:—	12,900.00		
Recorder		3,600.00	
Recorder Deputies and Assistants		9,300.00	
Recorder Deputies and Assistants	27,000.00		
Recorder Policlks	6,000.00		
Recorder Extra Deputies		27,000.00	
			1,500.00
			6,005.30
			12,900.00
			27,000.00
			1,500.00

ACCOUNT.	Budget Appropriation & Allowance Provided by State Law,	Salaries.	Wages, Labor, Etc	Supplies, Material, & Contracts.....	Total.
Recorder Maps	250.00			137.50	137.50
Wiring and Lighting System for	1,100.00			1,081.29	1,081.29
Furniture for	800.00			800.00	800.00
Recorder and County Clerk, Typewriters for	2,400.00			2,071.81	2,071.81
Sheriff's Department:—	85,700.00	7,999.80			85,542.10
Sheriff		77,542.30			
Sheriff Deputies, Bailiffs, Guards, Etc.	5,000.00			39.86	39.86
Maintenance of Jails				45.00	45.00
Dry Goods				764.40	764.40
Exterminator				136.65	136.65
Fuel				1,442.18	1,442.18
Furniture				350.00	350.00
Forage				174.50	174.50
Horses				429.54	429.54
Horseshoeing				207.85	207.85
Hardware				12.50	12.50
Harness				1.68	1.68
Machinery				144.00	144.00
Paints and Oils				570.15	570.15
Removing Rubbish				480.00	480.00
Repairs to Wagons				113.50	113.50
Van					
Veterinary Service					
Sheriff's Dept. Subsistence of Prisoners, Jail No. 1	44,000.00			1,268.96	4,911.81
Bread				1.50	1.50
Blacksmith				295.83	295.83
Drugs				385.48	385.48
Dry Goods				382.25	382.25
Fuel					

Fruits and Vegetables.....
 Furniture.....
 Groceries and Provisions.....
 Hand Cuffs.....
 Hardware.....
 Harness.....
 Ice.....
 Incidentals.....
 Lime and Cement.....
 Meats, Fish and Poultry.....
 Milk and Cream.....
 Oil.....
 Rubber Goods.....
 Shoes.....
 Veterinary Service.....

Total Jail No. 1, \$10,983.82

Jail No. 2—
 Bread.....
 Drugs.....
 Dry Goods.....
 Forage.....
 Filters.....
 Fuel.....
 Fruits and Vegetables.....
 Groceries and Provisions.....
 Hardware.....
 Ice.....
 Meats, Fish and Poultry.....
 Milk and Cream.....
 Paints.....
 Rubber Goods.....
 Shoes.....

Total Jail No. 2, \$24,326.48

Jail No. 3—
 Bread.....
 Blacksmithing.....
 Cow.....
 Drugs.....
 Dry Goods.....
 Fruits and Vegetables.....
 Fuel.....
 Furniture.....
 Groceries and Provisions.....
 Harness.....
 Hardware.....
 Ice.....

973.04
 362.20
 3,795.44
 138.00
 326.60
 24.60
 44.66
 39.25
 17.05
 2,523.84
 289.35
 271
 13.50
 79.06
 20.50
 3,498.40
 271.82
 946.48
 2,287.50
 10.00
 805.55
 849.09
 8,359.05
 292.42
 63.88
 5,963.04
 513.40
 36.91
 80.45
 348.40
 768.69
 37.45
 65.00
 130.56
 276.93
 638.07
 561.30
 20.50
 3,630.14
 185.25
 227.34
 37.31

ACCOUNT.	Budget Appropriation & Allowance Provided by State Laws.....	Salaries.	Wages, Labor, Etc	Supplies, Material, & Contracts.....	Total.
Meats, Fish and Poultry.....					
Milk and Cream.....					
Shoes.....					
Total Jail No. 3, \$8,687.77					
Sheriff's Expenses.....	1,460.00			1,729.58	43,998.07
Boarding Horses.....				338.00	
Livery.....				41.65	
Horseshoeing.....				570.00	
Horse Clipping.....				350.00	
Harness.....				377.00	
Repairs to Van.....				5.00	
Veterinary Service.....				4.00	
				124.60	
				10.00	
Supervisors and Assistants:—					1,440.60
Supervisors.....	43,200.00	21,561.20			
Supervisors' Clerks and Assistants.....		18,000.00			
Supervisors, Sergeant at Arms.....		1,200.00			
Supervisors' Expert Finance Committee.....		2,400.00			
Board of Equalization Clerks.....	500.00	500.00			500.00
Public Utilities Committee.....	2,000.00			997.73	997.73
Typewriting Machines.....	500.00			500.00	500.00
Exhibit and St. Louis Exposition.....	8,000.00			8,000.00	8,000.00
Stationery for Public Officers.....	31,500.00			31,499.02	31,499.02
Rebinding Books.....	2,000.00			2,000.00	2,000.00

AUDITOR

Telephone Operators	1,800.00	1,800.00	1,800.00
St. Mary's Park Purchase	25,000.00	25,000.00	24,780.00
Tax Collector's Office:—			
Tax Collector	31,300.00	3,599.95	
Tax Collector, Cashier and Deputies		27,128.55	30,728.50
Tax Collector, Assistant Cashier and Searcher	3,600.00	3,410.00	3,410.00
Tax Collector Extra Clerks	32,400.00	30,659.25	30,659.25
Tax Collector, Buggy Hire	150.00	150.00	150.00
Tax Collector, Publishing Delinquent Tax List	2,000.00		1,906.14
Taxes Refunded (State Law)			2,064.00
Treasurer's Office:—			
Treasurer	14,800.00	3,999.96	
Treasurer Deputies		6,000.00	
Treasurer Clerk		1,200.00	
Treasurer Extra Clerk		3,600.00	
Urgent Necessities:—			
Abstracts of Title	36,000.00		310.00
Annual Dues of League of Municipalities			180.00
Cleaning Chinatown			4,854.07
Conveying Prisoners to State Institutions			381.00
Court Fees, Assessor vs. National Bank			767.00
Clerk of Board of Equalization		75.00	
Carriage Hire—Supervisors			18.00
Cartage—Supervisors			10.00
Engrossing—Supervisors			100.00
Elevator Repairs			256.30
Expert Testimony			1,308.50
Expenses of City Attorney to Washington			490.00
Expenses of City Attorney to Sacramento			28.35
Expenses of Supervisors to Sacramento			171.40
Expenses of Treasurer to Sacramento			30.00
Expenses of Chas. Fay to San Diego			135.00
Furniture			189.00
Hardware			94.51
Incidentals for County Clerk			121.90 ^o
Incidentals for Assessor			19.50
Incidentals for District Attorney			21.00
Incidentals for Recorder			4.50
Incidentals for Supervisors			69.50
Incidentals for Treasurer			302.45
			14,799.96

ACCOUNT.	Budget Appropriation & Allowance Provided by State Laws.....	Salaries.	Wages, Labor, Etc	Supplies, Material, & Contracts.....	Total
Judgments				21.00	
Law Books				301.17	
Lumber and Millwork				130.54	
Livery for Tax Collector				83.00	
Medical Expert				73.00	
Paints and Oils				55.98	
Plumbing				73.25	
Painting for Tax Collector				67.50	
Reporting Testimony				264.75	
Repairs to Boilers				57.00	
Rent of Filters				23.00	
Rent of Stations				55.35	
Safety Stations (Part Payment)				400.00	
Serving Subpoenas				326.60	
Sewer Construction—Public Works				892.60	
Sterilizer, Board of Health				1,750.00	
Subscription to Papers				81.00	
Testing Samples, Board of Health				10.00	
Telephone Guards				6.30	
Truck				108.00	
Transportation of Coin to Sacramento				1,029.45	
Wire				69.46	
Supplies—Res. No. 5986 of Supervisors (Dept. of Electricity)				475.00	
Supplies—Res. No. 5987 of Supervisors (Dept. of Electricity)				734.93	
Bricklayers—Public Works			1,422.00		
Carpenters—Public Works			56.00		
Hodcarriers—Public Works			598.00		
Locksmithing—Public Works			98.50		
Labor—Public Works			1,530.45		

AUDITOR

Hydrantmen—Public Works	75.00			
Pavers—Public Works	260.00			
Repairs on Bridge—Public Works	60.00			
Roofing—Public Works	360.00			
Teaming—Public Works	2,319.50			
Sewer Cleaning—Public Works	2,007.00			
Side sewer men—Public Works	67.75			
Grading 49th Avenue—Public Works		125.00		
Hospital Supplies		3,465.05		
Hospital Labor			19.50	
Hospital Repairs			63,999.84	30,877.72
Water for Municipal Purposes (Except Schools)	64,000.00			63,999.84
Water Investigation	700.00			638.25
Surplus Account, Board of Health				714.07
Previous Year Accounts:—				
1899—1900 Fiscal Year			5,500.00	5,500.00
1902—1903 Fiscal Year			450.00	450.00
1903—1904 Fiscal Year			51,909.00	51,909.00
Total		2,484,644.82	1,198,802.77	3,872,145.91
Board of Public Works:—				
General Office	12,000.00			
Secretary	1,800.00	11,966.55		13,766.55
Assistants	11,700.00	1,800.00		
Bookkeepers		3,800.00		
Clerks		3,673.32		
Stenographers		3,225.00		
Messenger		960.00		
Bureau of Public Buildings:—				
Stenographer	1,500.00	1,500.00		11,658.32
Bureau of Engineering:—				
City Engineer	5,000.00	4,999.92		1,500.00
City Engineer Assistants	50,520.00			4,999.92
City Engineer Chief Assistants		3,400.00		
City Engineer Assistant Engineers		9,703.95		
City Engineer Surveyors		11,087.85		
City Engineer Draughtsmen		7,444.10		
City Engineer Field Assistants		15,825.75		
City Engineer Stenographers		1,641.70		
City Engineer Labor			45.00	
City Engineer Inspectors			73.80	
City Engineer Blueprints				
Brooms and Brushes	1,780.00			
Chemicals				
Hardware				
			193.43	49,222.15
			31.84	
			17.37	
			41.57	

AUDITOR

ACCOUNT.	Budget Appropriation & Allowance Provided by State Laws.....	Salaries,	Wages, Labor, Etc	Supplies, Material, & Contracts.....	Total.
Instruments and Repairs					
Incidentals				298.81	
Livery				676.45	
Lumber				317.00	
Maps				41.00	
Printing				40.00	
Teaming				13.98	
Testing				15.00	
Chemical Laboratory	2,700.00			22.00	1,708.45
Chemist and Assistant		2,622.75			2,622.75
Draughtsmen, City Map	4,500.00	4,167.31			4,167.31
Bureau of Light and Water					
Inspector	1,800.00	1,800.00			1,800.00
Wellsbach Supplies	1,750.00			1,751.52	1,751.52
Livery	420.00			420.00	420.00
Bureau of Streets					
Prisoners Guards	2,340.00	2,340.00			2,340.00
Bureau of Streets, Office	30,900.00				
Deputies		4,500.00			
Superintendents		2,625.00			
Inspectors		9,225.00			
Clerks		9,543.35			
Stenographers		2,175.00			
Messenger		82.50			
Watchmen		2,700.00			
Corporation Yard	7,680.00				
Keepers		4,005.00			
Stonemasons			1,275.00		1,275.00
Carpenters			2,399.70		2,399.70
Maintenance of Bridges	8,100.00				
Engineers		3,600.00			

AUDITOR

Watchmen Division of Architecture Architect Draughtsmen Inspection and Clerks Inspectors Clerks Supplies and Livery Blueprints and Tracing paper Cabinets Livery Lumber Instruments (Mathematical) Subscription to Papers Hardware	3,000.00 3,300.00 8,425.00 1,475.00 2,700.00	4,012.50	7,612.50 3,000.00 3,300.00 9,900.00 564.93 60.00 1,752.00 55.25 132.16 67.00 32.71 2,664.05
Cleaning and Maintaining Hall of Justice, City Hall Head Janitor Head Janitor Chief Assistants Engineers Fireman Elevator Conductors Janitors Watchman	1,500.00 2,880.00 2,400.00 1,080.00 4,075.50	34,088.55 1,080.00	47,104.05
Cleaning and Sprinkling Streets Superintendent of Sweepers Foreman Labor (Sweepers) Inspectors Carpenter Painters Teaming Brooms and Brushes Hardware Fuel Hose Incidentals Livery Machinery Oil Rent Refuse Barrels Water Wagon Repairs	1,625.00 1,625.00 19,887.00 117,758.00 45.50 119.95 160.11 54,410.38	1,625.00 1,625.00 19,887.00 117,758.00 45.50 119.95 160.11 54,410.38	1,856.38 506.76 4.95 10.15 20.25 1,932.00 6,288.13 52.65 420.00 2,465.20 6,000.00 170.55
215,000.00			213,732.96

ACCOUNT	Budget Appropriation & Allowance Provided by State Laws.....	Salaries.	Wages, Labor; Etc	Supplies, Material, & Contracts.....	Total.
Repairs to Street on Water Front	5,000.00				
Carpenters			735.20		
Labor			1,146.85		
Teaming			30.63		
Lumber					
Hardware.....					
Repairs to Basalt and Cobble Streets	50,000.00				
Pavers			10,816.40		
Rammers			9,130.00		
Carpenter			11.25		
Inspector			28.00		
Plumbers			16.00		
Stone Cutters			250.00		
Foremen.....			452.00		
Cement Finishers.....			850.00		
Caretaker of Fountains.....			844.25		
Labor			7,624.65		
Blacksmithing				809.54	
Cordage				47.76	
Cartage.....				63.34	
Cement				183.05	
Gravel				1,904.80	
Flags(Signal)				74.83	
Hardware.....				1,809.10	
Hose				15.90	
Livery				434.00	
Lumber				552.01	
Oil				476.15	
Paints				80.12	
Paving				47.46	
					4,974.84

Teaming.....		13,275.39	
Wagon Repairs.....		197.20	49,993.20
Repairs to Bituminous and Asphalt Streets.....	40,000.00		
Patching Streets.....		14,029.74	
Paving Streets.....		20,148.97	
Livery.....		424.00	
Teaming.....		1,140.30	
Inspecting.....		16.00	
Labor.....		30.00	35,789.01
Repairing and Cleaning Sewers.....	85,000.00		
Bricklayers.....		6,819.00	
Hodcarriers.....		4,600.50	
Foremen.....		2,622.25	
Carpenters.....		649.50	
Cement Finishers.....		946.00	
Inspector.....		20.00	
Hydrantmen.....		2,223.15	
Laborers.....		18,701.75	
Sewer Cleaners.....		11,245.00	
Side Sweremen.....		61.25	
Bituminous Pavement.....			260.16
Brick.....			1,174.06
Bag.....			187.47
Castings.....			2,125.15
Cement.....			862.65
Chemicals.....			20.55
Cordage.....			476.24
Crossings.....			646.00
Filling in Bay.....			839.00
Filling in Trenches.....			347.50
Hardware.....			1,026.40
Hose.....			629.55
Iron and Steel.....			30.03
Lamps.....			197.00
Livery.....			315.00
Lumber.....			2,062.81
Pints and Oils.....			229.25
Power.....			15.00
Reconstruction.....			958.05
Rubber Goods.....			1,413.00
Sewer Pipe.....			2,365.90
Signal Flags.....			34.92
Teaming.....			20,548.90

ACCOUNT.		
Tools Repaired.....		783.00
Tapers		2.62
Maintenance:—		
Labor.....		377.86
Blacksmithing.....		136.47
Brooms and Brushes.....		4,157.35
Bridge Repairs.....		30.60
Brick and Cement.....		88.64
Castings.....		123.75
Carpenter Work.....		51.53
Chemicals.....		1.48
Cordage.....		119.67
Dry Goods.....		2.50
Elevator Repairs.....		5,529.45
Fuel.....		14.20
Glass.....		2,028.19
Hardware.....		55.83
Hose.....		33.79
Incidentals.....		65.50
Inspecting Elevators.....		64.90
Ice.....		15.00
Mantels.....		1,795.16
Janitorial Supplies.....		132.80
Leather.....		910.00
Livery.....		693.29
Lumber.....		62.57
Mechanical Instruments.....		42.51
Oil.....		41.23
Paint.....		100.31
Printing.....		
Budget Appropriation & Allowance Provided by State Laws.....		19,820.00
Salaries.....		
Wages, Labor, Etc		235.00
Supplies, Material, & Contracts.....		783.00
Total.		84,938.61

AUDITOR

Plumbing			16.95	
Polish			1.65	
Rent of Corporation Yard			1,280.00	
Rubber Goods			347.70	
Roofing			40.00	
Removing Rubbish			370.00	
Sewer Pipe			23.45	
Teaming			54.00	
Telephone Guards			27.00	
Typewriting Repairs			14.10	
Towel Service			330.00	
Water			9.00	19,433.43
Repairs to Buildings	8,000.00			
Alms House, Wiring, etc				
Carpenters		2,913.50		
Painters		1,214.50		
Wiremen		857.80		
Locksmithing		100.00		
Lumber			1,536.50	
Hardware			239.55	
Paints			529.21	
Paving Floor			304.00	
Tinning			119.50	
Wire			184.04	7,998.70
Alms House Plumbing				
Carpenter		93.00		
Plumbers		1,004.45		
Plumbing			898.45	1,995.90
County Clerk—Office Repairs	1,561.00			
Carpenter		910.00		
Locksmith		267.00		
Cartage			10.10	
Hardware			164.29	
Locksmithing			11.40	
Glass			32.90	
Lumber			154.36	
Paints			10.55	1,560.60
Emergency Hospital Repairs	720.00			
Carpenter		130.00		
Plumbers		62.00		
Painter		211.00		
Glazing			81.00	

ACCOUNT.	Budget Appropriation & Allowance Provided by State Laws.....	Salaries.	Wages, Labor, Etc	Supplies Material, & Contracts.....	Total.
Hardware.....				28.45	719.65
Millwork.....				21.00	
Marble.....				92.00	
Paints.....				70.23	
Plumbing.....				24.00	
Fire Department—Repairs to Buildings	15,000.00				
Carpenters.....			4,511.25		
Painters.....			1,044.00		
Plumbers.....			3,562.50		
Tiners.....			684.00		
Locksmiths.....			100.00		
Plasterers.....			132.00		
Side Sewermen.....			113.93		
Cement.....				20.00	
Chemicals.....				41.44	
Chimneys.....				60.00	
Cartage.....				4.90	
Cordage.....				8.50	
Fuel.....				20.25	
Glazing.....				331.51	
Hardware.....				537.81	
Incidentals.....				58.80	
Janitorial Supplies.....				23.40	
Lumber.....				3,175.41	
Marble.....				35.50	
Paper.....				58.55	
Paving.....				16.98	
Plumbing.....				249.56	
Paints.....				162.19	
Sewer Pipe.....				8.10	

Hall of Justice and Morgue	1,500.00			
Locksmith				100.00
Plumber				264.00
Carpenter		20.00		
Cartage				12.75
Chemicals				13.07
Dry Goods				3.50
Furniture				21.00
Glazing				145.50
Hardware				519.27
Incidentals				24.05
Locksmithing				50.57
Lumber				15.25
Paints and Oils				34.75
Paper				17.33
Plumbing				118.00
Repairs to Elevator				69.20
Repairs to Clocks				69.50
Hall of Records—Foundation	1,500.00			
Bricklayer			18.00	2.00
Hod-carriers			104.00	109.80
Plasterer			150.00	2.50
Stone Cutters			1,041.00	56.16
Plumbers			16.00	499.38
Cement				
Chemicals				
Paints				
Tools				
Hall of Justice—Machinery	500.00			
City and County Hospital Repairs	10,000.00			
Bricklayers			111.00	
Hod-carriers			108.00	
Carpenters			2,199.40	
Painters			1,742.75	
Plasterer			90.00	
Tinners			144.50	
Brick				
Brushes				
Cartage				
Cement				
Chimney Work				
Glazing				
Gas Service				
Hardware				
Housemoving				
Incidentals				
				178.00
				14.03
				5.00
				166.47
				85.00
				226.14
				78.65
				488.77
				625.00
				13.55

1,499.46
499.38

ACCOUNT.	Budget Appropriation & Allowance Provided by State Laws.....	Salaries.	Wages, Labor, Etc	Supplies, Material, & Contracts.....	Total.
Lumber.....				2,700.33	
Oil.....				39.61	
Paints.....				461.73	
Plating.....				69.00	
Sand.....				97.20	
Wire.....				355.20	9,998.73
City and County Hospital Plumbing					
Plumbers.....	5,000.00		1,450.75		
Tinners.....			441.50		
Plasterers.....			303.00		
Hod-carriers.....			110.00		
Carpenters.....			238.50		
Marble.....				19.00	
Plumbing Supplies				1,288.69	
Sterilizer.....				1,148.00	
Jails and Prisons	10,000.00				4,999.44
Carpenters.....			778.50		
Painters.....			778.50		
Plumbers.....			2,187.00		
Plasterer.....			1,528.00		
Locksmith.....			54.00		
Tinner.....			200.00		
Brass Material.....			25.00		
Cement.....				40.09	
Carriage.....				61.70	
Dry Goods.....				33.75	
Glazing.....				87.95	
Hardware.....				23.05	
Incidentals.....				953.91	
Iron Pipe.....				46.30	
				796.31	

AUDITOR

Lumber.....	1,185.62			
Locksmithing.....	79.98			
Lamps.....	43.08			
Paints.....	972.86			
Plumbing.....	674.53			
Repairs to Clocks.....	43.50			
Roofing.....	100.00			
Rubber Goods.....	8.00			
Wall Paper.....	59.00			9,982.13
Police Department Houses—Repairs.....	5,000.00			
Carpenter.....	1,200.25			
Painter.....	761.75			
Cement Finisher.....	70.00			
Plumber.....	27.50			
Castings.....	7.50			
Dry Goods.....	29.60			
Glazing.....	110.89			
Hardware.....	383.85			
Incidentals.....	3.75			
Lumber.....	1,397.28			
Locksmithing.....	27.50			
Paints.....	174.16			
Plumbing.....	794.26			
Rubber Goods.....	2.60			
Tinting and Painting Assessor's Office.....	800.00			4,990.89
Painters.....	874.05			874.05
Tinting and Painting Health Office.....	20,000.00			
Carpenters.....	738.75			
Painters.....	1,065.00			
Hardware.....	77.75			1,999.57
Paints.....	118.07			
Tinting and Painting, Recorder's Office.....	750.00			749.07
Painting.....	1,500.00			1,494.33
Interior Varnishing—City Hall.....	1,500.00			
Painting, Etc.....	2,500.00			2,499.22
Exterior Varnishing Doors, Etc., City Hall.....	2,500.00			
Painting.....	2,499.22			436.92
Permanent Improvements—				
Buena Vista Avenue Sewers.....	5,000.00			1,352.00
Cliff House Grade Parapet.....	4,500.00			4,528.00
Dolores Street Park.....	5,000.00			1,483.00
Driveway 18th Street Warehouse.....	1,500.00			15.84
Fire Engine House, Richmond.....	10,000.00			
Fourth Street Widening, Market to Berry Street.....	75,000.00			20,588.23
Fulton Street Opening Sewers to Highway.....	15,000.00			494.50

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ACCOU'NTS.	Budget Appropriation & Allowance Provided by State Laws.....	Salaries.	Wages, Labor, Etc	Supplies, Material, & Contracts.....	Total.
Alamo Square, Sidewalk—Improvement of.....	2,750.00			1,864.76	1,864.76
Corbett Avenue—Improvement of.....	2,000.00			1,999.36	1,999.36
Ocean Avenue—Improvement of.....	2,500.00			2,498.25	2,498.25
Point Lobos Avenue—Improvement of.....	2,000.00			1,995.00	1,995.00
San Bruno Avenue—Improvement of.....	5,000.00			4,999.20	4,999.20
San Jose Avenue—Improvement of.....	2,000.00			1,998.48	1,998.48
View Avenue—Improvement of.....	5,000.00			499.50	499.50
Extension of 19th Avenue to Ocean	5,000.00			4,999.48	4,999.48
Oil Plants, City Hall and Hall of Justice	2,400.00			7.68	7.68
Paving Mission Street, Onendago Ave. to County Lane.....	80,000.00			156.00	156.00
Paving "H" Street from 7th Avenue West ward.....	45,000.00			617.40	617.40
Poles for Decorating Market Street.....	3,500.00			3,500.00	3,500.00
Safety Station, Market and Powell Streets	750.00			750.00	750.00
SUNDRY FUNDS.					
Advertising Redemptions.....				7,235.50	7,235.50
Duplicate Tax Refunded.....				7,608.12	7,608.12
House Moving—Department of Electricity Refund.				948.13	948.13
House Moving—Department of Public Works Refund				3,430.00	3,430.00
Firemen's Relief and Pension Fund	20,000.00				
Pensions for.....					
Secretary's Salary		600.00		24,345.98	24,345.98
Police Relief Fund—Receipts of General Fund:—			100.00		
Medical Examinations.....					

Pensions	62,854.78	62,854.78
Secretary	468.54	468.54
Teachers' Institute:—		
Books, Etc.....	600.00	
Library Fund—1 per cent on Tax Levy	75,000.00	
Fines, Etc.....	3,283.45	
Librarian.....	1,800.00	
Librarian, Chief Assistant	3,586.95	
Secretary and Assistant	2,110.65	
Curators.....	3,574.10	
Cataloguers.....	659.80	
Elevator Attendant	922.50	
Expressman	898.75	
Special Officer.....	364.05	
Repairer	2,896.60	
Messengers	10,331.10	
Office Assistants	893.45	
Substitutes	931.60	
Keepers of Branch Stations (Rents)	2,084.35	
Employees of Branch No. 1.....	1,777.95	
Employees of Branch No. 2.....	1,455.55	
Employees of Branch No. 3.....	975.00	
Employees of Branch No. 4.....	1,922.05	
Employees of Branch No. 5.....	1,828.45	
Binding		3,877.83
Books, Periodicals, Etc		13,698.89
Cabinets		206.40
Cards		165.00
Clocks and Repairs		5.75
Dues, Annual		8.00
Expressage		40.00
Electrical Material		86.26
Electrical Power		27.52
Elevator Repairs		46.14
Expenses of Librarian Visiting Eastern Libraries		299.79
Frames		8.35
Fuel		251.00
Furniture		413.58
Glazing		83.50
Hardware		605.40
Incidentals		185.55
Insurance		192.21
Janitor's Supplies		

63,554.78

468.54

ACCOUNT.		
Lamps.....	57.65	
Light	4.81	
Lumber and Millwork.....	126.40	
Mantels	240.73	
Paper	116.88	
Photos.....	32.50	
Plumbing	59.40	
Painting	235.60	
Printing.....	2,020.83	
Rents.....	1,272.00	
Rubber Goods	34.74	
Stationery.....	197.62	
Subscription to Papers	312.00	
Survey.....	4.00	
Towel Service.....	18.00	
Typewriting Repairs	64.00	
Telephone Service	21.40	
Water	97.35	
Wire.....	108.00	67,263.48
Total.		
Supplies, Material, & Contracts.....		
Wages, Labor, Etc		
Salaries.		4,200.00 2,100.00 1,500.00 840.00 2,450.05 1,129.00 960.00
Budget Appropriation & Allowance Provided by State Laws.....		350,000.00 1,046.81 31,118.40
Park Fund—Budget Appropriation 7 per cent of Tax Levy and Revenues		
Surplus of Previous Years		
Other Revenues		
Superintendent		
Secretary		
Accountant.....		
Clerk		
Curators		
Draughtsman		
Electrician		

Taxidermist	748.55	140.25
Apprentices	1,220.00	428.00
Blacksmith	3,594.20	208.10
Carpenters	38,541.25	1,243.75
Foremen	4,631.30	1,130.03
Engineers	14,489.50	34.40
Gardeners	134,678.30	167.99
Labor	324.40	312.85
Machinist	80.45	475.84
Oilier	2,738.75	2.65
Painters	888.75	4,309.28
Plumber	4,002.50	201.80
Stableman	40.00	2,501.91
Stenographer	583.50	127.46
Stonemason	11,020.35	100.40
Teamsters	6,158.10	833.00
Employees' Children's Playground.....	3,984.90	198.53
Employees of Museum	3,297.85	207.57
Employees of Lavatories	2,221.90	382.85
Water Works		272.95
Advertising.....		97.21
Auto Number.....		1,000.00
Animal Food		312.75
Birds and Animals		1,550.00
Bituminous Paving		13,662.49
Blacksmithing		2,635.87
Brooms and Brushes.....		
Brass Supplies		
Boiler		
Castings		
Clay		
Cordage		
Confections and Soda		
Crockery and Glassware		
Cartage		
Cabinets		
Drugs and Chemicals		
Dry Goods		
Erecting Dutch Cottage		
Erecting Japanese Teahouse		
Electrical Suppl. s.....		
Expense for Information Abroad		
Freight		
Fountain		
Forage		
Fuel		

1,200.00

ACCOUNT.	Budget Appropriation & Allowance Provided by State Laws.....	Salaries	Wages, Labor, Etc	Supplies, Material, & Contracts.....	Total.
Furniture				107.04	
Hardware				4,382.95	
Harness				339.38	
Hose				788.09	
Horses				2,150.00	
Horse Clipping				36.00	
Ice				284.86	
Incidentals				1,040.25	
Insurance				300.00	
Iron Pipe				5,045.99	
Iron Work				458.12	
Lamps.....				22.20	
Lime and Cement				598.58	
Light				418.10	
Loam				1,569.86	
Leather				23.85	
Lumber				4,239.85	
Machinery.....				3,084.31	
Milk and Cream				1,024.87	
Musical Concerts				3,506.55	
Oils				6,433.53	
Paints and Glass				1,269.96	
Paper.....				205.62	
Pipe Covering				104.01	
Plants and Seeds				2,478.97	
Plumbing				10.50	
Pottery				58.50	
Provisions				6,209.54	
Powder				86.65	
Pumps and Repairs				1,234.15	
Rent of Filters				49.50	

Rent of Piano	6.00			
Repairs to Register	4.00			
Rock	378.13			
Rubber Goods	327.21			
Sewer Pipe	289.31			
Stationery and Printing	603.46			
Tearing	671.00			
Tennis Nets	77.90			
Transportation of Sweepings	15,726.60			
Typewriting Repairs	23.45			
Type	23.69			
Tank	10.52			
Veterinary Service	133.25			
Water	13,837.05			
Wagon Repairs	765.53			
Washing	41.25			
Wire	1,574.54			
Well Boring	804.50			
Tearing Up Street Fund:—				
1903-04 Account—				
Balance Due.....				3,704.64
Repairs to Bitumen				144.50
1904-05 Account—				
Inspector				
Foremen	1,800.00			
Side Sewer Men	849.00			
Pavers		38,368.55		
Rammers		1,380.75		
Bricklayers		1,104.50		
Hod-carrier		109.15		
Repaving		14.50		
Teaming			4,174.00	
Balance Refunded			4,500.97	
Livery			22,478.78	
Lumber			383.00	
Hardware			15.29	
Castings			27.60	
Brick			91.81	
			60.90	
Special Permit Fund:—				
1902-03 Account—				
Space Permits				140.00
Sub-Sidewalks				260.00
1903-04 Account—				
				79,207.44
				363,053.70

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ACCOUNT.	Budget Appropriation & Allowance Provided by State Laws.....	Salaries.	Wages, Labor, Etc	Supplies, Material, & Contracts.....	Total.
Space Permits				19,870.00	
Sidewalks				1,610.00	
1904-05 Account—					
Space Permits				41,825.00	
Sidewalks				10,190.00	
Sub-Sidewalks				2,460.00	76,355.00
Special Badge Fund—Badges Redeemed				232.00	232.00
Unapportioned Fee Fund—Refund					
Fees				9,898.00	
Mileage				633.75	
Legal Services				3,467.15	14,018.90
Sinking Fund Park Improvement Bonds, 1874-75:—					
Bonds Redeemed.....				4,000.00	4,000.00
Interest Park Improvement Bond, 1874-75				30.00	30.00
Coupon Account					
Robinson Bequest Interest Fund:—					
Children's Day Home				200.00	
Associated Charities				100.00	
St. Vincent de Paul Society				400.00	
Elmhurst Open Air Fund.....				400.00	
Nursery for Homeless Children				100.00	
Children's Hospital				450.00	
Little Sisters Infant Shelter.....				300.00	
California Women's Hospital.....				100.00	2,050.00
Windel Bequest Fund.....				1,115.15	1,115.15

Hospital School Bond Tax:—					491,903.60	491,903.60
Refunded \$276,129.11.....						
Public Building Golden Gate Park and Presidio Bond Ext. Fund:—					16,602.93	16,602.93
Steel Plates.....					187,792.50	187,792.50
Purchase of Land.....						
Public Building, Mission Park Bond Fund:—					291,370.00	291,370.00
Purchase of Land.....						
Public Building School Bond Fund:—					67,038.75	67,038.75
Purchase of Land.....						
Public Building Library Bond Fund:—					269,037.50	269,037.50
Purchase of Land:—						
Surplus of 1903-04:—					2,684.46	2,684.46
Demands Redeemed.....					680.17	680.17
Public Building Sewer Construction Account:—					177.35	177.35
Demand Redeemed.....						
Public Building Street Improvement Account:—						
Demands Redeemed.....						
Total.....			\$60,260.95	\$274,321.50	\$1,708,221.53	\$2,042,803.98
SCHOOL DEPARTMENT.						
Amount Available from Surplus of 1903-04.....	67,383.28					
Amount Allowed from surplus of 1904-05.....	84,870.85					
Amount of Budget Allowance 1904-05.....	1,253,000.00					
Total Amount for School Purposes.....	1,405,254.13					
Object and Purpose.						
Superintendent and Deputies.....	13,599.96					
Directors.....	11,862.73					
Secretary and Assistants.....	10,031.10					
Teachers.....	1,077,194.05					
Janitors.....						
Advertising.....				58,036.20		
Apparatus.....					108.20	
Alterations and Additions to School Houses.....					7,061.37	
Black Boards.....					40,000.00	
Black Board Erasers.....					2,690.79	
Books (Indigent).....					420.75	
Books (Supplementary).....					1,769.16	
					8,668.72	

ACCOUNT.	
Total.	
Supplies, Material, & Contracts.....	1,816.39 327.88 236.50 282.00 1,084.90 51.19 18,898.72 6,298.85 85.78 1,950.45 1,306.10 4,117.74 46.04 2,343.02 3,200.06 14.00 6,123.91 1,560.10 5,703.60 94.32 516.47 1,647.22 482.31 329.64 2,502.14 197.00 474.92 3,718.41 6,331.15 1,587.41 9,457.50
Wages, Labor, Etc	
Salaries.	
Budget Appropriation & Allowance Provided by State Laws.....	
ACCOUNT.	Carfare and Incidentals Cement and Concrete Work Cartage Cleaning Vaults Draughting Blue Prints Drums and Repairs Furniture Fuel Flags Grading Glass and Glazing Hardware and Electrical Material Ice and Filters Janitorial Supplies Laboratory Supplies Loam Light Livery Lumber and Millwork Medals Miscellaneous Manual Training Modeling and Tools Patent Chimneys Paints and Oils Painting Signs, Etc. Pipe Printing Portable School Houses Plumbing Material Rents

School Sites				3,935.00	
Stationary				9,913.76	
Subscriptions				129.05	
Tinting Rooms				1,138.54	
Telephonic and Telegraphic Service				161.96	
Typewriter Repairs				18.25	
Vaccine Points				79.40	
Water				13,925.95	
Census Marshals	6,726.70				
Cabinet Makers	2,649.00				
Carpenters	8,587.75				
Inspectors	3,130.00				
Labor	8,788.30				
Locksmith	1,292.00				
Painters	4,677.50				
Plumbers and Assistants	4,360.25				
Plasterers	429.00				
Playground (Keeping)	4,763.75				
Storekeeper's Assistants	1,375.00				
Shop Employers	5,678.65				
Tinners	2,321.00				
Teamsters	1,503.00				
Teachers' Annuity Fund	2,954.00				
Total	\$1,112,687.84	\$117,272.10	\$172,856.62		\$1,402,816.56

GENERAL SUMMARY OF DISBURSEMENTS OF FUNDS

General Fund—Miscellaneous					
General Fund—Public Works					
Sundry Funds—Park, Library Bonds, Etc					
School Fund					
Total Segregations					
Salaries	\$2,484,644.82				
	164,197.05				
	60,260.95				
	1,112,687.84				
Wages	\$188,698.32				
	347,506.75				
	274,321.50				
	117,272.10				
Contracts, Material and Miscellaneous	\$1,198,802.77				
	228,362.04				
	1,708,221.53				
	172,856.62				
Total	\$3,872,145.91				
	740,065.84				
	2,042,803.98				
	1,402,816.56				
Total	\$8,057,832.29				

DETAILED SUMMARY OF EXPENDITURES.

Abstracts	\$ 314.00
Account of 1899-1900	5,500.00
Account of 1902-1903	450.00
Account of 1903-1904	54,593.46
Advertising	31,127.97
Additions and Alterations to School Buildings	41,138.54
Annual Dues	188.00
Apparatus	7,061.37
Automobiles	3,386.69
Auto Numbers	428.00
Badges and Medals	126.75
Ballots	991.50
Birds and Animals	1,243.75
Blackboards	3,111.54
Blacksmithing and Tools	2,062.46
Bituminous Repairs	15,897.18
Boat Hire	32.00
Boilers and Repairs	620.77
Boarding Horses	5,102.50
Books, Periodicals, Etc	24,605.31
Bookbinding	5,877.83
Brass Material	908.21
Brick	2,010.21
Brooms and Brushes	3,102.52
Blue Prints	808.36
Blue Stone	13.38
Burial of Indigent Dead	4,396.50
Cabinets	1,099.40
Carriage Hire	188.00
Castings and Forgings	3,550.92
Cartage	666.89
Cement and Lime	2,367.65
Chimney Repairs	493.14
City Directories	525.00
Clay	4,309.28
Cleaning Vaults	282.00
Cleaning Chinatown	14,922.51
Collation	33.35
Clocks and Repairs	121.15
Confections	2,501.91
Conveying Prisoners to State Institutions	381.00
Contributions and Fines of Officers	18,706.33
Contingent Expenses for Public Officers	11,599.92
Cordage	1,049.54
Court Orders	4,475.83
Crockery and Glassware	607.66
Decorations	117.50
Destroying Animals	6,005.30
Defense of Suit Spring Valley Water Co	24,571.50
Distribution of Bequest by Mayor	3,165.15
Draughting	1,084.90
Drugs and Chemicals	17,954.55
Dry Goods and Clothing	9,047.46
Drums and Repairs	51.19
Electric Material	13,030.34
Electric Power	495.72
Elevator Repairs	374.14
Engrossing	145.00
Exhibit and St. Louis Exposition	8,000.00
Expense for Information Abroad	1,000.00
Expense of Librarian at Eastern Conventions	299.79
Expense of Supervisors at Sacramento and San Diego	336.40
Expense of City Attorney at Washington, D. C	518.35
Examination into Public Utilities	997.73
Experting Books	285.00
Expense of Assessor's Field Deputies	986.05
Expert Testimony	1,383.50
Fees of Officers	10,665.00
Fire Extinguishers	57.00
Forage	67,468.69
Fountain	1,550.00

DETAILED SUMMARY OF EXPENDITURES—Continued.

Fuel	33,769.44
Fireworks	800.00
Pitting up Stores for Election	1,968.21
Freight	496.75
Filling in Trenches	686.50
Fruits and Vegetables	4,305.55
Flags (Signal)	211.49
Furniture	38,123.44
Grading and Curbing	2,075.45
Gravel and Rock	1,939.80
Groceries, Etc.	61,157.64
Glass and Glazing	2,279.49
Harbor Police Station (Completion)	15,000.00
Hardware	20,124.84
Harness and Repairs	3,376.99
Horse Keeping	1,567.45
Horses	15,169.50
Horse Clipping	94.25
Horse Shoeing	10,409.20
Hose	5,482.80
Heaters	175.00
House Moving	625.00
Hydrants, Set and Reset	11,916.25
Incinerating Ballots	30.00
Ice	1,612.44
Incidentals	6,510.34
Instruments—Mathematical	493.54
Instruments—Surgical	2,122.99
Insurance	485.55
Inspecting Elevators	81.53
Interment of Ex-U. S. Soldiers and Sailors	3,250.00
Iron and Steel	8,717.59
Janitor's Supplies	4,353.79
Judgments	21.00
Kitchen Furniture	60.36
Laboratory Supplies	3,708.62
Lamps and Repairs	1,215.82
Law Books	301.17
Leather and Findings	791.48
Legal Services	3,467.15
License Blanks, Tags, Etc.	1,918.75
Lighting with Gas and Electricity	326,612.87
Livery	12,624.90
Loam	1,583.86
Locksmithing	169.45
Lumber and Millwork	30,283.02
Machinery and Repairs	10,535.90
Mantels and Fixtures	2,017.00
Manuel Training	2,646.00
Marble	146.50
Maps and Charts	177.50
Maintenance of Minors	55,257.89
Meats, Poultry and Fish	30,656.94
Medals	94.32
Metal Polish	73.05
Memorial Day—Observance of	499.65
Money Refunded	117,707.31
Mileage	653.75
Milk and Cream	13,043.65
Municipal Reports	2,569.30
Music	4,547.55
Newspaper Clippings	80.45
Oil	11,355.39
Oil Tank	20.00
Painting	4,824.14
Paints	9,021.29
Paper	484.13
Paving and Re-paving	25,420.22
Parks Bond Redeemed	4,000.00
Park Coupons Redeemed	30.00
Pensions	87,200.76

DETAILED SUMMARY OF EXPENDITURES—Continued.

Photographing	188.50
Photographing Material	1,737.93
Pipe Covering	256.68
Plants and Seeds	2,545.32
Plumbing	5,900.33
Pottery	127.50
Powder	110.35
Portable Schools	6,331.15
Printing	18,792.74
Printing Transcripts and Briefs	3,729.60
Publishing Delinquent Tax List	1,906.14
Publishing Law and Motion Calendar	3,300.00
Pump	1,234.15
Purchase of Land	843,953.75
Purchase of Voting Machines	26,500.00
Permanent Improvements	58,612.50
Public Building, Sewer Construction Account	680.17
Public Building, Street Improvement Account	177.35
Public Building, Hospital and School Bonds Tax of 1902 Refunded	491,903.60
Recovery of Bodies from the Bay	370.00
Rent of Filters	77.50
Rent of Premises	24,561.55
Roofing	140.00
Reporting Testimony	1,565.75
Rock	424.88
Rubber Goods	4,609.09
Repairs to Engines	333.95
Repairs to Voting Machines	966.50
Repairs to Bridges	4,157.35
Refuse Barrels	2,465.20
Salaries	3,821,790.66
Wages	927,798.67
Scavenger Work	4,233.75
Serving Subpoenas	326.60
Sewer Pipe	2,686.76
Sewer Construction	1,850.65
Safety Station	400.00
Stationery—Postage	48,667.96
Storage	95.10
Steel Engravings	16,602.93
Sterilizer	2,898.00
Signal Boxes	18.00
Springs	378.55
Surplus	714.07
Subscription to Papers	632.75
Subsistence of Prisoners—Jails	43,998.07
Taxes Refunded	2,064.00
Teaming	40,215.56
Tinning	256.02
Telephone and Telegraph Service	258.36
Transportation of Coin	1,029.45
Transportation of Sweepings	15,726.60
Tobacco	991.64
Typewriter Supplies	244.84
Typewriting Machines	2,590.06
Veterinary Service	1,322.38
Vehicles	1,896.00
Ward Supplies (Hospital)	4,784.78
Wagon Material	4,501.21
Washing and Towel Service	1,902.76
Water	97,917.99
Water Investigation Expenses	638.25
Well-boring	804.50
Wines and Liquors	2,657.19
Wiring and Lighting System	1,478.63
Wire	9,889.66
Witness Expenses	7,961.30
X-Ray Repairs	594.77
Total	\$ 8,057,850.29

CONTRACTS UNDER CONSTRUCTION AND MONEYS SET ASIDE BY
 AUDITOR AND APPROPRIATIONS CARRIED
 OVER TO 1905—1906.
 1903-04.

Pest House Lands	\$2,000.00	
Pest House Constructoin.....	5,000.00	
Smallpox Hospital	7,500.00	
City Street Improvement Co., Pest House.....	305.00	
Balance Pest House Appropriation	2,643.39	
Rights of Way	585.00	
Department of Election, Salaries held up	1,671.00	
Health Department " "	2,200.00	
Hospital, Salaries held up	708.33	\$22,612.72
1904-05.		
Twin Peaks Appropriation	\$150,000.00	
C. S. Harney, paving "H" Street Contract.....	7,810.01	
City Street Imp. Co., " " "	27,990.10	
Owen McHugh, paving " " "	7,810.01	
Balance Appropriation " " "	772.48	
Barber Asphalt Paving Co. Mission St	11,086.12	
Barber Asphalt Paving Co. " "	64,816.24	
Balance Appropriation	3,941.64	
Widening Fourth Street	50,000.00	
Owen McHugh, Opening Fulton Street	10,747.92	
Owen McHugh " " "	990.00	
L. R. Fulda " " "	990.00	
Balance Appropriation " "	1,777.58	
Holly Park Gardening Co. Parking Dolores Street .	390.00	
Balance Appropriation " " "	82.00	
City Street Improvement Co., Alamo Square.....	776.10	
Balance Appropriation Alamo Square	109.14	
Balance Appropriation, Buena Vista	4,073.08	
City Street Improvement Co., Holly Park	1,715.90	
City Street Improvement Co., Holly Park	1,948.44	
Balance Appropriation " "	335.66	
P. F. Dundon, Oil Plant, City Hall.....	1,793.00	
Balance Appropriation, Oil Plant, City Hall	599.32	
Purchase Burial Ground, Indigent Dead.....	5,000.00	
Balance St. Mary's Park Appropriation	220.00	
E. S. Perry, Street Signs Contract	1,500.00	
Owen McHugh, Cliff House Parapet Contract.....	3,148.00	
F. McSheehy, Engine House 26th Ave. Con	9,984.16	
Gray Bros. Street Sweeping Contract	719.25	
Public Utilities	1,000.00	
Health Department Salaries	3,918.85	
1904-05 Audited in 1905 to September 1st, 1905	1,304.33	
		\$883,043.54

SUMMARY OF DEMANDS AUDITED, PAID AND OUTSTANDING Fiscal Year 1904-1905		Demands Out- standing June 30th, 1905	Demands Aud- ited 1904-1905	Total	Demands Paid 1904-1905	Demands Can- celled	Demands Out- standing June 30th, 1905
Advertising and General Fund	\$ 436,137.08	\$4,612,211.75	\$5,047,348.83	\$5,047,348.83	\$4,619,589.99	\$43.63	*\$ 427,715.21
Advertising Redemption Fund		7,235.50	7,235.50	7,235.50	7,235.50		
Duplicate Tax Fund	954.74	7,608.12	8,562.86	8,562.86	7,170.72		1,392.14
Fireman's Relief Fund	152.50	24,945.98	25,098.48	25,098.48	22,934.23		2,144.25
Free Public Library Fund	7,350.47	67,263.48	74,613.95	74,613.95	67,031.09		7,549.66
House Moving Fund, Dept. of Electricity	280.26	948.13	1,228.39	1,228.39	906.98		321.41
House Moving Fund—Public Works	210.00	3,430.00	3,640.00	3,640.00	2,955.00		685.00
Sinking Fund—Park Improvement Fund, 1874-75	330.00	4,000.00	4,000.00	4,000.00	4,000.00		
Interest Acc't—Park Improvement Fund 1874-75	8.39	30.00	360.00	360.00	30.00		330.00
Overpayment Personal Property Tax Fund	45,224.52		8.39	8.39	.66	9.05	† 49,482.53
Park Fund	15,676.29	363,053.70	408,278.22	408,278.22	358,784.49	11.20	
Overpayment Personal Property Tax Fund			8.39	8.39	.66	8.39	
Police Relief and Pension Fund		63,554.78	79,231.07	79,231.07	63,099.84		16,131.23
Public Building—Hospital & School Bonds 1902-03		491,903.60	491,903.60	491,903.60	491,903.60		
Public Building—Park Extension Bond Fund		204,395.43	204,395.43	204,395.43	97,795.43		106,600.00
Public Building—Mission Park Bond Fund		291,370.00	291,370.00	291,370.00	291,370.00		
Public Building—School Bond Fund		67,038.75	67,038.75	67,038.75	28,732.50		38,306.25
Public Building—Library Bond Fund		269,037.50	269,037.50	269,037.50	110,000.00		159,037.50
Public Building—Sewer Bond Fund		680.17	680.17	680.17	88.77		591.40
Public Building—Street Improvement Bond Fund		177.35	177.35	177.35	28.50		148.85
Common School Fund	51,733.38	1,402,816.56	1,454,549.94	1,454,549.94	1,331,953.40		122,596.54
Robinson Bequest Interest Fund		2,050.00	2,050.00	2,050.00	1,950.00		100.00
Special Permit Fund		76,355.00	76,355.00	76,355.00	71,475.00		4,880.00
Special Badge		232.00	232.00	232.00	227.00		5.00
Surplus Fund		2,684.46	2,684.46	2,684.46	2,684.46		
Teacher's Institute Fund	37.50	468.54	506.04	506.04	490.00		16.00
Tearing Up Street Fund	7,141.40	79,207.44	86,348.84	86,348.84	78,626.81		7,722.03
Unapportioned Fee Fund	791.10	14,018.90	14,810.00	14,810.00	13,910.00		900.00
Wandel Bequest Fund		1,115.15	1,115.15	1,115.15	450.00		665.15
	\$565,027.63	\$8,037,832.29	\$8,622,859.92	\$8,622,859.92	\$7,675,444.01	\$97.08	\$947,320.15

*Treasurer's error in payment of \$1 short. General Fund.
 †Treasurer's error in payment of \$46.65 out of School Fund should be General Fund.
 ‡66 cents paid by Treasurer without an audit.

TREASURER'S RECEIPTS

Treasurer in Cash Account with the Auditor for Moneys belonging to the City and County of San Francisco, State of California, during the Fiscal Year Ending June 30th, 1905.

PURPOSE	AMOUNT	TOTAL
General Fund 1904-1905		
From Taxes	\$4,241,528.77	
From Assessor's and Tax Collector's Poll Tax Commissions.....	17,427.90	
*From Mayor: Rent of City Property not including amount credited to Surplus Fund	7,078.30	
From Mayor: Sale of Property	1,377.50	
*From State Commission in Lunacy not including amount credited to Surplus Fund	330.00	
From State Erroneous Assessments— Sec. 3804 P. C.	1,063.73	
From Alms House—See Surplus Fund		
From Superior Court Fines.....	125.10	
From Police Court Fines, Department No. 1 .	6,987.00	
From Police Court Fines, Department No. 2 .	5,221.00	
From Police Court Fines, Department No. 3 .	15,553.50	
From Police Court Fines, Department No. 4 .	7,619.00	
From City and County Licenses, not including amount credited to Surplus Fund	509,820.75	
From Coroner—Money from unknown dead ..	151.78	
*From Police Department, Board of Prisoners en route, not including amount credited to Surplus Fund	84.00	
*From Sheriff, Board of U. S. Prisoners, not including amount credited to Surplus Fund	2,994.40	
From U. S. Government, Freight on Ballots sent to Washington.....	57.42	
From Board of Public Works—Sale of Material	1,044.00	
From Board of Public Works—Bldg. Permits	23,856.00	
*From Percentage of Street Railways, not including amount credited to Surplus Fund	7,440.38	
From Percentage on Franchises.....	1,175.76	
From State of California 6% on Personal Property Tax Collected by Assessor	12,852.31	
*From Board of Supervisors, not including amount credited to Surplus Fund—Lease of House of Correction Tract and Taxes Paid on City Property	314.24	
		\$4,864,102.84
Common School Fund 1904-1905.		
From Taxes	323,364.32	
From Rent of School Property	10,186.00	
From Rent of Lincoln School Lots	48,000.00	
From Sale of Material	95.75	
From State Apportionment	919,934.28	
From Restitution by Unknown Person	195.00	
		1,301,775.35

TREASURER'S RECEIPTS—Continued

PURPOSE	Amount	Total
Teachers Institute Fund—		
From Examination and Certificate Fees	450.00	
		450.00
Redemption Advertising Fund—		
From Auditor	1,090.50	
From Tax Collector	6,205.00	
		7,295.50
Advertising Fund—		
From Fees—Board of Public Works	2,620.70	
From Fees—Board of Supervisors	6,791.95	
From Fees—Fire Commission	152.30	
		9,564.95
Unapportioned Fee Fund—		
From Mayor	1,848.00	
From Auditor	46.00	
*See Surplus Fund		
From Sheriff	21,064.27	
From County Clerk	65,907.95	
From Recorder	63,330.85	
From Justice's Court	26,073.00	
From Board of Public Works	22,912.50	
From Board of Health	659.70	
From Police Department	3,197.50	
From Pound Fees	3,843.45	
From Department of Electricity	7,560.13	
		216,443.40
Library Fund—		
From Taxes	75,490.99	
From Fines	3,042.70	
From Books Lost and Paid for, Etc	240.75	
		78,774.44
Surplus Fund—		
From Percentages on Street Railroads	26,497.05	
From State Commission in Lunacy	30.00	
From Mayor—Rent of City Property	361.90	
From Sheriff—Board of Prisoners	880.40	
From Almshouse—Sale of Bonds	80.68	
From Clerk Board of Supervisors—Refund of Taxes	206.59	
From Police Department—Board of Prisoners	54.40	
From Police Department, Sale of Unclaimed Property	896.56	
From Sale of Licenses 1903-1904	486.00	
		29,493.58
Park Fund—		
From Taxes	352,291.32	
From Proceeds of Children's Playground	24,922.85	
From Rent of Boathouse	300.00	
From Japanese Tea Gardens	1,363.30	
From Board of Mounted Police Horses	1,440.00	
From Auto Permits	870.00	

TREASURER'S RECEIPTS—Continued

PURPOSE	Amount	Total
From Railroads	600.00	
From Sale of Material and Water	86.00	
From Program Privileges.....	1,340.00	
From Refund of Money Unpaid—on Labor Demand	16.25	
From Goldberg, Bowen & Co.—Removal of Manure	120.00	
		383,349.72
Police Relief and Pension Fund—		
From Fines of Officers	1,878.33	
From Contributions of Officers	16,728.00	
From Sale of Property—See Surplus Fund		
From Rewards of Officers	353.00	
		18,959.33
House Moving Fund—Board of Public Works—		
From Permits Issued	3,135.00	
		3,135.00
House Moving Fund—Department of Electricity—		
From Permits Issued	1,330.00	
		1,330.00
Coupons of Park Improvement Bonds—1874—1875		
From Taxes	114.44	
		114.44
Sinking Fund Park Improvement Bonds—1874—1875		
From Taxes	57.22	
From Loans Returned	13,000.00	
From Interest Received	258.00	
		13,315.22
Windel Bequest Interest Fund—		
From Interest Account	892.12	
		892.12
Tearing up Streets Fund—		
From Sewer Permits	79,317.89	
		79,317.89
Robinson Bequest Interest Fund—		
From Interest Received	2,050.00	
		2,050.00
Duplicate Tax Fund—		
From Taxes Overpaid and Paid in Duplicate ..	11,478.71	
		11,478.71
Assessor's Account —		
From Personal Property Taxes.....	643,664.67	
		643,664.67
State of California—		
From Taxes.....	2,678,635.96	
From Poll Taxes.....	102,051.90	
From Redemption of Property Sold to State ...	9,969.69	
From Collateral Inheritance Tax	389,098.01	
From Maintenance of Pupils at Preston School of Industry	6,007.43	
From Maintenance of Pupils at Whittier Reform School	3,752.81	

TREASURER'S RECEIPTS—Continued

PURPOSE	Amount	Total
From Maintenance of Children at Home for Feeble Minded at Glen Ellen.....	22,607.50	
From Sale of Property under Section 3897 P. C .	5,975.62	
		3,218,098.92
Firemen's Relief Fund— From Taxes	20,150.79	
		20,150.79
Special Badge Fund—		
From Deposits on License Badges.....	328.00	
		328.00
Special Permit Fund		
From Deposits	73,995.00	
		73,995.00
Public Building Hospital Bond Fund— From Sale of Bonds	250,000.00	
		250,000.00
Public Building Sewer Bond Fund— From Sale of Bonds	724,850.00	
		724,850.00
Public Building School Bond Fund— From Sale of Bonds	1,077,680.00	
		1,077,680.00
Public Building Streets Bond Fund— From Sale of Bonds.	243,000.00	
		243,000.00
Public Building Jail Bond Fund— From Sale of Bonds	278,400.00	
		278,400.00
Public Building Library Bond Fund— From Sale of Bonds	739,800.00	
		739,800.00
Public Building Playgrounds Bond Fund— From Sale of Bonds	740,000.00	
		740,000.00
Public Building Mission Park Bond Fund— From Sale of Bonds	292,000.00	
		292,000.00
Public Building Park Extension Bond Fund— From Sale of Bonds	328,000.00	
		328,000.00
Hospital Bond—Redemption Account— Taxes.....	24,965.34	
		24,965.34
Sewer Bond—Redemption Account— Taxes.....	180,748.93	
		180,748.93
School Bond—Redemption Account— Taxes.....	89,875.15	
		89,875.15
Street Bond—Redemption Account— Taxes.....	40,443.81	
		40,443.81

TREASURER'S RECEIPTS—Continued

PURPOSE	Amount	Total
Jail Bond—Redemption Account— Taxes.....	17,475.73	
Library Bond—Redemption Account— Taxes.....	40,943.12	17,475.73
Playgrounds Bond—Redemption Account— Taxes.....	18,474.31	40,943.12
Park Extension Bond—Redemption Account Taxes.....	7,988.90	18,474.31
Mission Park Bond—Redemption Account— Taxes.....	7,489.62	7,988.90
Telegraph Hill Bond—Redemption Account— Taxes..	14,979.22	7,489.62
Hospital Bond—Interest Account— Taxes..... Accrued Interest.....	8,488.22 1,458.35	14,979.22
Sewer Bond—Interest Account— Taxes..... Accrued Interest.....	25,464.63 7,909.10	9,946.57
School Bond—Interest Account— Taxes..... Accrued Interest.....	37,447.98 11,423.99	33,373.73
Street Bond—Interest Account— Taxes..... Accrued Interest.....	8,488.21 1,484.45	48,871.97
Jail Bond—Interest Account— Taxes..... Accrued Interest.....	9,486.83 1,652.75	9,972.66
Library Bond—Interest Account— Taxes..... Accrued Interest.....	25,963.96 2,661.28	11,139.58
Playgrounds Bond—Interest Account— Taxes..... Accrued Interest.....	25,464.65 2,265.34	28,625.24
Park Extension Bond—Interest Account— Taxes..... Accrued Interest.....	11,484.04 637.67	27,729.99
		12,121.71

AUDITOR

TREASURER'S RECEIPTS—Continued

PURPOSE	Amount	Total
Mission Park Bond—Interest Account—		
Taxes.....	9,986.03	
Accrued Interest.....	567.78	
		10,553.81
Telegraph Hill Bond—Interest Account—		
Taxes.....	20,471.54	
		20,471.54
Total		\$16,308,800.00

NOTE:—See Transfer Entries for Amount Transferred

PAYMENTS BY THE TREASURER

ACCOUNT	Amount	Total
General Fund 1899-1900—		
Demands Paid	\$ 5,500.00	\$ 5,500.00
General Fund 1904-1905—		
Demands Paid	4,612,781.55	4,612,781.55
Assessor's Account—		
Apportioned to Sundry Funds	662,634.60	662,634.60
Advertising Fund—		
Demands Paid	1,308.44	1,308.44
Duplicate Tax Fund—		
Demands Paid	7,170.72	7,170.72
Firemen's Relief Fund—		
Demands Paid	22,954.23	22,954.23
House Moving—Department of Electricity—		
Demands Paid	906.98	906.98
House Moving—Board of Public Works—		
Demands Paid	2,955.00	2,955.00
Library Fund—		
Demands Paid	67,031.09	67,031.09
Special Badge Fund—		
Demands Paid	227.00	227.00
Overpayment Personal Property Tax Fund 1900—		
Demands Paid .....	.23	.23
Overpayment Personal Property Tax Fund 1901—		
Demands Paid .....	.43	.43
Park Fund—		
Demands Paid	358,784.49	358,784.49
Police Relief and Pension Fund—		
Demands Paid	63,099.84	63,099.84
Redemption of Advertising Fund—		
Demands Paid	7,235.50	7,235.50
Robinson Bequest Interest Fund—		
Demands Paid	1,950.00	1,950.00
Windel Bequest Interest Fund—		
Demands Paid	450.00	450.00

PAYMENTS BY THE TREASURER—Continued

ACCOUNT	Amount	Total
Hospital and School Building Fund of 1902-1903— Demands Paid	491,903.60	491,903.60
Common School Fund 1904-1905— Demands Paid	1,331,953.40	1,331,953.40
Special Permit Fund— Demands Paid	71,475.00	71,475.00
State of California	3,214,283.90	3,214,283.90
Surplus Fund— Demands Paid	2,684.46	2,684.46
Teachers' Institute Fund— Demands Paid	490.04	490.04
Tearing Up Street Fund— Demands Paid	78,626.81	78,626.81
Unapportioned Fee Fund— Demands Paid	13,910.00	13,910.00
Sinking Fund Park Improvement Bonds 1874-75— Redemption of Bonds	4,000.00	4,000.00
Interest Account Park Improvement Bonds 1874-75 Demands Paid	30.00	30.00
Public Building Sewer Bond Fund— Demands Paid	88.77	88.77
Public Building School Bond Fund— Demands Paid	28,732.50	28,732.50
Public Building Streets Bond Fund	28.50	28.50
Public Building Library Bond Fund— Demands Paid	110,000.00	110,000.00
Public Building Mission Park Bond Fund— Demands Paid	291,370.00	291,370.00
Public Building Park Extension Bond Fund— Demands Paid	97,795.43	97,795.43
Total		\$11,552,362.51

CONDITION OF TREASURY.

Cash on Hand June 30, 1905, at the credit of the following Funds and Accounts.

	Amount	Total
General Fund	\$ 847,541.43	
Common School Fund	5,123.86	
Teacher's Institute Fund	254.70	
Advertising Fund	8,256.51	
Advertising—Redemption Account	135.00	
Unapportioned Fee Fund	19,312.92	
Park Fund	70,836.56	
Library Fund	28,850.45	
Police Relief and Pension Fund	18,450.21	
House Moving Fund, Board of Works	1,560.00	
House Moving Fund, Department of Electricity	1,705.67	
Duplicate Tax Fund	14,283.28	
19th Street Extension Fund	236.53	
Potero Avenue Extension Fund	371.92	
Overpayment P. P. Tax Fund 1899	1,436.26	
Overpayment P. P. Tax Fund 1900	581.78	
Overpayment P. P. Tax Fund 1901	3,825.23	
Coupon of Park Improvement Bonds	744.44	
Sinking Fund Park Improvement Bonds 1874-1875	7,315.22	
Sinking Fund Dupont Street Bonds	158.02	
Tearing Up Streets Fund	18,525.05	
Robinson Bequest Fund	50.00	
Robinson Bequest Interest Fund	850.00	
Assessor's Account	636,056.32	
State of California	42,355.88	
General Fund 1899	1,751.68	
Henri Windel Bequest Interest Fund	888.18	
Surplus Fund	103.24	
Firemen's Reilef Fund	1,287.43	
Special Permit Fund	30,681.75	
Special Badge Fund	708.00	
Hospital and School Building Fund 1902-03	142,947.48	
Public Building Hospital Bond Fund	250,000.00	
Public Building Sewer Bond Fund	724,761.23	
Public Building School Bond Fund	1,048,947.50	
Public Building Streets Bond Fund	242,971.50	
Public Building Jail Bond Fund	278,400.00	
Public Building Library Bond Fund	629,800.00	
Public Building Playgrounds Bond Fund	740,000.00	
Public Building Mission Park Bond Fund	630.00	
Public Building Park Extension Bond Fund	230,204.57	
Hospital Bond—Redemption Account	24,965.34	
Sewer Bond—Redemption Account	180,748.93	
School Bond—Redemption Account	89,875.15	
Street Bond—Redemption Account	40,443.81	
Jail Bond—Redemption Account	17,475.73	
Library Bond—Redemption Account	40,943.12	
Playground Bond—Redemption Account	18,474.31	
Park Extension Bond—Redemption Account	7,988.90	
Mission Park Bond—Redemption Account	7,489.62	

CONDITION OF TREASURY—Continued

	Amount	Total
Telegraph Hill Bond—Redemption Account	14,979.22	
Hospital Bond—Interest Account	9,946.57	
Sewer Bond—Interest Account	33,373.73	
School Bonds—Interest Account	48,871.97	
Street Bond—Interest Account	9,972.66	
Jail Bond—Interest Account	11,139.58	
Library Bond—Interest Account	28,625.24	
Playgrounds Bond—Interest Account	27,729.99	
Park Extension Bond—Interest Account	12,121.71	
Mission Park Bond—Interest Account	10,553.81	
Telegraph Hill Bond—Interest Account	20,471.54	
Balance Cash on Hand, June 30th, 1905	\$6,709,090.73	
Less A. C. Widber Deficiency Account	14,789.16	
	\$6,694,301.57	\$6,694,301.57

BALANCE.

Cash on Hand July 1st, 1904	\$ 1,938,663.28		
Receipts During Fiscal Year 1904-05	16,308,000.80		
		18,246,664.08	
Payments During Fiscal Year 1904-5		11,552,362.51	
Balance on Hand July 1st, 1905.			6,694,301.57

TRANSFER ENTRIES
Funds and Accounts

From General Fund 1904-1905	\$1,035,652.58	
To Police Relief and Pension Fund		\$ 45,459.78
To Assessor's Account		360,000.00
To Firemen's Relief Fund		3,500.00
To New Hospital Fund		300,000.00
To New School Fund		280,000.00
To Surplus Fund		46,692.80
From Police Relief and Pension Fund	3,250.00	
To Surplus Fund		3,250.00
From Common School Fund	230,000.00	
To Assessor's Account		200,000.00
To New School Building Fund		30,000.00
From Sinking Fund Park Improvement Bonds 1874-1875	3,918.88	
To General Fund		3,918.88
To Library Fund	665,000.00	10,000.00
To General Fund		360,000.00
To Common School Fund		200,000.00
To Park Fund		82,000.00
To Firemen's Relief Fund		13,000.00
From Unapportioned Fee Fund	201,555.97	
To General Fund		181,554.53
To Police Relief and Pension Fund		3,105.00
To Surplus Fund		16,896.44
From Advertising Fund	9,800.34	
To General Fund		9,800.34
From New Hospital Fund	617,425.54	
To Hospital and School Building Fund 1902-03		317,425.54
To General Fund		300,000.00
From Park Fund	82,000.00	
To Assessor's Account		82,000.00
From Surplus Fund	95,545.12	
To General Fund 1903-1904		93,545.12
To Firemen's Relief Fund		2,000.00
From New School Building Fund	627,425.54	
To General Fund		280,000.00
To Common School Fund		30,000.00
To Hospital and School Building Fund 1902-1903		317,425.54
From Library Fund	10,000.00	
To Assessor's Account		10,000.00
From Firemen's Relief Fund	15,000.00	
To Assessor's Account		13,000.00
To Surplus Fund		2,000.00
From Coupons Park Improvement Bonds 1874-1875	1,101.60	
To General Fund		2,101.60
Total	\$3,598,675.57	\$3,598,675.57

TREASURER IN CASH ACCOUNT WITH AUDITOR FOR MONEYS BELONGING TO STATE OF CALIFORNIA
 For
 Fiscal Year 1904-05
 STATE OF CALIFORNIA.

Dr.

Cr.

To Amount Paid State Treasurer	\$3,200,295.86	By Cash on Hand July 1st, 1904.....	\$ 38,540.86
To Treasurer's Mileage	72.00	By Taxes Received	2,678,635.96
To Assessor's Commission on Personal Property Taxes	12,852.31	By Poll Taxes Received	102,031.90
To State Portion Refunded Taxes	1,063.73	By Maintenance of Juveniles at Whittier State School	3,752.81
To Balance on Hand June 30th, 1905	42,355.88	By Maintenance of Juveniles at Preston School of Industry.....	6,007.43
	\$3,256,639.78	By Maintenance of Inmates at Home of Feeble Minded Children.....	22,607.50
		By From Sales of Property, Sec. 3897 P. C.	5,975.62
		By Redemption of Property Sold to State.....	9,909.69
		By Collateral Inheritance Tax	389,098.01
			\$3,256,639.78

J. E. McDOUGALD, TREASURER, LOAN ACCOUNT FISCAL YEAR 1904-1905

Loans Made from Sinking Fund on Security of United States, State and County Bonds

1904—June 30, To Loans Unpaid June 30, 1904	\$ 13,000.00	
1905—June 30, By Loans Returned During Fiscal Year 1904-1905		\$ 13,000.00
	\$ 13,000.00	\$ 13,000.00

STATEMENT OF POLL TAXES FOR FISCAL YEAR 1904-1905

Sold by Washington Dodge, Assessor:—		
3650 Poll Tax Receipts, Account of 1904 @ \$3	\$ 10,950.00	
15% Commission	1,642.50	
		\$ 9,307.50
325 Tax Receipts, Account of 1904 @ \$2	650.00	
15% Commission	97.50	
		552.50
Sold by Washington Dodge, Assessor:—		
54,227 Poll Tax Receipts, Account of 1905 @ \$2	108,454.00	
15% Commission	16,268.10	
		92,185.90
Sold by Edward J. Smith, Tax Collector:—		
2 Poll Tax Receipts—Delinquent @ \$4	8.00	
25% Commission	2.00	
		6.00
		\$ 102,051.90

TAX COLLECTOR IN ACCOUNT WITH AUDITOR.

STATEMENT OF TAXES FOR FISCAL YEAR 1904-1905.

Dr. City and County and State Real Estate Roll—Taxes of 1904	\$6,293,819.08		
To City and County and State Real Estate Roll—Additional Charge.	165.50		
To City and County and State Real Estate P. P. Roll—Taxes 1904.	1,366,630.78		
To Penalties Collected	8,768.78		
	\$7,669,384.14		
		By Cash Paid City and County Treasurer, Taxes and Penalties . . .	\$7,571,240.77
		By City and County Property Ex-empt from Taxation	496.50
		By Property Assessed to Regents of University	4,080.18
		By Property Assessed to Deaf, Dumb and Blind Asylum	258.86
		By Property Assessed to California School Mechanical Arts	3,129.68
		By Property Assessed to Windel Bequest Fund	268.46
		By Property Assessed to Robinson Bequest Fund	165.50
		By Sec. 3806 P. C. and Under Order of Court Withdrawn from Sale	56,152.66
		By Delinquent Taxes, City and County	22,732.64
		By Delinquent Taxes, State.	10,858.89
			\$7,669,384.14

Cr.

SUMMARY OF TAXES COLLECTED AND PAID INTO THE TREASURY
DURING THE FISCAL YEAR 1904-1905.

Year.	Taxes.	Penalties.	Total.
1904—State, City and County Real Estate and Personal Property Taxes.....	\$7,562,471.99	\$8,768.78	\$7,571,240.77
1903—State, City and County Real Estate and Personal Property Taxes.....	18,582.61	29.03	18,611.64
1902—State, City and County Real Estate and Personal Property Taxes.....	924.71	25.89	950.60
1901—State, City and County Real Estate and Personal Property Taxes.....	44.51	7.46	51.97
1900—State, City and County Real Estate and Personal Property Taxes.....	7.31	1.03	8.34
1899—State, City and County Real Estate and Personal Property Taxes.....	2,590.09		2,590.09
1898—State, City and County Real Estate and Personal Property Taxes.....	28.94	.60	29.54
1896—State, City and County Real Estate and Personal Property Taxes.....	1.39		1.39
1895—State, City and County Real Estate and Personal Property Taxes.....	2.00		2.00
1892—State, City and County Real Estate and Personal Property Taxes.....	5.04		5.04
1891—State, City and County Real Estate and Personal Property Taxes.....	1.31	.16	1.47
1890—State, City and County Real Estate and Personal Property Taxes.....	2.00		2.00
1889—State, City and County Real Estate and Personal Property Taxes.....	31.57	1.53	33.10
1888—State, City and County Real Estate and Personal Property Taxes.....	20.00	.96	20.96
1887—State, City and County Real Estate and Personal Property Taxes.....	13.48	.65	14.13
1886—State, City and County Real Estate and Personal Property Taxes.....	10.68	.53	11.21
1885—State, City and County Real Estate and Personal Property Taxes.....	12.04	.60	12.64
1884—State, City and County Real Estate and Personal Property Taxes.....	26.37	.59	26.96
1883—State, City and County Real Estate and Personal Property Taxes.....	14.08	.63	14.71
1882—State, City and County Real Estate and Personal Property Taxes.....	13.16	.66	13.82
1881—State, City and County Real Estate and Personal Property Taxes.....	12.47	.62	13.09
1880—State, City and County Real Estate and Personal Property Taxes.....	14.81	.74	15.55
1873—State, City and County Real Estate and Personal Property Taxes.....	.75		.75
1869—State, City and County Real Estate and Personal Property Taxes.....	15.48		15.48
Total	\$7,584,846.79	\$8,840.46	\$7,593,687.25

Cr.

APPORTIONMENT OF TAXES.

Fiscal Year 1904-05.

Dr.

	Amount.	Total.		
To State Railroad Taxes 1904 To City and County's Portion of Redemption of Property Sold to State To City and County's Portion of Sale Section 3897 P. C. To Personal Property Taxes 1904 Unsecured by R. E. Collected by Assessor		\$1,804.30 20,575.73 15,263.07	By General Fund By Common School Fund By Park Fund By Library Fund By State of California By Interest Account, Park Improvement Bonds, 1874-75	4,241,528.77 323,364.32 352,291.32 75,490.99 2,678,635.96 114.44
To Taxes and Penalties Collected by Tax Collector During Fiscal Year 1904-05. Less Amount Collected in June, 1905, and Paid to and Apportioned by Treasurer in Fiscal Year 1905-1906	7,593,687.25 29,891.52	662,634.60 7,563,795.73	By Sinking Fund, Park Improvement Bonds, 1874-75 By Firemen's Relief Fund By Hospital Bond—Redemption Account By Sewer Bond—Redemption Acct. By School Bond—Redemption Acct. By Street Bond—Redemption Acct. By Jail Bond—Redemption Acct. By Library Bond—Redemption Acct	57.22 20,150.79 24,965.34 180,748.93 89,875.15 40,443.81 17,475.73 40,943.12
To Taxes Collected in June, 1904, by Tax Collector and Paid to and Apportioned by Treasurer in Fiscal Year 1904-1905. To Amount of Advertising and Deeds Collected by Tax Collector and Apportioned to General Fund 1904-1905.	51,113.19 2,577.41	51,113.19 2,577.41	By Playground Bond—Redemption Account By Park Ext. Bond—Redemption Account By Mission Park Bond, Redemption Account By Telegraph Hill Bond—Redemption Account By Hospital Bond—Interest Account By Sewer Bond—Interest Account By Schools Bond—Interest Account By Street Bond—Interest Account By Jail Bond—Interest Account By Library Bond—Interest Account By Playgrounds Bond—Interest Account By Park Ext. Bond—Interest Acct. By Mission Park Bond—Int. Acct. By Telegraph Hill Bond—Interest Account	18,474.31 7,988.90 7,489.62 14,979.22 8,488.22 25,464.63 37,447.98 8,488.21 9,486.83 25,963.96 25,464.65 11,484.04 9,986.03 20,471.54
		\$8,317,764.03		\$8,317,764.03

STATEMENT OF ASSESSED VALUE OF PROPERTY, RATE OF TAXATION AND AMOUNT OF TAX LEVIED FROM
1861-62 to 1904-05.

Fiscal Year	Valuation of Real Estate and Improvements....	Valuation of Personal Property	Total Valuation	Rate for City and County Purposes	Rate for State Purposes	Total Rate on Each \$100 Valuation	Total Tax Levied
1861-62	\$41,870,811.00	Real & Personal 29,540,553.93	\$41,870,811.00	\$2.25	\$0.62	\$2.87	\$1,201,692.27
1862-63	37,016,101.87	35,556,123.21	66,556,655.80	1.97½	.77	2.74½	1,826,980.19
1863-64	43,153,212.50	35,851,652.13	78,709,337.71	1.20	.90	2.10	1,652,896.09
1864-65	47,345,973.66	39,775,496.34	88,934,543.34	1.73	1.25	2.98	2,479,289.24
1865-66	49,169,047.00	43,214,976.43	96,746,159.43	1.97	1.15	3.12	2,774,557.75
1866-67	53,531,183.00	51,152,963.88	109,360,825.73	1.87	1.13	3.10	2,999,130.94
1867-68	58,207,861.85	42,782,307.60	106,414,028.82	2.05	1.00	3.05	3,280,824.77
1868-69	63,631,721.22	44,982,907.67	114,759,510.67	2.11	.97	3.08	3,245,627.87
1869-70	69,776,603.00	31,246,159.00	106,391,876.00	1.98	.86½	2.84½	3,534,592.91
1870-71	75,145,717.00	28,900,988.00	105,025,539.00	2.10½	.86½	2.97	3,026,848.89
1871-72	76,124,551.00	108,011,616.90	288,583,256.90	1.00	.50	1.50	3,149,258.51
1872-73	180,571,640.00	Real & Personal 101,763,267.00	212,407,505.00	1.10	.60	1.70	4,328,748.84
1873-74	212,407,505.00	99,160,814.00	264,229,444.00	1.45	.64	2.09	3,398,520.08
1874-75	162,466,177.00	70,354,615.00	269,105,141.00	1.00	.60	1.60	5,946,176.02
1875-76	169,944,327.00	63,893,330.00	269,576,978.00	1.39	.73	2.12	4,319,137.51
1876-77	190,222,363.00	54,196,550.00	244,477,360.00	1.20	.63	1.83	5,537,260.78
1877-78	190,973,720.00	217,487,074.00	444,311,396.00	1.69	.55	2.24	4,664,067.02
1878-79	190,280,810.00	279,287,738.00	444,311,396.00	1.37	.62½	2.00	5,476,292.86
1879-80	166,429,845.00	71,121,983.00	239,423,662.00	1.57	.64	2.21	4,828,867.13
1880-81	165,023,658.00	66,598,521.00	222,433,400.00	1.15	.65	1.80	4,126,209.67
*1881-82	168,301,669.00	50,267,099.00	202,162,007.00	1.20	.59	1.80	3,643,565.85
1881-82	155,834,879.00	70,691,188.00	233,452,389.00	63-100	.49	1.80	3,643,565.85
1882-83	151,894,908.00	62,272,534.00	221,225,245.00	1.20	.49	1.69	3,914,361.31
1883-84	182,531,759.00						
1883-84	158,723,269.00						

*1884-85	180,917,078.00	64,240,218.00	245,157,296.00	1.12½	.45 2-10	1.57 7-10	3,622,593.51
1884-85	164,495,888.00	59,013,672.00	223,509,560.00	1.04	89-100	1.59 29-100	3,744,356.82
*1885-86	171,416,426.00	56,192,922.00	227,609,348.00				
1885-86	172,843,592.00	61,482,367.00	234,325,959.00				
1886-87	175,409,145.00	54,741,864.00	230,151,009.00	1.01	10-100	1.57 1-10	3,615,672.35
1887-88	191,618,454.00	60,127,657.00	251,746,111.00	1.14	78-100	1.75 58-100	4,420,158.20
1889 89	211,467,987.00	61,921,629.00	273,389,616.00	1.06	7-10	1.57 1-10	4,294,950.87
1889-90	241,119,410.00	64,920,995.00	306,040,405.00	1.00	7-2-10	1.72 2-10	5,165,648.48
1890-91	235,361,768.00	66,082,372.00	301,444,140.00	1.03	.58	1.61	4,853,152.44
City & County *1891-92	244,515,331.00	67,050,748.00	311,556,079.00	1.03			
State	317,869,930.00	81,956,147.00	399,826,077.00		.44 6-10	1.47 6-10	4,992,354.91
City & County *1892-93	277,340,008.00	68,884,698.00	346,224,706.00	1.00	.43 4-10	1.43 4-10	5,250,531.37
State							
1892-93	332,808,010.00	79,239,002.00	412,047,076.00		.57 6-10	1.60 6-10	5,502,865.51
1893-94	276,457,420.00	66,186,759.00	342,644,179.00	1.03	.49 3-10	1.49 3-10	5,082,919.33
*1894-95	261,808,995.00	63,299,903.00	325,108,898.00	1.00	.68½	2.25	6,896,872.16
1895-96	265,018,695.00	62,786,542.00	327,805,147.00	1.565	.42 9-10	1.39 82-100	5,901,378.77
*1896-97	330,401,194.00	91,668,562.00	422,069,716.00	.96	92-100	1.39 82-100	5,899,227.71
1897-98	278,157,865.00	69,797,055.00	347,954,920.00	1.1854	.51	1.69 54	5,899,227.71
1898-99	282,769,730.00	69,374,331.00	352,144,061.00	1.318	.48 8	1.806	6,363,417.64
1899 00	285,305,370.00	119,806,205.00	405,111,575.00	1.029	.60 1-10	1.63	6,603,318.67
1900-01	288,530,645.00	121,616,309.00	410,146,954.00	1.127	.498	1.625	6,664,888.00
1901-02	289,681,992.00	123,464,835.00	413,146,827.00	1.0762	.48	1.5562	6,429,390.92
1902-03	288,436,300.00	131,532,344.00	419,968,644.00	1.2262	.382	1.6082	6,753,800.17
City & County *1903-04	300,092,150.00	127,554,179.00	427,646,329.00	1.076	.561	1.637	7,663,956.11
State	390,119,914.00	155,746,517.00	545,866,431.00		.535	1.655	8,323,099.42
1904-05	380,282,950.00	122,612,409.00	502,895,359.00	1.12	.49	1.654	8,670,865.66
1905-06	401,966,350.00	122,324,586.00	524,230,936.00	1.164			

* Years in which the State Board of Equalization increased the valuation of property, for State purposes: 1881-82, 8%; 1883-84, 15%; 1884-85, 10%; 1891-92, 30%; 1892-93, 20%; 1894-95, 15%; 1885-86, 12½%; 1896-97, 20%; 1903-04, 30%.

Decrease of 5% in the years of 1889-90.

REDEMPTION OF REAL ESTATE SOLD TO STATE FOR DELINQUENT
TAXES

Fiscal Year 1904-05

Year	Taxes	Pen. on Delq.	Costs	Interest	Pen. on Red't	Total
1879	\$ 1.40	\$.07	\$ 1.00	\$ 2.45		\$ 4.92
1880	19.33	.90	7.50	32.62		60.35
1881	53.75	1.94	13.00	86.57		155.26
1882	45.29	.05	1.00	70.39		116.73
1883	19.92			29.68		49.60
1884	148.04			209.35		357.39
1885	7.47			10.12		17.59
1886	1.89			2.42		4.31
1887	2.11			2.54		4.65
1888	1.89			2.14		4.03
1889	2.02			2.16		4.18
1891	1.78	.22	.50	1.60		4.10
1892	8.66	.82	2.50	7.15		19.13
1893	42.82	4.07	8.00	31.99		86.88
1894	135.85			92.63	109.74	338.22
1895	345.55			215.89	316.51	877.95
1896	297.78			166.88	280.02	744.68
1897	468.66			225.17	444.46	1,138.29
1898	919.47			362.30	891.23	2,173.00
1899	916.75			298.78	887.87	2,103.40
1900	1,138.88	57.58	33.50	312.18	863.04	2,405.18
1901	1,627.99	95.57	55.50	327.66	997.25	3,103.97
1902	2,449.29	139.22	73.86	293.65	1,002.51	3,958.53
1903	9,512.30	825.09	412.50	353.99	1,358.14	12,462.02
	\$18,168.89	\$1,125.53	\$608.86	\$3,140.31	\$7,150.77	\$30,194.36

RECEIPTS FROM THE SALE OF DELINQUENT TAX PROPERTY

Sold by Tax Collector on Authorization From State Controller.

1904-1905.

Year	Taxes	Pen. on Delq.	Costs.	Interest.	Excess.	Total.
1880	\$ 13.13	\$.68	10.00	\$ 39.86	\$ 131.02	\$ 194.69
1881	9.52	.47	6.00	25.86	4.06	45.91
1882	5.31	.26	3.50	13.95		23.02
1883	3.80	.19	2.00	8.88		14.87
1884	1.88	.10	1.50	4.90		8.38
1885	2.92	.15	2.00	7.55		12.62
1886	1.02	.06	1.00	2.63		4.71
1887	1.14	.06	1.00	2.62		4.82
1888	1.41	.07	1.00	2.79		5.27
1889	1.01	.05	.50	1.66		3.22
1890	.97	.05	.50	1.51		3.03
1891	14.04	1.77	5.00	18.72	291.39	330.92
1892	48.55	6.10	31.50	71.17	407.95	565.27
1893	72.60	8.77	31.50	88.18	717.38	918.43
1894	212.62	26.67	91.00	227.96	2,232.28	2,790.53
1895	430.57	54.46	125.50	387.09	852.44	1,850.06
1896	471.48	58.72	147.50	386.32	1,293.70	2,357.72
1897	51.16	6.35	9.50	30.33	776.02	873.36
1898	962.43	122.54	209.50	534.20	3,058.52	4,887.19
1899	660.25	83.18	180.50	316.26		1,240.19
1900	617.52	77.02	170.00	234.80		1,099.31
1901	420.56	52.15	110.00	113.99		696.70
1902	305.88	38.36	77.00	47.39		468.63
1903	270.32	33.84	56.00	18.03		378.19
	<u>\$4,580.09</u>	<u>\$ 572.07</u>	<u>\$1,273.50</u>	<u>\$2,586.65</u>	<u>\$9,764.76</u>	<u>\$18,777.07</u>

BOONDED DEBT OF THE CITY AND COUNTY OF SAN FRANCISCO, JUNE 30, 1905.

Year of Issue	When due.	Rate of Interest Per Annum.	Object of Issue	Bonds Outstanding June, 1905.	Sinking Fund on Hand June 30, 1905.
1874-75.	April 1, 1905.	6 Per cent.	Park Improvement. Amount of Sinking Fund. Net Bonded Debt City and County, June 30, 1905.	\$7,000.00 7,000.00 None.	\$7,000.00

LIST OF BONDS OUTSTANDING JUNE 30, 1905.

Park Improvement Bonds 1874-75, 36, 37, 38, 39, 40, 41, 42,—7 @ \$1,000 each.....	Amount.	Total
	\$7,000.00	\$7,000.00

COUPON ACCOUNT FOR FISCAL YEAR ENDING JUNE 30, 1905.

Park Improvement Bonds 1872-73 and 1874-75	Amount.	Total
Coupons Due and Unpaid June 30, 1904.....	\$660.00	
Coupons Paid Fiscal Year Ending June 30, 1905	30.00	
Coupons Due and Unpaid June 30, 1905.....		630.00
1872-73 Coupons 21 of Bonds 21, 45, 71 and Coupon 34 of Bond 167: 4 Coupons @ \$30 each	120.00	
1874-75 Coupons 41 of Bonds 28, 34, 35: Coupons 41 and 60 of Bonds 36 to 42 inc.: 17 Coupons @ \$30 each..	510.00	630.00

RECAPITULATION OF COUPON ACCOUNTS, FISCAL YEAR ENDING JUNE 30, 1905.

Year of Bond Issue.	Bonds Issued For	Coupons Due and Unpaid	Coupons Paid	Coupons Due and Unpaid
	Park Improvement	June 30, 1904.	1904-1905.	June 30, 1905.
		\$660.00	\$30.00	\$630.00

STATEMENT OF BOND ISSUE OF JULY 1, 1904, UP TO AND INCLUDING
JUNE 30, 1905.

(Schedule 1.)

THE BOND ELECTION SEPTEMBER 29TH, 1903.

Showing the propositions carried and not carried.

Among those not carried is the Telegraph Hill Bond proposition. This proposition received a two-thirds majority of those voting *for and against*, but it was decided by the Supreme Court that two-thirds of *all voting* at the election must vote favorably, and as 1189 neglected to vote two-thirds of all votes was not attained and the proposition was lost. In Section 4, Article XII of the Charter appears the following: "At least two-thirds of the electors voting thereon at each election shall be necessary to secure such acquisition and to warrant the issuance of municipal bonds therefor." On the assumption that the proposition had carried a tax was levied for interest and redemption funds and up to June 30, 1905, \$20,471.54 had been collected for interest and \$614,979.22 for sinking fund (redemption, etc.).

(Schedule 2.)

NUMBERS OF BONDS AS ESTABLISHED BY ORDINANCE NO. 1401

Ordinance No. 1114 provided for an exact one-fortieth yearly series of each issue of Bonds which necessitated the issue of Bonds of \$25,050 at \$75 denominations. In Ordinance No. 1401 all Bonds under \$100 were ignored reducing the amount voted for (\$17,174,000) to \$17,160,000, a difference of \$14,000.

(Schedule 3.)

NUMBER OF BONDS IN EACH SERIES.

One-fortieth of Bonds (one series) are payable annually. To side bonds are attached two coupons for each year of life of Bonds—when any series of bonds are payable, the last coupon attached to Bond is also due and payable.

(Schedule 4.)

BONDS SOLD.

Showing names of parties to whom sold, bonus and accrued interest.

The treasurer holds receipts for bonds sold from those to whom sold which gives also the amount of bonus and accrued interest.

(Schedule 5.)

BONDS SOLD AND UNSOLD.

Showing total issue, Bonds sold and unsold, and number of series sold and unsold.

(Schedule 6.)

DISPOSITION OF PROCEEDS OF BONDS SOLD TO JUNE 30, 1905.

(Schedule 7.)

PROCEEDS SALES OF BONDS NOT DISPOSED OF.

Showing that \$3,841,030.80 was not disposed of on June 30, 1905, and \$3,422,-815.58 on September 27th, 1905.

Nothing was audited previous to July 1, 1905, for coupons paid or redemptions.

Coupons No. 1 on all Bonds sold (8036) in number, have been cancelled, having the word "cancelled" cut through the coupons. These coupons became due on December 31, 1904, before the sale of Bonds and were consequently not paid.

According to plans submitted there will be required for these bonds: Book for General Registry; 106 Book for filing Bonds and Coupons.

(Schedule 1)

THE BOND ELECTION SEPTEMBER 29, 1903.

Total Vote 27,308. Vote Necessary to Carry (Two-Thirds) 18,206.

PURPOSE	Amount of Bonds Voted for.	Votes in Favor	Votes Necessary to Carry	Excess of Votes Necessary to Carry	Short of Votes Necessary to Carry
Hospital Building	\$1,000,000	24,485	18,206	6,279	
Sewers	7,250,000	22,159	18,206	3,953	
Schools	3,595,000	23,327	18,206	5,121	
Streets	1,621,000	22,180	18,206	3,974	
County Jail and Hall of Justice	1,679,000	19,840	18,206	1,634	
Library	1,647,000	18,775	18,206	569	
Playground	741,000	19,642	18,206	1,436	
Golden Gate Park Extension	330,000	18,457	18,206	251	
Mission Park.....	293,000	19,421	18,206	1,215	
Carried.....	\$17,174,000				274
Telegraph Hill Park	\$587,000	17,932	18,206		1,494
St. Mary's Square	205,000	16,712	18,206		1,494
Twin Peaks Square	159,000	16,826	18,206		1,380
Not Carried.....	\$961,000				

(Schedule 2).
 NUMBER OF BONDS AS ESTABLISHED BY ORDINANCE NO. 1401.

BONDS ISSUED FOR	\$100 Bonds	\$500 Bonds	\$1000 Bonds	Total Amount of Bonds	Bonds of \$25, \$50, \$75 Authorized by Ordinance 1114 and Ignored by Ordinance 1401
Hospital Building	1 to 500	1 to 400	1 to 750	\$1,000,000	40 Bonds \$50 each \$2,000
Sewers	1 to 3680	1 to 2726	1 to 5517	7,248,000	40 Bonds \$75 each \$3,000
Schools	1 to 1735	1 to 1481	1 to 2678	3,992,000	40 Bonds \$25 each \$1,000
Streets	1 to 800	1 to 606	1 to 1237	1,620,000	40 Bonds \$25 each \$1,000
County Jail and Hall of Justice	1 to 360	1 to 200	1 to 560	696,000	40 Bonds \$25 each \$1,000
Library	1 to 840	1 to 566	1 to 1277	1,644,000	40 Bonds \$75 each \$3,000
Playground	1 to 430	1 to 128	1 to 633	740,000	40 Bonds \$25 each \$1,000
Golden Gate Park Extension	1 to 280	1 to 278	1 to 161	328,000	40 Bonds \$50 each \$2,000
Mission Park	1 to 320	1 to 120	1 to 200	292,000	40 Bonds \$25 each \$1,000
Totals	8,945	6,505	13,013	\$17,160,000	
Bonds of \$25, \$50 and \$75 ignored in Ordinance No. 1401				14,000	
Total Bonds Voted for				\$17,174,000	

(Schedule 4)
BONDS SOLD

BONDS ISSUED AND SOLD TO	Amount	Bonus	Interest at 3½% Time	Interest at 3½% Amount	Interest Accrued Amount
Hospital Building:— San Francisco Savings Union.....	\$ 250,000		2 mo.		\$ 1,458.35
Sewers:— San Francisco Savings Union.....	\$100,000		2 mo.	583.35	
Mutual Savings Bank.....	181,200		2 mo.	1057.00	
Hibernia Savings & Loan Society.....	343,600	\$50	4 mo. 24 days	4810.40	
Albert Meyer.....	100,000		5 mo.	1458.35	7,909.10
Schools:— San Francisco Savings Union.....	50,000		2 mo.	291.65	
Anglo-Californian Bank.....	61,800		2 mo. 10 days	420.58	
Hibernia Savings & Loan Society.....	89,800		2 mo. 17 days	672.25	
Board of Examiners.....	269,400		2 mo. 20 days	2095.35	
Anglo-Californian Bank.....	89,800		3 mo. 4 days	820.67	
C. W. Fox.....	50,000	10	4 mo. 10 days	631.95	
Anglo-Californian Bank.....	89,800	20	4 mo. 19 days	1213.54	
Hibernia Savings & Loan Society.....	377,000	50	4 mo. 24 days	5278.00	11,423.99
Streets:— San Francisco Savings Union.....	75,000		2 mo.	437.50	
Hibernia Savings & Loan Society.....	100,000		2 mo.	583.35	
Hibernia Savings & Loan Society.....	40,500		2 mo. 17 days	303.20	
James D. Pheelan.....	27,500		2 mo.	160.40	1,484.45
County Jail and Hall of Justice:— Hibernia Savings & Loan Society.....	261,000		2 mo.	1522.50	
Hibernia Savings & Loan Society.....	17,400		2 mo. 17 days	130.25	1,652.75
Library:— The Bank of California.....	739,800		1 mo. 7 days		2,661.28
Playground:— The Bank of California.....	500,000		1 mo. 7 days	1798.67	
The Bank of California.....	240,000		20 days	466.67	2,265.34
Golden Gate Park Extension:— Mutual Savings Bank.....	328,000		20 days		637.67
Mission Park:— German Savings & Loan Society.....	292,000		. 20 days		567.78
	\$ 4,673,600				\$30,060.71

*The bonus is credited to Bond Account.

*The interest is credited to Interest Account.

(Schedule 5).

BONDS SOLD AND UNSOLD

BONDS ISSUED FOR	Total Issue as per Ordinance No. 1401	Bonds Sold	Number of Series Sold	Bonds Unsold	Number of Series Unsold
Hospital Building.....	\$1,000,000	\$ 250,000	10	\$750,000	30
Sewers.....	7,248,000	724,800	4	6,523,200	36
Schools.....	3,592,000	1,077,600	12	2,514,400	28
Streets.....	620,000	243,000	6	1,377,000	34
County Jail and Hall of Justice.....	696,000	278,400	16	417,600	24
Library.....	1,644,000	739,800	18	904,200	22
Playground.....	740,000	740,000	40		
Golden Gate Park.....	328,000	328,000	40		
Mission Park.....	292,000	292,000	40		
	\$17,160,000	\$4,673,600	186	\$12,486,400	174

(Schedule 6.)

DISPOSITION OF PROCEEDS OF BONDS TO JUNE 30, 1905.

Sewers:—		
Services Draughtsmen, Surveyors, etc.	\$661.35	\$680.17
Implements	18.82	
Streets:—		
Services	126.00	
Implements and Chemicals	51.35	177.35
Schools:—		
Lots in 50-vara Lots 188	17,000.00	
Block 3 Mission 30th Street Extension Association	5,600.00	
Lot 25 x 110 in Western Addition Block 523	2,750.00	
Lot 200 x 350 in Block 3 Silver Terrace Tract	10,250.00	
Lot 200 x 240 in University Mound Tract, Block 12	5,000.00	
Lots in Block No. 433	25,683.75	
Abstracts of Title	80.00	
Appraisers	130.00	
Draughtsmen, etc	525.00	
Deed	10.00	
Library:—		
Lots in Block No. 73	269,000.00	67,038.75
Abstract of Title	37.50	
Golden Gate Park Extension:—		
28,463 Bonds	16,500.00	
Expressage on same	102.93	
Lots in Outside Land Blocks 84, 169, 194, 271, 296, 368, and 393	187,710.00	
Abstract of Title	7.50	
Appraiser	75.00	
Mission Park:—		
Blocks No. 86, 87	291,350.00	204,395.43
Abstract of Title	20.00	
Total Audited to June 30, 1905		\$832,689.20

(Schedule 7).
 PROCEEDS SALE OF BONDS NOT DISPOSED OF.

BONDS ISSUED FOR	Sales of Bonds	Disposed of to June 30, 1905 (Audited)	Not Disposed of to June 30, 1905	Additional Amount Disposed of to September 27, 1905 (Audited)	Not Disposed of September 27, 1905
Hospital Building.....	\$250,000.00	\$	\$250,000.00	\$	\$250,000.00
Sewers.....	724,850.00	680.17	724,169.83	11,912.64	712,257.19
School.....	1,077,680.00	67,038.75	1,010,641.25	156,745.33	853,895.92
Streets.....	243,000.00	177.35	242,822.65	906.20	241,916.45
County Jail and Hall of Justice.....	278,400.00		278,400.00		278,400.00
Library.....	739,800.00	269,037.50	470,762.50	219,840.00	250,922.50
Playground.....	740,000.00		740,000.00	150.00	739,850.00
Golden Gate Park Extension.....	328,000.00	204,395.43	123,604.57	28,661.05	94,943.52
Mission Park.....	292,000.00	291,370.00	630.00		630.00
Including \$130 Bonus.....	\$4,673,730.00	832,699.20	\$3,841,030.80	\$418,215.22	\$ 3,422,815.58

AUDITOR IN ACCOUNT WITH TAX COLLECTOR FOR LICENSES
Fiscal Year 1904-05.

	Rate	Number	Amount
Auctioneer	\$ 11.00	50	\$ 550.00
Auctioneer	6.00	200	1,200.00
Bankers	301.00	100	30,100.00
Bankers	101.00	50	5,050.00
Bankers	51.00	100	5,100.00
Baseball	10.00	50	500.00
Baths	3.00	200	600.00
Baths	10.00	50	500.00
Billiard	4.00	100	400.00
Billiard	8.00	2	16.00
Billiard	32.00	4	128.00
Billiard	12.00	10	120.00
Billiard	48.00	4	192.00
Billiard	16.00	11	176.00
Billiard	60.00	4	240.00
Billiard	20.00	5	100.00
Billiard	40.00	4	160.00
Billiard	28.00	3	84.00
Billiard	104.00	1	104.00
Bowling	5.00	50	250.00
Bowling	15.00	8	135.00
Bowling	25.00	6	150.00
Bowling	22.50	4	90.00
Bowling	3.00	1	30.00
Boxing	250.00	4	1,000.00
Boxing	1,200.00	3	3,600.00
Brokers	26.00	50	1,300.00
Brokers	16.00	50	800.00
Brokers	11.00	50	550.00
Brokers	6.00	550	3,300.00
Carpet Beating	10.00	50	500.00
Circus	100.00	50	5,000.00
Gratuitous		1000	
Intelligence Office	16.00	200	3,200.00
Junk	4.00	499	1,996.00
Junk	6.00	88	528.00
Junk	8.00	50	400.00
Junk	1.00	477	477.00
Junk	3.00	50	150.00
Livery	4.00	350	1,400.00
Laundry	6.00	1200	7,200.00
Laundry	10.00	300	3,000.00
Municipal	300.00	5	1,500.00
Municipal	100.00	50	5,000.00
Municipal	75.00	50	3,750.00
Municipal	50.00	150	7,500.00
Municipal	40.00	50	2,000.00
Municipal	30.00	50	1,500.00
Municipal	25.00	300	7,500.00
Municipal	20.00	100	2,000.00
Municipal	19.00	1	19.00
Municipal	15.00	100	1,500.00
Municipal	10.00	900	9,000.00
Municipal	8.00	4	32.00
Municipal	7.50	150	1,125.00
Municipal	6.00	250	1,500.00
Municipal	5.00	1,406	7,380.00
Municipal	4.00	12	48.00
Municipal	3.00	6,292	18,876.00
Municipal	2.00	4	8.00
Municipal	13.00	3	39.00
Municipal	151.00	4	604.00
Municipal	130.00	1	130.00
Municipal	251.00	8	2,008.00
Municipal	72.00	1	72.00
Municipal	9.00	3	27.00
Pawnbroker	31.00	300	9,300.00
R. R. L. D	3.00	1,699	5,097.00

AUDITOR IN ACCOUNT—Continued.

	Rate	Number	Amount
R. R. L. D.	5.00	200	1,000.00
Ring Throwing	5.00	50	250.00
Retail Liquor	21.00	12,800	268,800.00
Runners and Solicitors	10.00	100	1,000.00
Scavengers	2.50	200	500.00
Scavengers	1.50	50	75.00
Show	5.00	50	250.00
Street Railroads	67.50	4	270.00
Street Railroads	112.50	4	450.00
Street Railroads	142.50	4	570.00
Street Railroads	2,437.50	3	7,312.50
Warehouse	10.00	150	1,500.00
Theatres	301.00	50	15,050.00
Theatres	201.00	50	10,050.00
Theatres	76.00	50	3,800.00
Theatres	51.00	50	2,550.00
Theatres	5.00	50	250.00
Dog Tags	2.00	4,797	9,594.00
Duplicates . . . . .	.50	1,000	500.00
Deadly Weapons	3.00	193	579.00
Drivers Cards . . . . .	.50	600	300.00
Drivers' Cards . . . . .	.75	46	34.50
Drivers' Cards	1.00	46	46.00
Drivers' Cards	1.25	10	12.50
Drivers' Cards	1.50	7	10.50
Drivers' Cards	2.00	5	10.00
Drivers' Cards	2.25	6	13.50
Drivers' Cards	2.50	20	50.00
Drivers' Cards	2.75	1	2.75
Guide Badges	2.50	4	10.00
Nickel-in-Slot	10.00	5,747	57,470.00
Nickel-in-Slot	2.00	1,347	2,694.00
Peddlers	6.00	2,550	15,300.00
Street Solicitors	1.50	2	3.00
Vehicles Number	1.00	869	869.00
Vehicle Numbers	1.50	100	150.00
Vehicle Numbers	3.50	103	360.50
Vehicle Numbers	3.75	1	3.75
Vehicle Numbers	2.00	100	200.00
Plates . . . . .	.50	380	190.00
Public Works	1.00	149	149.00
Public Works	1.50	2,800	4,200.00
Public Works	1.75	400	700.00
Public Works	2.00	100	200.00
Public Works	2.25	100	225.00
Public Works	2.50	900	2,250.00
Public Works	2.75	100	275.00
Public Works	3.00	400	1,200.00
Public Works	3.25	50	162.50
Public Works	3.50	50	175.00
Public Works	3.75	2	7.50
Public Works	4.00	200	800.00
Public Works	4.50	100	450.00
Public Works	5.00	250	1,250.00
Public Works	5.25	50	262.50
Public Works	5.50	100	550.00
Public Works	6.00	50	300.00
Public Works	6.50	50	325.00
Public Works	7.00	50	350.00
Public Works	7.50	100	750.00
Public Works	8.00	50	400.00
Public Works	8.50	50	425.00
Public Works	9.00	50	450.00
Public Works	10.00	150	1,500.00
Public Works	10.50	50	525.00
Public Works	11.00	50	550.00
Public Works	12.00	50	600.00
Public Works	12.50	2	25.00
Public Works	13.50	2	27.00

AUDITOR IN ACCOUNT—Continued.

	Rate	Number	Amount
Public Works	14.00	50	700.00
Public Works	14.50	1	14.50
Public Works	15.00	51	765.00
Public Works	15.50	1	15.50
Public Works	16.50	2	33.00
Public Works	17.00	4	68.00
Public Works	17.50	3	52.50
Public Works	18.00	1	18.00
Public Works	18.50	3	55.50
Public Works	19.00	2	38.00
Public Works	19.50	1	19.50
Public Works	20.00	2	40.00
Public Works	20.50	4	82.00
Public Works	21.50	3	64.50
Public Works	22.00	2	44.00
Public Works	22.50	3	67.50
Public Works	23.00	2	46.00
Public Works	23.50	1	23.50
Public Works	24.00	1	24.00
Public Works	24.50	1	24.50
Public Works	25.00	3	75.00
Public Works	25.50	1	25.50
Public Works	26.50	2	53.00
Public Works	27.00	1	27.00
Public Works	27.50	3	82.50
Public Works	28.00	5	140.00
Public Works	28.50	1	28.50
Public Works	29.00	3	87.00
Public Works	29.50	1	29.50
Public Works	30.00	2	60.00
Public Works	31.00	3	93.00
Public Works	32.50	3	97.50
Public Works	33.00	1	33.00
Public Works	33.50	1	33.50
Public Works	33.75	1	33.75
Public Works	34.00	3	102.00
Public Works	34.50	1	34.50
Public Works	36.50	1	36.50
Public Works	37.50	1	37.50
Public Works	39.50	1	39.50
Public Works	40.00	4	160.00
Public Works	40.50	1	40.50
Public Works	42.00	1	42.00
Public Works	43.00	2	86.00
Public Works	45.00	1	45.00
Public Works	45.50	1	45.50
Public Works	46.50	1	46.50
Public Works	47.00	1	47.00
Public Works	53.50	1	53.50
Public Works	55.00	2	110.00
Public Works	56.50	1	56.50
Public Works	51.75	1	51.75
Public Works	51.00	1	51.00
Public Works	57.50	1	57.50
Public Works	58.00	1	58.00
Public Works	65.50	1	65.50
Public Works	70.00	1	70.00
Public Works	78.00	1	78.00
Public Works	79.00	1	79.00
Public Works	84.00	1	84.00
Public Works	87.50	1	87.50
Public Works	98.00	1	98.00
Public Works	100.00	1	100.00
Public Works	103.00	1	103.00
Public Works	109.00	1	109.00
Public Works	117.00	1	117.00
Public Works	122.00	1	122.00
Public Works	135.50	2	271.00
Public Works	275.50	1	275.50

RECAPITULATION

Licenses Issued During Year, 56,398.....	\$594,671.50
Licenses Returned During Year, 4,925.....	84,042.75
Licenses Sold During Year, 51,473.....	510,628.75
Defalcation, E. J. Smith.....	322.00
Money Deposited in Treasury.....	510,306.75

San Francisco, April 21st, 1905.

To the Honorable Board of Supervisors,
of the City and County of San Francisco.

Gentlemen:—I herewith submit for your consideration, as provided by Article III, Chapter 2, of the Charter, the Auditor's Annual Estimate of the revenues and expenditures of the municipality for the fiscal year 1905-1906.

In making up this statement I have carefully considered the wants in detail of every Board, Commission and Department, and while it is possible that I may not have recommended the amounts asked for in all instances, I have made an honest effort to be fair and liberal to each branch of the Municipal government, so that their work shall not be crippled but rendered more efficient.

The city's steady increase in population is manifest in the amounts needed for new improvements, in street work, additions to school houses, hospitals, jails; etc., which necessarily requires a heavier expense in providing for maintenance, supplies, and proper police and fire protection for lives and property; and it follows that an increased expenditure is required in nearly every branch of the government.

I have recommended an increase of about 100 officers for the Police Department. In suggesting an increase of officers in this Department, I am actuated by a desire to have the city properly protected for the invasion of the criminal classes. The Chinese and the Latin quarter (where crime is rampant) and the outside districts, should be properly policed and the homes and lives of law abiding citizens protected.

I have carefully considered the wants of the Fire Department and submit to you an increase for the regular running expenses thereof. New companies should be organized in the rapidly growing districts from Ashbury Heights to the ocean; also the Richmond district, the Potrero and South San Francisco, as the companies located in these territories are inadequate to cope with the common enemy.

In the matter of the appropriation to maintain the School Department, I have been as liberal as the law will permit, taking into consideration the estimated amount of the Assessment Roll, and having in view the fact that several new classes will be added to our schools which will necessitate additional teachers. I have therefore recommended an increase of \$37,500 for salaries.

The same may be said of the Board of Public Works and other Departments, for all of which I am inclined to recommend a moderate increase for improvements and current expenses.

Several Departments have asked for increases of the salaries for their subordinates, without giving any sufficient reason therefor. As the Charter is very explicit in the matter of salaries, wages, etc., I most respectfully decline to recommend these additional expenses.

The following recommendations for new improvements, other than those which I have specified above in detail, are submitted:

Electric System for Municipal Building.....	\$	7,200
New Fire Alarm System in the School Department.....		15,000
New Engine House and Equipments.....		50,000
Purchase of Right-of-Way.....		35,000
Improvements to Municipal Buildings and Fitting up Offices.....		25,000
Repaving Streets and Reconstruction of County Roads.....		100,000
Repairs and Alterations to School Buildings.....		40,000

Very respectfully,

HARRY BAEHR, Auditor

AUDITOR'S ESTIMATE OF THE PROBABLE RECEIPTS AND REQUIRED EXPENDITURES OF THE MUNICIPAL GOVERNMENT FOR THE FISCAL YEAR 1905-1906.

Advertising for City and County Officers.....	\$32,500	32,500
Assessors' Department:—		
Assessor's Salary.....	8,000	
Cashier and Deputies.....	15,000	
Clerks.....	25,000	
Extra Clerks.....	46,000	
Field Expenses.....	1,000	
Maps and Charts.....	1,000	
Stationery.....	4,000	100,000
Auditor's Department:—		
Auditor, Deputy and Assistants.....	18,500	
Assessment Roll:—		
Computing, etc.....	15,000	
Bond Clerk and Stenographer.....	1,200	
Incidentals.....	1,000	
Stationary, including Arithmometer.....	3,500	39,100
License Blank Tags, and Numbers.....	3,000	3,000
Burial of Indigent Dead.....	4,500	4,500
Coroner's Expenses:—		
Coroner and Assistants, Salaries.....	18,520	
Maintenance.....	3,250	21,770
City Directories.....	600	600
City Attorney's Office:—		
City Attorney and Assistants.....	22,100	
Defense of Suit S. V. W. Co. vs. City & County.....	15,000	
Condemnation, Proceedings Ex.....	5,000	
Reporter's Fees, Etc.....	750	
Printing Transcripts, Etc.....	750	43,600
County Clerk's Office:—		
County Clerk and Assistants.....	76,600	
Printing Transcripts on Appeal, etc.....	2,400	
Jury Fees and Witness Expense (Criminal).....	30,000	
Grand Jury Expenses.....	5,000	
Jury (Trial) Expenses, Meals, Etc.....	1,000	115,000
Court Interpreters.....	7,200	7,200
Civil Service Department:—		
W Commission and Assistants.....	8,700	8,700
Department of Elections:—		
Salaries of Commission and Registrar.....	7,400	
Salaries Deputies, Clerk and Stenographer.....	35,200	
Salaries, Storekeeper and Caretaker of Voting Machines.....	3,000	
Salaries for Election Officers.....	24,800	
Advertising.....	1,000	
Ballot Paper and Expressage.....	1,200	
Printing, Binding and Stationary.....	18,000	
Erecting and Taking Down Booths.....	5,000	
Repairs to Booths.....	6,000	
Furnishing Booths—Lamps, Etc.....	2,000	
Livery and Expressage.....	600	
Auditor's Estimate:—		
Rent of Polling Places.....	1,750	
Telephone Service.....	50	
Copying Assessment Roll, Federal, Municipal and State Employees.....	2,000	108,000
Department of Electricity:—		
Electrician.....	2,400	
Inspectors.....	5,400	
Battery-men (2).....	2,160	
Electrical Engineers (4).....	4,320	
Instrument Makers (9).....	9,720	
Machinists (3).....	3,240	
Operators.....	8,400	
Repairs.....	2,160	
Stenographers and Clerks.....	4,800	
Storekeeper.....	1,200	
Linemen.....	12,960	
Wiremen.....	3,240	
Helpers.....	900	

AUDITOR'S ESTIMATE—Continued.

Carpenters and Supplies.....	750	
Blacksmiths.....	1,200	
Pavers and Rammers.....	1,200	
Painters.....	1,200	
Foreman.....	600	
Laborers.....	3,600	
Bricklayers and Hodcarriers.....	750	
Hostlers and Teamsters.....	2,160	70,200
Castings and Forgings.....	2,000	
Cable and Wire.....	7,000	
Cement, Lime.....	500	
Chemicals.....	300	
Electrical Material.....	5,000	
Gravel and Rock.....	1,000	
Harness and Repairs.....	450	
Hardware.....	2,800	
Horse Shoeing.....	300	
Horses.....	800	
Instruments and Material.....	3,000	
Incidentals.....	500	
Iron Work.....	2,000	
Lamps and Repairs.....	250	
Livery and Horsekeeping.....	2,400	
Leather and Findings.....	440	
Lumber and Millwork.....	3,000	
Machinery.....	1,000	
Paints and Oils.....	1,250	
Photo Material.....	200	
Repairs to Tools.....	500	
Washing.....	250	
Wire.....	2,000	
Wagon Material.....	500	39,600
Electric Lighting Municipal Buildings.....	7,200	7,200
Local Fire Alarm System, Public Schools.....	15,000	15,000
District Attorney's Office:—		
District Attorney and Assistants.....	37,400	
District Attorney Contingent.....	2,500	39,900
Examination of Insane.....	5,000	5,000
Examining Books of Public Officers, Etc.....	1,000	1,000
Fire Department:—		
Commissioners and Secretary.....	7,200	
Chief Engineer and Assistants.....	9,400	
Battalion Chiefs.....	18,900	
Engine Companies.....	480,200	
Relief Engine Co.'s.....	31,320	
Truck Companies.....	145,320	
Water Tower Companies.....	3,840	
Chemical Companies.....	39,840	
Monitor Batteries.....	2,280	
Injured Firemen.....	7,500	
Extram.....	28,800	
Corporation Yard Employees.....	47,100	
Stable.....	10,300	832,000
Apparatus.....	28,000	
Forage.....	37,500	
Fuel.....	10,000	
Horses.....	20,000	
Hose.....	8,000	
Horse Shoeing.....	7,000	
Hydrants Set and Reset.....	18,000	
Material and Supplies.....	44,000	172,500
New Engine Houses and Equipments.....	50,000	50,000
Fourth of July Expenses.....	2,500	2,500
Memorial Day expenses.....	500	500
Furniture, Public Buildings.....	8,000	8,000
Relief and Exempt Firemen.....	5,000	5,000
Health Department—Alms House:—		
Salaries.....	26,000	
Maintenance and Supplies, Etc.....	64,000	90,000
Board of Health:—		
Health Officer.....	3,000	
Secretary (Deputy Health Officer).....	1,800	
Sanitary Inspectors.....	8,400	

AUDITOR'S ESTIMATE—Continued.

City Physician and Assistants.....	2,700	
Chemists.....	1,800	
Chemist Assistants.....	2,700	
Bacteriologist.....	1,800	
Statistician.....	1,800	
Clerks.....	4,800	
Food Inspectors.....	7,200	
Chief Plumbing Inspector.....	1,620	
Plumbing Inspectors.....	6,300	
Dairy Inspectors.....	4,800	
Market Inspectors.....	6,000	
Disinfectors.....	2,400	
Messenger and Clerk.....	1,200	
Sterilizer (Engineer).....	1,200	
Inspectors—General Nuisance.....	1,200	
Inspectors—Disinterment.....	1,200	
Maintenance.....	8,000	69,920
Emergency and Insane Hospitals:—		
Chief Surgeon.....	2,400	
Assistant Surgeons.....	12,000	
Chief Steward.....	1,320	
Assistant Stewards.....	5,880	
Nurses.....	7,200	
Ambulance Drivers.....	7,200	
Maintenance.....	10,000	46,000
City and County Hospital:—		
Salaries.....	45,000	
Maintenance.....	75,000	120,000
Smallpox Hospital and Leper:—		
Salaries.....	7,740	
Maintenance.....	6,920	14,660
Interment ex-Union Soldiers and Sailors.....	3,500	3,500
Superior Court:—		
Superior Judges.....	24,000	
Secretary.....	1,800	
Reporter's Fees.....	25,000	50,800
Justices' Court:—		
Justices of Peace.....	12,300	
Clerk and Assistants.....	8,400	20,700
Law Library:—		
Librarian.....	2,400	
Bookbinder.....	1,200	
Messenger.....	1,080	
Repairs.....	1,000	5,680
Law and Motion Calendar.....	3,300	3,300
Mayor's Office:—		
Mayor—Secretary.....	8,400	
Mayor Stenographer.....	1,800	
Mayor Usher.....	900	
Contingent Expenses.....	3,600	14,700
Maintenance of Minors:—		
Feeble Minded Home.....	20,000	
Magdalen Asylum.....	7,500	
Non Sectarian Institutions.....	14,000	
Preston School of Industry.....	7,000	48,500
Whittier State School.....	7,000	
Municipal Reports.....	5,000	5,000
Police Department:—		
Four Commissioners.....	4,800	
Secretary.....	1,500	
Stenographer.....	1,500	
Surgeon.....	1,500	
Chief of Police and Chief Clerk.....	6,400	
Property Clerk.....	2,400	
Captain of Detectives.....	3,000	
Captains of Police.....	16,800	
Lieutenants.....	21,840	
Detective Sergeants.....	45,000	
Sergeants of Police.....	75,000	
Corporals.....	30,890	
Patrolmen.....	856,800	
Matrons.....	1,440	
Hostler.....	900	

AUDITOR'S ESTIMATE—Continued

Telephone Operators (3)	1,800	
Drivers of Patrol	25,920	1,097,490
Police Patrol Expenses	24,000	24,000
Police Rents	3,080	3,080
Laundry and Photo Supplies	580	580
Police Contingent Expenses	8,000	8,000
Police Subsistence of Prisoners	6,000	6,000
Police Courts:—		
Police Judges	14,400	
Police Stenographers	9,600	24,000
Public Pound Expenses	8,000	8,000
Recorder's Office:—		
Recorder, Deputies, Etc.	12,900	
Folio Clerks	30,000	
Machinist	1,200	44,100
Sheriff's Department:—		
Sheriff and Assistants	85,700	85,700
Subsistence of Prisoners and Maintenance of Jails	48,000	48,000
Horse Keeping, Shoeing, Livery, Repairs to Wagons	1,420	1,420
Supervisors:—		
Supervisors, Clerks and Assistants	43,200	
Clerk of Board of Equalization	500	
Printing Ordinances	2,500	
Public Utilities, Examining into	5,000	
Purchase of Typewriters and Repairs	1,000	
Stationery, Printing and Binding and Typewriters	30,000	
Telephone Operators	1,800	84,000
Purchase of Right-of-Way	25,000	25,000
Tax Collector's Office:—		
Tax Collector	4,000	
Deputies, Cashier and Clerks	64,800	
Livery	240	69,040
Treasurer:—		
Treasurer and Assistants	14,800	14,800
Urgent Necessities	36,000	36,000
Water for Municipal Purposes	115,000	115,000
Water Investigation	750	750
General Office:—		
Commissioners and Secretary	13,800	
Bookkeepers	3,600	
Experienced Clerks	3,300	
Ordinary	1,200	
Stenographers	5,160	
Messenger	900	27,960
Bureau of Light and Water:—		
Inspector	1,800	
Supplies	1,200	
Livery	420	3,420
Lighting Streets and Public Buildings	320,000	320,000
Bureau of Buildings:—		
Stenographer and Acting Superintendent	1,800	
Architect	3,000	
Draughtsmen	3,000	
Four Assistants	4,500	
Inspectors	10,200	
Livery	2,520	
Drawing Instruments and Supplies	1,000	26,020
Bureau of Engineer:—		
City Engineer	5,000	
Assistant Chief	3,600	
Assistant Engineers	9,600	
Surveyors	11,160	
Draughtsmen	6,000	
Field Assistants	16,800	
Chemist and Assistant	2,700	
Stenographer	1,080	
Experienced Clerks	2,700	58,640
Blue Prints	300	
Instruments	1,200	
Livery	420	
Incidentals, carfare	720	
Miscellaneous Supplies	1,360	4,000

AUDITOR'S ESTIMATE—Continued.

Maintenance of City Hall & Hall of Justice:—		
Head Janitor and Chief Assistants	40,800	
Engineers	2,400	
Firemen.....	2,160	
Elevator Conductors	4,500	
Watchman	1,080	
Locksmith.....	1,200	52,140
Bureau of Streets:—		
Office Deputy.....	2,400	
Clerks.....	9,000	
Cashier	1,800	
Messenger.....	900	
Stenographer	1,200	
Inspectors	9,000	
Watchmen.....	2,700	
Livery.....	420	
Livery.....	420	27,420
Corporation Yard Expenses:—		
Keeper and Assistants	4,080	
Lantern Wagon.....	1,800	
Carpenters (2)	2,650	
Stonecutter.....	1,500	
Rents.....	1,380	11,410
Bridges:—		
Engineers	3,600	
Watchmen.....	4,500	
Repairs—Fuel, Paint, Etc	4,000	12,100
Maintenance and Repairs to Municipal Buildings:—		
Blue Prints	250	
Bituminous Repairs.....	1,000	
Cement, Lime and Brick	2,000	
Chimney Work	750	
Cartage.....	500	
Elevator Repairs	500	
Electric Supplies.....	1,500	
Concrete	500	
Fuel	8,000	
Furniture Repairs.....	2,500	
Glazing	1,000	
Hardware.....	5,000	
Ice and Filters	500	
Incidentals.....	1,000	
Inspecting Elevators.....	600	
Janitorial Supplies.....	4,000	
Locksmithing Supplies.....	1,500	
Lumber	7,500	
Marble	1,100	
Paints and Oils.....	9,000	
Plumbing Material.....	5,000	
Repairs to Clocks, Roofs and Incidental Repairs	2,000	
Rubber Goods—Hose, Etc.....	1,500	
Scavenger Work.....	5,000	
Towel Service.....	500	
Typewriter Repairs, Etc.....	500	
Wire Rope	1,500	
Bricklayers and Hodcarriers.....	500	
Carpenters.....	10,000	
Cement and Finishers	1,200	
Painters.....	10,000	
Plasterers	2,400	
Plumbers	8,000	
Tinners, Etc	2,400	
Labor, Etc.....	3,600	105,300
New Improvements to Buildings	25,000	25,000
Maintenance—Streets, Sewers & Roads, Etc. & Water Front		
Basalt Blocks.....	5,000	
Bituminous Repairs.....	30,000	
Brick, Lime and Cement.....	5,000	
Brooms, Brushes, Etc.....	1,500	
Cartage.....	650	
Cordage, Sacks, Etc.....	500	
Chemicals, Oils, Etc.....	1,500	
Flags (Signal).....	250	

AUDITOR'S ESTIMATE—Continued.

Electric Power	250	
Forgings and Castings	3,500	
Gravel, Rock, Etc	2,500	
Granite	3,500	
Hardware	5,000	
Hose	2,000	
Lamps and Repairs	1,000	
Iron and Steel	2,000	
Livery	4,000	
Lumber	3,000	
Powder	500	
Rubber Goods	1,200	
Repairs to County Roads	10,000	
Repairs to Vehicles	650	
Resetting Hydrants	600	
Sewer Pipe	6,000	
Sweeping and Cleaning Streets	220,000	
Water	6,000	
Superintendents and Assistants	5,400	
Bricklayers and Hodcarriers	15,000	
Carpenters	3,600	
Caretakers of Fountains	1,200	
Cement Finishers	1,500	
Laborers	30,000	
Pavers and Rammers	20,000	
Sewer Cleaners and Flushers	18,000	
Stone Cutters	1,200	
Teamsters	20,000	432,000
Work in Front of City Property	10,000	10,000
Repaving, Widening and Reconstruction of Streets and County Roads		100,000
School Department:—		
Superintendent	4,000	
Superintendent Deputies	9,600	
Board of Directors	12,000	
Secretary	1,800	
Secretary Assistants	3,300	
Stenographers	2,700	
Messengers	2,016	
Storekeeper	1,800	
Storekeeper Assistants	2,400	
Scavenger	1,884	
Teamster	1,200	
Inspector of Buildings	1,620	
Janitors	51,000	
Teachers	906,000	
Census Marshals	10,000	
Alterations and General Repairs, Etc	40,000	
Playground 7th and Harrison Sts.	6,000	
Teachers' Annuity	3,500	
Advertising	100	
Apparatus	3,000	
Books—Indigent and Supplies	22,000	
Carfare and Incidentals	1,000	
Cartage	600	
Cement and Pipe	1,000	
City Directories	50	
Cleaning and Repairs to Vaults	2,500	
Drums and Repairs	250	
Furniture	20,000	
Fuel	7,500	
Glass and Glazing	2,000	
Groceries	2,000	
Hardware	2,500	
Ice	150	
Janitors' Supplies	4,000	
Laboratory	2,500	
Lighting	4,000	
Livery	1,260	
Lumber and Millwork	5,000	
Manual Training	1,200	
Medals	150	
Miscellaneous (Carfare, Etc)	770	

AUDITOR'S ESTIMATE—Continued.

Paints and Oils	2,500	
Portable Schools	8,000	
Printing.....	3,000	
Rent of Rooms	10,000	
Telephone and Telegraph Service	150	
Water.....	14,000	
Additional Teachers	37,500	1,219,500
Maintenance of High Schools:—		
Salaries and Wages	175,000	
Repairs, Books, Etc	20,000	195,000
Free Public Library:—		
Salaries.....	40,000	
Books	19,500	
Periodicals	2,500	
Binding	4,600	
Rent and Fuel	2,000	
Printing and Stationery	2,000	
Repairs.....	1,500	
Catalogues	1,500	
Furniture and Repairs.....	4,500	
Insurance	400	
Incidentals.....	1,000	79,500
Firemen's Relief and Pension Fund	25,000	25,000
Park Fund, 7% on Value Assessed \$510,000,000.....	357,000	357,000
Estimated Revenue Other Than Taxes:—		
Fees From City and County Officers.....	200,000	
Fines From Poliec Courts	28,000	
Fines From Superior Courts	1,000	
Municipal Licenses	495,000	
Rents From City Property	5,000	
Commission on Unsecured Personal Property Taxes.....	15,000	
Treasurer's Collateral Inheritance	5,500	
Commission on Poll Tax	17,000	
Miscellaneous Revenue	1,500	
Percentage on Franchise	35,000	
Subsistence of Prisoners, U. S.	6,000	
Advertising.....	10,000	
Building Permits	20,000	
Library Fines	3,000	
School Apportionment.....	700,000	
School Rents	58,000	1,600,000
Less Firemen's Relief and Pension Fund		45,500
		\$1,554,500

TAX LEVY.

Estimated on a Basis of \$510,000,000.

Funds.	Expenditures.	Revenue Other Than Taxes.	Revenue From Taxes.	Levy.
General Etc	\$5,135,500	\$793,500	*\$4,342,000	.8514
Primary & Grammar Schools	1,219,500	733,000	486,500	.0954
High Schools	195,000	25,000	170,000	.0333
Library.....	79,500	3,000	76,500	.015
Firemen's Relief Fund.....	25,000		25,000	.0049
	\$6,654,500	\$1,554,500	\$5,100,000	\$1.00
Park Fund 7% on Ass'dVal	\$ 382,000	\$ 25,000	\$ 357,000	\$.07

BILL NO. 1724.

ORDINANCE NO. 1513.

An Ordinance fixing and appropriating the aggregate sum and the items thereof, allowed to each Department, Office, Board and Commission for the fiscal year ending June 30, 1906, and making a Budget of the Same.

Be it ordained by the people of the City and County of San Francisco, as follows:

Section 1. The aggregate sums and the items thereof hereinafter set forth are hereby fixed, designated and appropriated for the respective purposes set opposite the same, to be expended during the fiscal year ending June 30, 1906, in accordance with the provisions of Article III, Chapter I, of the Charter of the City and County, to-wit:

GENERAL FUND.		
PERMANENT IMPROVEMENTS:—		
Geary Street Road—		
For the construction of a Municipal Street Railroad from Market Street along Geary Street to Point Lobos avenue; along Point Lobos avenue to 10th avenue; thence along 10th avenue to Fulton street; also for the purchase of a site for a car and power house and for the construction or purchase of a building.		\$350,000.00
Twin Peaks Auxiliary Water Supply System for increased fire protection (reappropriated).		150,000.00
For the purchase of land for the preservation of Telegraph Hill.		25,000.00
For the improvement of proposed road extending from Ocean avenue near Corbett avenue to the County line—the lands for this purpose to be donated		17,500.00
For the improvement of Precita Valley swamp—acquisition of lands, filling in of roadway and the construction of sewers on York and Hampshire Streets.		15,000.00
For the construction of a bridge and improvement of the roadway at San Jose and Mount Vernon avenues		15,000.00
For the construction of the approach to the new Third street bridge crossing Channel street iron cylinders and "I" beams, with concrete and ballasted roadway.		12,000.00
For the removal of the bluff and the grading of city property at Twentieth and Kentucky streets		7,500.00
For the construction of a convenience station at the South-of-Market district.		7,500.00
For the completion of the pavement on Mission street to the county line.		7,000.00
For construction of new elevator in City Hall.		6,500.00
For the purchase of land from Seventeenth street and Clara avenue to Corbett avenue.		5,000.00
For the construction of safety stations on Market street at Battery, Montgomery, Grant and Taylor streets—four stations.		5,250.00
For the purchase of land for the extension of Piedmont street, preliminary to establishing a fire house for the protection of Ashbury Heights district.		4,000.00
For the construction of a bronze balustrade around the first gallery in the rotunda of the City Hall		4,000.00
For the installing of an Oil Plant in the City Hall		2,500.00
For the purchase of land for the extension of Manchester street to Bessie avenue.		1,500.00
For the construction of culverts or bridges in the University Mound district—Wayland street near Princeton; Barneveld avenue and Sweeny; Barneveld avenue and Gaven; Thirty-fifth avenue South near K street south.		1,250.00
For the purchase of street signs—additional.		1,000.00
For the acquirement for park purposes of lots of land bounded by Dupont street, St. Mary's Place, California street and Pine street.		25,000.00

For the construction of a Police Station on the north side of Bush street, between Polk street and Van Ness avenue for the location of the North End Police Station	20,000.00
For the construction of an Engine House on the House of Correction tract	11,000.00
For the construction of a firehouse in the district known as Presidio Heights	18,000.00
For the completing of the parking of Dolores street from Fifteenth to Seventeenth streets	1,000.00
REPAIRS AND OILING OF ROADS AND STREETS	
For repair and improvement of Corbett Avenue ..	2,500.00
For repair and improvement of Ocean Avenue	2,500.00
For repair and improvement of San Bruno Avenue ..	2,000.00
For repair and improvement of San Jose Avenue ..	2,000.00
For repair and improvement of Point Lobos Avenue ..	2,000.00
For repair and improvement of View Avenue	500.00
For repair and improvement of road from Alms House to Corbett Avenue	5,000.00
For oiling roads and streets	5,000.00
IMPROVEMENT OF STREETS IN FRONT OF CITY PROPERTY:—	
For improvement of streets in front of city property, including the paving of Baker street with Asphalt or Bituminous rock in front of Panhandle of Golden Gate Park, between Oak and Fell streets	25,000.00
REPAIRS TO PUBLIC BUILDINGS, OTHER THAN SCHOOL BUILDINGS:—	
Fire Department Buildings	25,000.00
City Hall	15,000.00
Jails	8,500.00
Hospital—General Repairs	5,000.00
Painting Interior of Buildings	2,400.00
Extension of Laundry	2,000.00
Almshouse—General Repairs	10,000.00
For new Boiler	1,500.00
Emergency Hospitals and Stables	750.00
Smallpox and Leper Hospitals	600.00
Police Department	5,000.00
Hall of Justice and Morgue	2,500.00
REPAIRS TO BRIDGES:—	
Fourth and Sixth street Bridges	6,000.00
REPAIRS TO STREETS AND SEWERS:—	
Repairs to Bituminous rock and Asphalt pavement Basalt block and cobble streets, including stone cutting	40,000.00
Sewers, cleaning and repairing	51,500.00
Improvement to streets on water front	85,000.00
Improvement of Berry street between Second and Third streets	5,000.00
Third streets	1,500.00
For the purchase of land for widening Mission street between Silver avenue and Tingley street	1,500.00
SUPERVISORS:—	
Salaries Supervisors, Clerks, Assistant Clerks, Clerk Stationery Department, Expert, Ser.-at-Arms Finance Committee, Board of Supervisors, for exp- erting, examining and supervising books, ac- counts and proceedings of public officers and also examining and experting books of persons and corporations having dealings with the city government, in accordance with Article II, Chapter II, Secs. 3 and 4 of the Charter	44,700.00
Clerks, Board of Equalization	8,500.00
Advertising	500.00
Printing Law and Motion Calendar, Daily Trial Cal-endar of Superior Court, Decisions of Supreme Court and Journal of Proceedings of the Board of Supervisors	22,500.00
Burial of indigent dead	3,300.00
Completing purchase and maintenance of burial ground for the indigent dead	4,000.00
ground for the indigent dead	5,000.00

BILL NO. 1724.—ORDINANCE NO. 1513.—Continued.

Interment of deceased United States soldiers and sailors	3,500.00
Maintenance Public Pounds	8,000.00
Municipal Reports.....	4,000.00
For sanitary measures in the district known as Chinatown, to be expended by a special Committee of the Board of Supervisors, with the advice of the State and City Boards of Health and the United States and Marine Hospital Service at this Port	1,500.00
Stationery and printing books, stamps and postal cards	31,500.00
For purchase of city directories	520.00
Stationery and printing, books and postage stamps for the Assessor	4,000.00
Rebinding books	1,000.00
For purchase of book typewriting machines for the County Clerk and the Recorder by the Printing Committee, including repairs	1,200.00
For purchase of ordinary typewriting machines for various departments by Printing Committee...	600.00
For the printing and distribution of the report of D. H. Burnham, submitted by the Adornment and Improvement Association	3,000.00
Furniture for Public Buildings	8,000.00
Furniture, special appropriations for remodeling and refitting offices in City Hall and Hall of Justice.....	4,000.00
Expenses Telephone Service, City Hall.....	1,800.00
For expenses connected with the acquirement of "public utilities," to be expended under direction of the Public Utilities Committee, and for the purpose of investigating available sources of water supply.....	5,000.00
Celebration of the Fourth of July	2,500.00
Observance of Memorial Day.....	500.00
Grand Jury Expenses.....	2,000.00
Urgent Necessities.....	36,000.00
WATER FOR MUNICIPAL PURPOSES:—	
Public Buildings excepting schools.....	14,000.00
Hydrants.....	50,000.00
Expenses investigation water rates and copying...	700.00
Maintenance of minors in Magdalen Asylum.....	8,000.00
Maintenance of Minors in State Schools.....	10,000.00
Maintenance of minors in non-sectarian institutions	14,000.00
Maintenance of the Juvenile Detention Station ...	4,500.00
Maintenance of the feeble-minded children.....	20,000.00
Maintenance of the criminal insane in State Hospitals.....	1,000.00
Examination of insane persons.....	5,000.00
Lighting streets and public buildings.....	320,000.00
MAYOR:—	
Office salaries.....	11,100.00
Contingent expenses.....	3,600.00
AUDITOR:—	
Salaries Auditor, deputies, clerks and counsel fees	13,600.00
Salaries Auditor's five extra clerks at \$1200.....	6,000.00
Auditor for incidental expenses.....	500.00
Assessment roll, allowed Auditor for ordinary or experienced clerks, appointed under the provisions of Article XIII of the Charter for computing, extending, etc., the assessment roll.....	10,000.00
The auditor is hereby notified that this appropriation is made solely for clerks appointed in accordance with Article XIII of the Charter.	
License tags, blanks and numbers.....	2,000.00
ASSESSOR:—	
Salaries Assessor, cashier, deputies and clerks.....	48,200.00
Salaries Assessor's extra clerks.....	40,000.00
Salaries Assessor's additional clerks.....	6,000.00
Expenses Assessor's field deputies.....	1,000.00
CORONER:—	
Salaries Coroner, Autopsy Physician, deputies, stenographer and messenger.....	16,000.00

BILL NO. 1724.—ORDINANCE NO. 1513.—Continued.

Salaries additional employees:—		
Matron at the Morgue.....	\$720.00	
Messenger.....	900.00	
Morgue's Keeper.....	900.00	2,520.00
Coroner's Expenses.....		3,345.00
RECORDER:—		
Salaries Recorder and deputies.....		8,400.00
Salaries of additional employees allowed by ordinance and compensation of copyists.....		37,500.00
TAX COLLECTOR:—		
Salaries of Tax Collector, deputies and cashier....		31,300.00
Salaries of Tax Collector's additional employees, allowed by ordinances.....		3,600.00
Salaries of Tax Collector's extra clerks, being for ordinary or experienced clerks appointed under the provisions of Article XIII of the Charter.. The Auditor is hereby notified that this appropriation is made solely for clerks appointed in accordance with Article XIII of the Charter..		32,400.00
Allowance for horses and buggies.....		240.00
Publishing delinquent tax list.....		2,000.00
One adding machine.....		375.00
TREASURER:—		
Salaries Treasurer, deputies and clerks.....		11,200.00
Salaries two additional clerks allowed Treasurer at \$1800.....		3,600.00
Salary of an additional clerk at \$1200.....		1,200.00
One adding machine.....		375.00
JUDGES OF THE SUPERIOR COURT:—		
Salaries of twelve judges and secretary.....		25,800.00
Stenographers, Superior Court.....		18,000.00
Salaries Court Interpreters.....		7,200.00
CITY ATTORNEY:—		
Salaries City Attorney, assistants, clerks, stenographers and messenger.....		22,100.00
Allowance for printing transcripts and briefs.....		750.00
Allowance for witness' and reporters' fees.....		600.00
Allowance for transportation.....		100.00
Expenses in defense of the suit of the Spring Valley Water Co. against the city.....		15,000.00
DISTRICT ATTORNEY:—		
Salaries District Attorney, assistants, clerks, stenographer and bond and Warrant clerks.....		36,200.00
Salaries of an extra assistant and a bookkeeper allowed by ordinance: Assistant.....	\$3,000.00	
Bookkeeper.....	1,200.00	4,200.00
COUNTY CLERK:—		
Salaries County Clerk, cashier and copyists.....		75,400.00
Salary Messenger.....		1,200.00
Printing transcripts on appeal in criminal cases.....		3,000.00
Jury and witness fees in criminal cases.....		25,000.00
Jury expenses in criminal cases.....		800.00
JUSTICES' COURT:—		
Salaries Justices', clerks and assistants.....		26,400.00
LAW LIBRARY:—		
Salary Librarian.....	2,400.00	
Salary Messenger.....	1,080.00	
Salary Bookbinder.....	1,200.00	4,680.00
SHERIFF:—		
Salaries Sheriff's Department under the Charter...		82,400.00
Salaries four additional guards at \$600.00.....		2,400.00
Salary additional van driver.....		900.00
Subsistence of prisoners in County Jail.....		43,000.00
Sheriff for maintenance of Jails.....		6,000.00
Sheriff's expenses		
Horse keeping, prison van.....	600.00	
Shoeing and repairs.....	440.00	
Horse and buggy.....	420.00	
Three sand wagons.....	600.00	2,060.00
POLICE COURT:—		
Salaries:		
Salaries four Judges and two stenographers.....		19,200.00
Salaries two additional stenographers.....		4,800.00

POLICE DEPARTMENT:—

Salaries.....	949,420.00
Police Contingent Expenses.....	8,000.00
Rents, police stations.....	3,090.00
Subsistence of prisoners in City Prison.....	6,000.00
Maintenance Police Patrol and mounted police....	20,000.00
Photographic supplies, laundry work and fuel.....	1,750.00
For purchase of additional horses.....	2,000.00
For purchase of patrol wagons.....	1,000.00

HEALTH DEPARTMENT:—

Salaries—Executive Office.....	3,000.00
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Secretaries, experienced clerks and messengers appointed from the Civil Service eligible list under the provisions of Article XIII of the Charter.....

The Auditor is hereby notified that this appropriation is made solely for secretaries, experienced clerks and messengers appointed from the Civil Service eligible lists in accordance with Article XIII of the Charter.....

7,920.00

Pure Food Laboratory:..

Salaries for Chemists.....	6,120.00
For bacteriological examinations.....	2,400.00
For janitorial help in chemical, bacteriological, toxicological and pure food laboratories..	1,200.00

Medical attendance at prisons and jails and to the indigent sick.....

3,000.00

For Supervision of Sanitary Inspection:—

The Auditor is hereby notified that this appropriation is made solely for appointments from the Civil Service eligible list of Chief Sanitary Inspectors, in accordance with Article XIII of the Charter.....

2,400.00

Plumbing Inspection:—

For appointees from the eligible Civil Service lists of Chief Plumbing Inspectors and Plumbing Inspectors under the provisions of Article XIII of the Charter

The Auditor is hereby notified that this appropriation is made solely for Chief Plumbing Inspectors and Plumbing Inspectors appointed from the Civil Service eligible lists in accordance with Article XIII of the Charter.....

5,520.00

Food Inspection:—

For appointees from the Civil Service eligible lists of Chief Food Inspectors and Food Inspectors under the provisions of Article XIII of the Charter.....

The Auditor is hereby notified that this appropriation is made solely for Chief Food Inspectors and Food Inspectors appointed from the Civil Service eligible lists in accordance with Article XIII of the Charter.....

2,400.00

Dairy Inspection:—

For appointees from the Civil Service eligible lists of Dairy Inspectors under the provisions of Article XIII of the Charter.

The Auditor is hereby notified that this appropriation is made solely for Dairy Inspectors appointed from the Civil Service eligible lists in accordance with Article XIII of the Charter.....

3,600.00

Market Inspection:—

For appointees from the Civil Service eligible lists of Market Inspectors under the provisions of Article XIII of the Charter.

The Auditor is hereby notified that this appropriation is made solely for Market inspectors appointed from the Civil Service eligible lists in accordance with Article XIII of the Charter.....

6,000.00

BILL NO. 1724.—ORDINANCE NO. 1513.—Continued.

Sanitary Inspection:—		
Including inspection of baths, laundries, bakeries, factories, workshops, by appointees from the Civil Service eligible lists for Sanitary Inspectors under the provisions of Article XIII of the Charter.		
The Auditor is hereby notified that this appropriation is made solely for Sanitary Inspectors appointed from the Civil Service eligible lists in accordance with Article XIII of the Charter		4,800.00
For disinfection.		2,400.00
For toxicological examinations and expert testimony relating thereto.		1,200.00
Disinfectant Inspection.		900.00
Expenses:—		
Maintenance of portable sterilizer.		2,700.00
General expenses, supplies and transportation		6,500.00
Emergency and Insane Detention Hospitals:—		
Salaries surgeons, stewards, matrons, drivers .		36,420.00
Expenses and maintenance (including rent of Potrero Emergency Hospital)		10,240.00
Salary for night steward at Potrero Emergency Hospital.		900.00
Purchase of an ambulance.		500.00
Repairs to ambulance.		250.00
Leper or Twenty-sixth street Hospital:—		
Salaries.		4,380.00
Expenses and maintenance.		5,400.00
Smallpox Hospital:—		
Salaries, expenses and maintenance.		2,500.00
Almshouse:—		
Executive Department, for salaries, superintendent, resident physician, clerk, matron commissary, apothecary and other employees.		27,200.00
Expenses and maintenance.		65,300.00
City and County Hospital:—		
Salaries for executive office, including medical supervision, drug department and commissary department.		7,500.00
Salaries secretaries, experienced and ordinary clerks, messengers and watchmen appointed from the Civil Service eligible list under the provisions of Article XIII of the Charter.		
The Auditor is hereby notified that this appropriation is made solely for secretaries, experienced and ordinary clerks, messengers and watchmen appointed from the Civil Service eligible list in accordance with Article XIII of the Charter.		4,860.00
Wages for attendants.		21,680.00
For maintenance, supplies and salaries of nurses.		101,700.00
Special appropriation for ward equipment.		5,000.00
Special appropriation for tents and equipment of same for tuberculosis patients		5,000.00
Chaplain service at the hospital		2,400.00
DEPARTMENT OF ELECTRICITY:—		
Maintenance and Operation:—		
Salaries administration, inspection and office force		18,780.00
Salaries Fire Telegraph Office.		12,720.00
Salaries machine shop for maintenance of system		10,740.00
Material, machine shop for maintenance, castings, iron and brass, copper wire, general machine shop supplies.		2,000.00
Salaries, outside construction, maintenance and work to be performed under Ordinance No. 621.		19,440.00
General maintenance and materials, including stabling.		5,000.00
New equipment and addition to system.		6,980.00

BILL NO. 1724.—ORDINANCE NO. 1513.—Continued.

Overhauling underground systems 1, 2 and 3.....	1,500.00
Outside work and materials under Ordinance No. 621	5,000.00
FIRE DEPARTMENT:—	
Salaries.....	747,630.00
Salaries for new company at Sutro Heights.....	6,720.00
For extra five days' vacation during the year, this making fifty-one days' vacation during the year to each employee.....	7,600.00
Expenses and maintenance.....	103,500.00
For new apparatus—purchase of engines and trucks	18,800.00
DEPARTMENT OF ELECTIONS:—	
Salaries Commissioners and Registrar.....	7,400.00
Salaries two deputy registrars.....	3,600.00
For experienced or ordinary clerks appointed from the Civil Service eligible list under the provisions of Article XIII of the Charter	
The Auditor is hereby notified that this appropriation is made solely for experienced or ordinary clerks appointed from the Civil Service eligible list in accordance with Article XIII of the Charter.....	33,400.00
General expenses of the Department.....	47,330.00
For the purchase of eighty voting machines.....	53,000.00
CIVIL SERVICE COMMISSION: —	
Salaries Commissioners, examiners, clerk and stenographer.....	8,700.00
For the relief of Exempt Firemen.....	5,000.00
BOARD OF PUBLIC WORKS:—	
General Office:	
Salaries Commissioners and Secretary.....	13,800.00
Experienced and ordinary clerks, bookkeeper, stenographer, typewriters and messenger appointed from the Civil Service eligible lists in accordance with Article XIII of the Charter.....	11,700.00
Bureau of Buildings:—	
Salaries, stenographer, typewriters and ordinary clerk, appointed from the Civil Service eligible list under the provisions of Article XIII of the Charter	
The Auditor is hereby notified that this appropriation is made solely for stenographer-typewriter and ordinary clerk appointed from the Civil Service eligible list in accordance with Article XIII of the Charter.	1,500.00
Cleaning and maintaining Hall of Justice and City Hall—Salaries janitors, engineers, firemen, elevator conductors and watchmen.....	47,105.00
Bureau of Streets:—	
Experienced clerks, ordinary clerks, messengers, inspectors of complaints, field deputies, inspectors of streets and sewers, stenographer-typewriters, watchmen, appointed from the Civil Service eligible lists under the provisions Article XIII of the Charter.	
The Auditor is hereby notified that this appropriation is made solely for experienced clerks, ordinary clerks, messengers, inspectors of complaints, field deputies, inspectors of streets and sewers, stenographer-typewriters, watchmen appointed from the Civil Service eligible lists in accordance with Article XIII of the Charter.....	20,100.00
Salaries of three guards under the control of the Sheriff, for repairs to County roads by prisoners at \$780 per annum each.....	2,340.00
Repairs to pavements and repairs and cleaning of sewers:—	
Salaries of superintendents and inspectors appointed from the Civil Service eligible lists under the provisions of Article XIII of the Charter.....	5,400.00

Cleaning and sprinkling of streets:—	
Salary of field deputy.....	2,100.00
Salaries of two inspectors.....	2,400.00
Salaries of watchmen at bunkers.....	2,700.00
For the purchase of three flushing machines.....	3,000.00
For the purchase of three sweeping machines.....	1,000.00
For laborers and sweepers engaged in sweeping and cleaning of streets, rent of teams and appliances, purchase of water and supplies; all work of street sweeping and cleaning to be performed by the City and County; all laborers and sweepers to be taken from such Civil Service lists as are available ..—.....	215,000.00
The Auditor is hereby notified that that portion of this appropriation available for salaries and wages of field deputy, inspectors, watchmen laborers and sweepers is made for field deputy inspectors, watchmen, laborers and sweepers taken from Civil Service eligible lists in accordance with Article XIII of the Charter	
Corporation Yards:—	
Salaries of keepers.....	3,780.00
Salaries of carpenters appointed from the Civil Service eligible list.....	2,400.00
Maintenance of Bridges:—	
Salaries of engineers.....	3,600.00
Salaries of watchmen appointed from Civil Service eligible list under the provision of Article XIII of the Charter.	
The auditor is hereby notified that this appropriation is made solely for watchmen appointed from the Civil Service eligible list in accordance with Article XIII of the Charter.....	
	4,500.00
Maintenance and Supplies:—	
Supplies to janitors, engineers, bridges, scavenging, rents, fuel, horses, and buggies for general office Bureau of Streets and Bureau of Buildings.....	15,000.00
Bureau of Light and Water:—	
Salary Inspector.....	1,800.00
Horse and Buggy Hire.....	420.00
Welsbach supplies and office apparatus.....	1,750.00
Division of Architecture:—	
Salary of Architect.....	3,000.00
Inspectors of buildings, experienced clerks, appointed from the Civil Service eligible list in accordance with Article XIII of the Charter.	
The Auditor is hereby notified that this appropriation is made solely for inspectors of buildings and experienced clerks appointed from the Civil Service eligible list in accordance with Article XIII of the Charter.....	
	9,900.00
Draughtsmen.....	3,300.00
Supplies and hire of horses and buggies.....	2,700.00
Bureau of Engineering:—	
Salary of City Engineer.....	5,000.00
For chief assistant engineer, assistant engineers, surveyors, surveyors' field assistants, experienced clerks, stenographer-typewriters, ordinary clerks, draughtsmen, engineers and surveyors' office assistants appointed from the Civil Service eligible lists under the provisions of Article XIII of the Charter.	
The Auditor is hereby notified that this appropriation is made solely for Chief Assistant Engineer, assistant engineers, surveyors, surveyors' field assistants, experienced clerks, ordinary clerks, stenographer-typewriters, draughtsmen and engineers and surveyors' office assistants appointed from the Civil Service eligible list in accordance with Article XIII of the Charter.....	
	50,520.00
Chemical laboratory.....	2,700.00

BILL NO. 1724.—ORDINANCE NO. 1513.—Continued.

Supplies.....		1,780.00
For the employment of draughtsmen under direction of the City Engineer for the purpose of making maps of the city for assessment purposes		5,500.00
FIREMEN'S RELIEF AND PENSION FUND:—		
Allowance.....		22,000.00
SCHOOL FUND:—		
Surplus of year 1904-1905 (not estimated).		
Amount received from State for 1905-1906 estimated at.....		747,000.00
Rents received from school property in city and county.....		58,000.00
Appropriation towards payment of salaries and expenses of Maintaining school department, including children's playground.....		600,000.00
Appropriations for repairs and sanitary plumbing apportioned to various schools:—		
Adams School.....	\$1,110.00	
Agassiz School.....	910.00	
Bergerot School.....	50.00	
Bernal School.....	1,480.00	
Buena Vista School.....	500.00	
Burnett School.....	5,600.00	
Chinese School.....	225.00	
Clement School.....	285.00	
Cleveland School.....	1,130.00	
Columbia School.....	1,320.00	
Cooper School.....	2,180.00	
Crocker School.....	660.00	
Denman School.....	2,305.00	
Douglass School.....	1,575.00	
Dudley Stone School.....	1,175.00	
Edison School.....	2,500.00	
Emerson School.....	1,000.00	
Everett School.....	2,815.00	
Fairmount School.....	4,030.00	
Franklin School.....	1,290.00	
Fremont School.....	375.00	
Garfield School.....	750.00	
Golden Gate School.....	500.00	
Grant School.....	1,170.00	
Haight School.....	1,505.00	
Hamilton School.....	775.00	
Hancock School.....	1,105.00	
Harrison School.....	935.00	
Hawthorne School.....	1,120.00	
Hearst School.....	750.00	
Henry Durant School.....	1,680.00	
Horace Mann School.....	6,300.00	
Humboldt School.....	950.00	
Hunter's Point School.....	20.00	
Irving Primary School.....	1,330.00	
Irving Scott School.....	2,245.00	
Jackson School.....	50.00	
Jean Parker School.....	510.00	
James Lick School.....	1,145.00	
Jefferson School.....	710.00	
John Swett School.....	1,350.00	
John W. Taylor School.....	300.00	
Lafayette School.....	705.00	
Laguna Honda School.....	200.00	
Lincoln Grammar School.....	7,545.00	
Madison School.....	300.00	
Marshall School.....	400.00	
Mission Grammar School.....	1,900.00	
Monroe School.....	200.00	
Moulder School.....	1,350.00	
Noe Valley School.....	660.00	
Ocean House School.....	260.00	
Oceanside School.....	650.00	
Pacific Heights School.....	4,300.00	
Park School.....	300.00	

BILL NO. 1724.—ORDINANCE NO. 1513.—Continued.

Peabody School.....	1,380.00	
Redding School.....	450.00	
Richmond School.....	210.00	
Rincon School.....	2,200.00	
Sheridan School.....	500.00	
Sherman School.....	655.00	
South End School.....	3,035.00	
Spring Valley School.....	750.00	
Starr King School.....	670.00	
Sutro School.....	510.00	
Sunnyside School.....	50.00	
West End School.....	655.00	
Winfield Scott School.....	695.00	
Whittier School.....	5,735.00	
High and Parental School.....	6,020.00	100,000.00
Total School Fund.....		1,505,000.00
The amount to be used for repairs and sanitary plumbing in this appropriation to be expended by the Board of Public Works upon requisition of the Board of Education in accordance with plans, specifications and estimates of cost by the Board of Public Works, approved by the Board of Education in accordance with Article XII, Chapter VI, Section 2, of the Charter.		
LIBRARY FUND:—		
Salaries and maintenance of Public Library and purchase of books.....		76,500.00
PARK FUND:—		
For maintenance, preservation and Improvement of parks, squares, avenues and public grounds...		357,000.00
BOND REDEMPTION AND INTEREST FUND:—		
For payment of bonds and interest thereon:		
Hospital.....	27,042.00	
Sewers.....	181,200.00	
Schools.....	94,091.00	
Streets.....	93,190.00	
County Jail and Addition to Hall of Justice.....	20,010.00	
Library.....	49,947.00	
Children's Playgrounds.....	28,538.00	
Golden Gate Park and Presidio Extension.....	13,015.00	
Mission Park.....	11,587.00	
Total.....		\$7,765,620.00

In Board of Supervisors, San Francisco, June 15th, 1905.

After having been published five successive days, according to law, taken up and passed by the following vote:

Ayes—Supervisors Alpers, Bent, Booth, Boxton, Brandenstein, Brauhart, Connor, D'Ancona, Eggers, Gallagher, Hocks, Lunststedt, McClellan, Payot, Rea, Sanderson.

Absent—Supervisors Comte, Rock.

CHAS. W. FAY, Clerk.

Approved: San Francisco, June 15, 1905.

E. E. SCHMITZ,

Mayor and ex-officio President of the Board of Supervisors.

AUDITOR

PERSONNEL OF THE AUDITING DEPARTMENT

AUDITOR	HARRY BAEHR
ATTORNEY	WILLIAM H. COBB
DEPUTY	WILLIAM WILKINSON
ASSISTANT DEPUTY	DANIEL J. LEARY
ASSISTANT DEPUTY	BENNING WENTWORTH
CHIEF CLERK	JOHN G. LIEBERT
WARRANT CLERK	HENRY INGWERSON
REGISTER CLERK	J. B. LEWIS
REGISTER CLERK	NATALIE A. MAISON
REDEMPTION CLERK	HORACE L. CROCKER
FEE CLERK	DANIEL A. MAHER
JANITOR	MICHAEL HAYES

Treasurer's Report

SAN FRANCISCO, August 21, 1905.

To the Honorable Eugene E. Schmitz,
Mayor of the City and County of San Francisco:—

My Dear Sir:

In accordance with the provisions of the Charter, I herewith submit to you the annual report of the Treasurer's Office, showing receipts and disbursements for the Fiscal Year 1904-1905.

Very respectfully,

JOHN E. McDOUGALD,

City and County Treasurer.

TREASURER'S REPORT CITY AND COUNTY OF SAN FRANCISCO FOR THE FISCAL YEAR 1904-1905.

	Amount	Total
RECEIPTS		
Balance on hand 30th day of June, 1904.....		\$1,938,663.28
General Fund 1904-1905		
Taxes.....	\$4,213,242.66	
Police Court Fines Dept. No. 1.....	6,987.00	
Police Court Fines Dept. No. 2.....	5,221.00	
Police Court Fines Dept. No. 3.....	15,553.50	
Police Court Fines Dept. No. 4.....	7,619.00	
City and County Licenses.....	509,820.75	
Mayor—Rent of City Property.....	7,078.30	
Mayor—Sale of Old Fire Horses.....	206.10	
Mayor—Sale of Old Horses of Fire Dept., Jail and Almshouse.....	1,171.40	
Board of Public Works.....	23,856.00	
Board of Public Works Sale of Old Material.....	1,044.00	
Superior Court Fines.....	125.10	
Police Dept.—Board of Prisoners en route.....	84.00	
Auditor—Fees from State Lunacy Commission.....	330.00	
Sheriff—Board of U. S. Prisoners.....	2,994.40	
Coroner—Money taken from person of decedents.....	151.78	
Board of Supervisors—Taxes paid on City Property..	214.24	
Board of Supervisors—Rent House Correction Tract..	100.00	
5% Gross Receipts Geary Street Railroad.....	7,440.38	
6% Commission Assessor Taxes.....	12,852.31	
Money returned from U. S. Government—Freight on Ballots, Contest Livernash vs. Kahn.....	57.42	
Redemption of Property Sold to State.....	15,461.20	
Tax Collector Sales.....	11,469.11	
Refund of Taxes under (Section 3804 P. C.).....	1,063.73	
Railroad Taxes.....	1,355.80	
2% Gross Receipts Sanitary Reduction Works.....	1,175.76	
Transfer from Unapportioned Fee Fund.....	181,554.53	
Transfer from School Building Fund (Loan).....	280,000.00	
Transfer from Assessor's Acct. (Loan).....	360,000.00	
Transfer from Hospital Building Fund (Loan).....	300,000.00	
Transfer from Assessor Commission.....	17,415.90	
Transfer from Tax Collector Commission.....	12.00	
Transfer from Advertising Fund.....	9,800.34	
Transfer from Coupon Acct. Park Imp. Bonds.....	2,101.60	
Transfer from Sinking Fund Park Imp. Bonds.....	3,918.88	
Transfer from Surplus Fund.....	93,545.12	
		\$6,095,023.31

CITY AND COUNTY FUNDS.

	Amount	Total
Common School Fund:—		
Taxes.....	321,213.30	
Rent of School Property.....	10,186.00	
Rent of Lincoln School Lot.....	48,000.00	
Sale of Old Material.....	95.75	
State School Money.....	919,934.28	
Redemption of Property Sold to State.....	1,175.75	
Tax Collector Sales.....	872.17	
Railroad Taxes.....	103.10	
From Anonymous Person in Troy, N. Y.....	195.00	
Transfer from School Building Fund (Loan).....	30,000.00	
Transfer from Assessor Acct. (Loan).....	200,000.00	
		1,531,775.35
Teachers' Institute Fund:—		
Examination and Certificate Fees.....	450.00	450.00
Advertising Fund:—		
Board of Supervisors Pass.....	6,791.95	
Board of Public Works.....	2,620.70	
Board of Fire Commissioners.....	152.30	9,564.95
Advertising Fund Redemption Account:—		
Auditor.....	1,090.50	
Tax Collector.....	6,205.00	7,295.50
Unapportioned Fee Fund —		
Mayor.....	1,848.00	
Auditor.....	46.00	
Sheriff.....	21,064.27	
County Clerk.....	65,907.95	
Recorder.....	58,443.85	
Recorder, Marriage Licenses.....	4,887.00	
Justice Clerk.....	26,073.00	
Board of Public Works.....	22,912.50	
Board of Health.....	659.75	
Police Department.....	3,197.50	
Pound Keeper.....	3,843.45	
Department of Electricity.....	7,560.13	216,443.40
Park Fund:—		
Taxes.....	349,938.62	
Receipts from Children's Quarters.....	24,922.85	
Rent of Boat House.....	300.00	
Board of Mounted Police Horses.....	1,440.00	
Program Privileges.....	1,340.00	
Japanese Tea Garden.....	1,363.30	
Automobile Permits.....	870.00	
Sale of Old Material.....	6.00	
Donations from S. F. Fly Casting Club.....	300.00	
Removal of Manure.....	120.00	
Rental United Railway Track in Golden Gate Park.....	300.00	
Labor Demand Uncalled For.....	16.25	
Redemption of Property Sold to the State.....	1,285.99	
Tax Collector Sales.....	953.94	
Railroad Taxes.....	112.77	
Transfer from Assessors Acct. (Loan).....	82,000.00	
Water Supplied M. J. Sheehan.....	80.00	465,349.72
Library Fund:—		
d Taxes.....	75,326.99	
Fines.....	3,042.70	
Sale of Old Papers.....	107.50	
Books Lost and Paid for.....	133.25	
Redemption of Property Sold to the State.....	134.28	
Tax Collector Sales.....	17.64	
Railroad Taxes.....	12.08	
Transfer from Assessor's Acct. (Loan).....	10,000.00	88,774.44
Police Relief and Pension Fund:—		
Fines of Officers.....	1,878.33	
Contributions of Officers.....	16,728.00	
Transfer from Unapportioned Fee Fund.....	3,105.00	
Transfer from General Fund Account Licenses ..	36,614.65	
Transfer from General Fund Fines.....	8,845.13	

CITY AND COUNTY FUNDS

	Amount	Total
Reward of Officers.....	353.00	67,524.11
House Moving Fund—Board of Works:—		
Permits Issued.....	3,135.00	3,135.00
House Moving Fund—Dept. of Electricity:—		
Permits issued.....	1,330.00	1,330.00
Duplicate Tax Fund:—		
Taxes.....	11,478.71	11,478.71
Coupons Park Improvement Bonds:—		
Taxes.....	114.44	114.44
Sinking Fund Park Improvement Bonds:—		
Taxes.....	57.22	
Loans Returned.....	13,000.00	
Interest on Loans.....	258.00	13,315.22
Tearing Up Street Fund ¹ —		
Sewer Permits.....	79,317.89	79,317.89
Special Badge Fund:—		
Badges Sold.....	328.00	328.00
Robinson Bequest Interest Fund:—		
Interest Received.....	2,050.00	2,050.00
Assessor's Account:—		
Personal Property Taxes.....	643,664.67	
Transfer from Firemen's Relief Fund (Loan Ret'd).....	13,000.00	
Transfer from General Fund (Loan Ret'd).....	360,000.00	
Transfer from School Fund (Loan Ret'd).....	200,000.00	
Transfer from Park Fund (Loan Ret'd).....	82,000.00	
Transfer from Library Fund (Loan Ret'd).....	10,000.00	1,308,664.67
State of California:—		
Taxes.....	2,678,635.96	
Poll Taxes.....	102,051.90	
Redemption of Property Sold to State.....	9,969.69	
Collateral Inheritance Tax.....	389,098.01	
Maintenance of Pupils at Whittier School.....	3,752.81	
Maintenance of Pupils at Preston School.....	6,007.43	
Maintenance of Children Home Feeble Minded ..	22,607.50	
Tax Collector Sales.....	5,975.62	3,218,098.92
Henri Windel Bequest Interest Fund:—		
Interest Received.....	892.12	892.12
Surplus Fund:—		
Transfer from General Fund (Back Taxes).....	95,846.82	
License Collector (Back Licenses).....	486.00	
Transfer from Firemen's Relief Fund (Loan Ret'd).....	2,000.00	98,332.82
Firemen's Relief Fund:—		
Taxes.....	20,150.79	
Transfer from Assessor Account (Loan).....	13,000.00	
Transfer from General Fund.....	3,500.00	
Transfer from Surplus Fund (Loan).....	2,000.00	38,650.79
Special Permit Fund:—		
Permits.....	73,995.00	73,995.00
New City and County Hospital Fund:—		
Transfer from General Fund (Loan Ret'd).....	300,000.00	300,000.00
New School Building Fund:—		
Transfer from General Fund (Loan Ret'd).....	280,000.00	
Transfer from School Fund (Loan Ret'd).....	30,000.00	310,000.00
Hospital and School Building Fund 1902-1903:—		
Transfer from Hospital Building Fund.....	317,425.54	
Transfer from School Building Fund.....	317,425.54	634,851.08
Public Building Park Extension Bond Fund.....	228,000.00	328,000.00
Bonds Sold.....	292,000.00	292,000.00
Public Building Mission Park Bond Fund:—		
Bonds Sold.....	292,000.00	292,000.00
Public Building Playground Bond Fund:—		
Bonds Sold.....	740,000.00	740,000.00
Public Building Library Bond Fund.....	739,800.00	739,800.00
Bonds Sold.....	739,800.00	739,800.00
Public Building Hospital Bond Fund:—		
Bonds Sold.....	250,000.00	250,000.00

CITY AND COUNTY FUNDS.

	Amount	Total
Public Building Streets Bond Fund.		
Bonds Sold	243,000.00	243,000.00
Public Building School Bond Fund.		
Bonds Sold	1,077,600.00	
Premium on Bonds	80.00	1,077,680.00
Public Building Sewer Bond Fund.		
Bonds Sold	724,800.00	
Premium	50.00	724,850.00
Public Building Jail Bond Fund.		
Bonds Sold	278,400.00	278,400.00
Hospital Bond Redemption Account.		
Taxes	24,965.34	24,965.34
Sewer Bond Redemption Account.		
Taxes	180,748.93	180,748.93
School Bond Redemption Account.		
Taxes	89,875.15	89,875.15
Streets Bond Redemption Account.		
Taxes	40,443.81	40,443.81
Jail Bond Redemption Account.		
Taxes	17,475.73	17,475.73
Library Bond Redemption Account.		
Taxes	40,943.12	40,943.12
Playground Bond Redemption Account.		
Taxes	18,474.31	18,474.31
Park Extension Bond Redemption Account.		
Taxes	7,988.90	7,988.90
Mission Park Bond Redemption Account.		
Taxes	7,489.62	7,489.62
Telegraph Hill Bond Redemption Account.		
Taxes	14,979.22	14,979.22
Hospital Bond Interest Account.		
Taxes	8,488.22	
Interest	1,458.35	9,946.57
Sewer Bond Interest Account.		
Taxes	25,464.63	
Interest	7,909.10	33,373.73
School Bond Interest Account.		
Taxes	37,447.98	
Interest	11,423.99	48,871.97
Streets Bond Interest Account.		
Taxes	8,488.21	
Interest	1,484.45	9,972.66
Jail Bond Interest Account.		
Taxes	9,486.83	
Interest	1,652.75	11,139.58
Library Bond Interest Account.		
Taxes	25,963.96	
Interest	2,661.28	28,625.24
Playground Bond Interest Account.		
Taxes	25,464.65	
Interest	2,265.34	27,729.99
Park Extension Bond Interest Account.		
Taxes	11,484.04	
Interest	637.67	12,121.71
Mission Park Bond Interest Account.		
Taxes	9,986.03	
Interest	567.78	10,553.81
Telegraph Hill Bond Interest Account.		
Taxes	20,471.54	20,471.54
Total		21,845,339.65

CITY AND COUNTY FUNDS.

	Amount	Total
DISBURSEMENTS.		
General Fund 1904-1905.		
Demands Paid.....	4,592,633.62	
Superior Court Orders.....	20,147.93	
Transferred to Police Relief and Pension Fund		
Licenses.....	36,614.65	
Transferred to Police Relief and Pension Fund		
Fines.....	8,845.13	
Transferred to Surplus Fund (Back Taxes).....	38,168.75	
Transferred to Surplus Fund Redemptions.....	7,534.21	
Transferred to Surplus Fund Tax Sales.....	989.84	
Transferred to Firemen's Relief Fund.....	3,500.00	
Transferred to Assessor's Account(Loan Ret'd).....	360,000.00	
Transferred to Hospital Building Fund (Loan		
Returned).....	300,000.00	
Transferred to School Building Fund (Loan		
Returned).....	280,000.00	5,648,434.13
Common School Fund.		
Demands Paid.....	1,331,953.40	
Transferred to Assessor (Loan Returned).....	200,000.00	
Transferred to School Bldg. Fund (Loan Ret'd).....	30,000.00	1,561,953.40
Teacher's Institute Fund.		
Demands Paid.....	490.04	490.04
Advertising Fund.		
Demands Paid.....	1,308.44	
Transferred to General Fund.....	9,800.34	11,108.78
Advertising Fund Redemption Account.		
Demands Paid.....	7,235.50	7,235.50
Unapportioned Fee Fund.		
Demands Paid.....	13,910.00	
Transferred to General Fund.....	181,554.53	
Transferred to Police Relief and Pension Fund.....	3,105.00	
Transferred to Surplus Fund.....	16,896.44	215,465.97
Park Fund.		
Demands Paid.....	358,784.49	
Transferred to Assessor (Loan Returned).....	82,000.00	440,784.49
Library Fund.		
Demands Paid.....	67,031.09	
Transferred to Assessor (Loan Returned).....	10,000.00	77,031.09
Police Relief and Pension Fund.		
Demands Paid.....	63,099.84	
Transferred to Surplus Fund.....	3,250.00	66,349.84
House Moving Fund—Board of Works.		
Demands Paid.....	2,955.00	2,955.00
House Moving Fund—Dept. of Electricity.		
Demands Paid.....	906.98	906.98
Duplicate Tax Fund.		
Demands Paid.....	7,170.72	7,170.72
Overpayment Personal Property Tax Fund 1900-01.		
Demands Paid.....	.23	.23
Overpayment Personal Property Tax Fund 1901-02.		
Demands Paid.....	.43	.43
Coupon Park Improvement Bonds.		
Coupons Paid.....	30.00	
Transferred to General Fund.....	2,101.60	2,131.60
Sinking Fund Park Improvement Bonds.		
Bonds Returned.....	4,000.00	
Transferred to General Fund.....	3,918.88	7,918.88
Tearing Up Streets Fund.		
Demands Paid.....	78,626.81	78,626.81
Robinson Bequest Interest Fund.		
Demands Paid.....	1,950.00	1,950.00
Assessor Account.		
Apportioned to Sundry Funds.....	662,634.60	
Transferred to General Fund (Loan).....	360,000.00	
Transferred to School Fund (Loan).....	200,000.00	
Transferred to Park Fund (Loan).....	82,000.00	

CITY AND COUNTY FUNDS.

	Amount	Total
Transferred to Library Fund (Loan)	10,000.00	
Transferred to Firemen's Relief Fund (Loan) . . .	13,000.00	1,327,634.60
State of California:—		
Settlement with State Controller	3,214,283.90	3,214,283.90
Henri Windel Bequest Interest Fund:—		
Demands Paid.	450.00	450.00
Surplus Fund:—		
Demands Paid.	2,684.46	
Transferred to Firemen's Relief Fund (Loan) . . .	2,000.00	
Transferred to General Fund.	93,545.12	98,229.58
Firemen's Relief Fund:—		
Demands Paid.	22,954.23	
Transferred to Surplus Fund (Loan Ret'd).	2,000.00	
Transferred to Assessor's Account (Loan Ret'd).	13,000.00	37,954.23
Special Permit Fund:—		
Demands Paid.	71,475.00	71,475.00
New City and County Hospital Fund:—		
Transferred to General Fund (Loan)	300,000.00	
Transferred to Hospital and School Bldg. Fund..	317,425.54	617,425.54
New School Bldg. Fund:—		
Transferred to General Fund (Loan)	280,000.00	
Transferred to School Fund (Loan)	30,000.00	
Transferred to Hospital and School Bldg. Fund..	317,425.54	627,425.54
Hospital and School Bldg. Fund 1902-1903:—		
Demands Paid.	491,903.60	491,903.60
Special Badge Fund:—		
Demands Paid.	227.00	227.00
St. Mary's Park Fund:—		
Demands Paid.	5,500.00	5,500.00
Public Bldg. Park Extension Bond Fund:—		
Demands Paid.	97,795.43	97,795.43
Public Building School Bond Fund:—		
Demands Paid.	28,732.50	28,732.50
Public Building Mission Park Fund:—		
Demands Paid.	291,370.00	291,370.00
Public Building Sewer Bond Fund:—		
Demands Paid.	88.77	88.77
Public Building Streets Bond Fund:—		
Demands Paid.	28.50	28.50
Public Building Library Bond Fund:—		
Demands Paid.	110,000.00	110,000.00
Total		15,151,038.08
Balance in City and County Treasury June 30th, 1905		6,694,301.57
Total		21,845,339.65

RECAPITULATION

SHOWING THE BALANCES IN THE VARIOUS FUNDS OF THE CITY AND COUNTY OF SAN FRANCISCO ON THE 30TH DAY OF JUNE, 1905.

	Amount	Total
General Fund.....	847,541.43	
Common School Fund.....	5,123.86	
Teacher's Institute Fund.....	254.70	
Advertising Fund.....	8,256.51	
Advertising Fund—Redemption Account.....	135.00	
Unapportioned Fee Fund.....	19,312.92	
Park Fund.....	70,836.56	
Library Fund.....	28,850.45	
Police Relief and Pension Fund.....	18,450.21	
House Moving Fund—Board of Works.....	1,560.00	
House Moving Fund—Dept. of Electricity.....	1,705.67	
Duplicate Tax Fund.....	14,282.28	
19th Street Extension Fund.....	236.53	
Potrero Avenue Extension Fund.....	371.92	
Overpayment P. P. Tax 1899-1900.....	1,436.26	
Overpayment P. P. Tax 1900-1901.....	581.78	
Overpayment P. P. Tax 1901-1902.....	3,825.23	
Coupon Park Improvement Bonds.....	744.44	
Sinking Fund Park Improvement Bonds 1874-1875.....	7,315.22	
Sinking Fund Dupont Street Bonds.....	158.02	
Tearing up Streets Fund.....	18,525.05	
Robinson Bequest Fund.....	50.00	
obinson Bequest Interest Fund.....	850.00	
Assessor.....	636,056.32	
State of California.....	42,355.88	
St. Mary's Park Fund.....	1,751.68	
Henri Windel Bequest Fund.....	888.18	
Surplus Fund.....	103.24	
Firemen's Relief Fund.....	1,287.43	
Special Permit Fund.....	30,681.75	
Special Badge Fund.....	708.00	
Hospital and School Bldg. Fund 1902-1903.....	142,947.48	
Public Building Hospital Bond Fund.....	250,000.00	
Public Building Sewer Bond Fund.....	724,761.23	
Public Building School Bond Fund.....	1,048,947.50	
Public Building Streets Bond Fund.....	242,971.50	
Public Building Jail Bond Fund.....	278,400.00	
Public Building Library Bond Fund.....	629,800.00	
Public Buildings Playgrounds Bond Fund.....	740,000.00	
Public Building Mission Park Bond Fund.....	630.00	
Public Building Park Extension Bond Fund.....	230,204.57	
Hospital Bond Redemption Account.....	24,965.34	
Sewer Bond Redemption Account.....	180,748.93	
School Bond Redemption Account.....	89,875.15	
Street Bond Redemption Account.....	40,443.81	
Jail Bond Redemption Account.....	17,475.73	
Library Bond Redemption Account.....	40,943.12	
Playground Bond Redemption Account.....	18,474.21	
Park Extension Bond Redemption Account.....	7,988.90	
Mission Park Bond Redemption Account.....	7,489.62	
Telegraph Hill Bond Redemption Account.....	14,979.22	
Hospital Bond Interest Account.....	9,946.57	
Sewer Bond Interest Account.....	33,373.73	
Schools Bond Interest Account.....	48,871.97	
Street Bond Interest Account.....	9,972.66	
Jail Bond Interest Account.....	11,139.58	
Library Bond Interest Account.....	28,625.24	
Playgrounds Bond Interest Account.....	27,729.99	
Park Extension Bond Interest Account.....	12,121.71	
Mission Park Bond Interest Account.....	10,553.81	
Telegraph Hill Bond Interest Account.....	20,471.54	
Balance in City and County Treasury June 30th 1905.....		6,709,090.73
A. C. Widber Deficiency Account.....		14,789.16
Total.....		6,694,301.57

REPORT OF SPECIAL AND UNAPPORTIONED FUNDS FOR THE FISCAL
YEAR 1904-1905.

	Amount	Total
RECEIPTS		
Balance on hand June 30th, 1904.....		\$682,377.33
Police Court Bail Money.....	\$ 387,701.00	
Tax Collector—Taxes.....	7,612,756.95	
Tax Collector—Special Account.....	21,136.28	
Tax Collector—Commission.....	2.00	
Tax Collector Licenses.....	509,820.75	
Redemption of property Sold to the State.....	30,194.16	
Assessor—Poll Taxes.....	102,045.90	
Assessor—Commission.....	18,008.10	
Assessor—Personal Property Taxes.....	643,664.67	
Collateral Inheritance Tax.....	208,126.60	
School Teacher's Annuity and Retirement Fund.....	24,496.47	
Special Redemption Taxes.....	242.82	
County Clerk Deposits.....	44,698.18	
Absent Heirs.....	5,576.41	
Public Administrator.....	7,613.48	
State School Money.....	1,284,799.98	
		10,900,883.75
Total.....		11,583,261.08
DISBURSEMENTS		
Police Court Bail Money.....	381,990.00	
Tax Collector —Taxes.....	7,628,958.08	
Tax Collector—Special.....	21,238.69	
Tax Collector—Commission.....	12.00	
Tax Collector—Licenses.....	509,820.75	
Redemption of Property Sold to the State.....	30,545.42	
Assessor's Poll Tax.....	102,045.90	
Assessor's Commission.....	17,415.90	
Assessor's Personal Property Taxes.....	643,664.67	
Collateral Inheritance Tax.....	398,085.61	
School Teacher's Annuity and Retirement Fund.....	23,798.14	
Special Redemption Taxes.....	193.77	
County Clerk Deposits.....	118,465.07	
Absent Heirs.....	3,190.20	
Public Administrator.....	20,516.79	
State School Money.....	1,225,274.62	
		11,125,215.61
Balance in City and County Treasury June 30, 1905.		458,045.47
		11,583,261.08

RECAPITULATION OF THE BALANCES IN THE SPECIAL AND UNAPPORTIONED FUNDS FOR THE FISCAL YEAR 1904-1905.

	Amount	Total
Police Court Bail Money.....	23,698.50	
Tax Collector's Taxes.....	30,066.66	
Tax Collector's Commission.....	2.00	
Redemption of Property Sold to the State.....	3,277.38	
Assessor's Commission.....	16,268.10	
Collateral Inheritance Tax.....	7,415.04	
School Teacher's Annuity and Retirement Fund.....	5,803.57	
Special Redemption Taxes.....	1,779.71	
County Clerk.....	92,534.52	
Absent Heirs.....	8,303.46	
Public Administrator.....	19,064.42	
State School Money.....	249,832.11	
		458,045.47

REPORT OF TEACHER'S ANNUITY AND RETIREMENT FUND.

	Amount	Total
Total Amount to the Credit of Fund.....		45,507.81
On deposit in Security Savings Bank.....	10,605.26	
On Deposit in German Savings Bank.....	6,698.61	
On Deposit in Hibernia Savings Bank.....	5,723.92	
On Deposit in Mutual Savings Bank.....	2,864.09	
On Deposit in City and County Savings Bank.....	3,011.89	
On Deposit in Mechanic's Savings Bank.....	5,800.47	
On Deposit in Central Trust Co.....	5,000.00	
Balance in City and County Treasury.....		39,704.24
		5,803.57
		45,507.81

JOHN E. McDOUGALD,
City and County Treasurer

Assessor's Report

To the Mayor and Board of Supervisors
Of the City and County of San Francisco.

San Francisco, July 3, 1905.

Gentlemen:—

A lack of comprehension which is astonishing is shown by most citizens and taxpayers regarding the most simple facts connected with the Assessment Roll. In turning over this Assessment Roll I desire to note in this report which accompanies the same, a few facts bearing on the relative amount of the Assessment Roll with which all taxpayers should be familiar.

I would first report that the assessment of this year shows an increase of \$21,540,923 over that of last year and an increase of \$172,000,000 over the assessment of the City when I assumed the office of Assessor seven years ago. During the seven years preceding my incumbency of the office, the increase of the roll was but six million dollars, as against one hundred and seventy-two million since that time. A very large part of this great increase is due entirely to the assessment of property which had been either over-looked or under-valued.

The Roll now has reached \$524,433,382. This increased Roll allows a low tax rate to be fixed. With a tax-rate this year practically the same as last year, the City has, owing to this increased Roll, over \$150,000 more than last year available for public improvements.

With a tax-rate this year much less than that preceding my term, the City has had, through all such additions to the Roll, over one and one-half millions added to its yearly income.

The effect has been to enable your Honorable Board to adopt a budget which provides liberally for all departments of our City government, and further, has enabled you to expend large amounts annually for public improvements; and in addition provide interest and sinking funds for public improvement bonds—all this has been done without any increase in the tax-rate. In fact, the City rate is now \$1.16 per hundred, as against \$1.31 in 1898, in which latter year few improvements were made.

Were our expenses now no greater than they were in 1899-1900, and were public improvements limited to what was then expended, and public improvement bonds not to be now provided for, the tax-rate on the present large assessment roll would be but 91 cents per hundred, instead of \$1.16 as it is; or had the roll not been increased, as it has been, the tax-rate would now have to be \$1.68 per hundred, instead of \$1.16, in order to provide for the permanent improvements we are now securing.

These illustrations serve to show what benefits we derive from a large roll and from the uniform assessment of all property. That taxes are not less to the majority of all tax-payers is due to the fact that our expenditures for permanent improvement have been greatly increased.

The gains and losses in the Roll are shown below in detail:

Roll of 1904.....		502,892,459.00
Loss on State Banks.....	\$1,772,796.00	
Loss on National Banks.....	700,000.00	
Exempted by Law.....	2,183,546.00	
Total Loss.....		\$4,656,342.00
Roll Remaining.....		\$498,236,117.00
Gain on Buildings.....		11,288,310.00
Gain on Real Estate.....		10,638,810.00
Gain on Personal Property.....		4,270,145.00
Total Roll.....		\$524,433,382.00

In addition to assessing property, this office has collected in the past 90 days \$636,895.00 as taxes on personal property and has collected in Poll taxes for the benefit of the school fund \$109,198.00.

All of which is respectfully submitted.

WASHINGTON DODGE, Assessor.

ASSESSOR'S STATISTICAL REPORT OF THE MECHANICAL AND MANUFACTURING INDUSTRIES OF THE CITY AND COUNTY OF SAN FRANCISCO FOR THE FISCAL YEAR ENDING JUNE 30, 1905.

AGRICULTURAL IMPLEMENT MANUFACTORIES—1.		
Men and Boys.....	70	Value of manufactures..... \$225,000
AIR COMPRESSOR MANUFACTORIES—3.		
Men Employed.....	130	Value of manufactures..... 350,000
ARTIFICIAL STONE MANUFACTORIES—25.		
Men employed.....	430	Value of manufactures..... 478,000
AXLE GREASE MANUFACTORIES—3.		
Men employed.....	30	Value of manufactures..... 72,000
BAG MANUFACTORIES (Jute and Hemp)—3.		
Men and boys employed.....	150	Value of manufactures..... 1,500,000
Girls employed.....	80	
BAG MANUFACTORIES (Paper)—2.		
Men and boys employed.....	100	Value of manufactures..... 200,000
Girls employed.....	50	
BARREL MANUFACTORIES—25.		
Men and boys employed.....	400	Value of manufactures..... 800,000
BARBED WIRE AND WIRE NAIL MANUFACTORIES—2.		
Men and boys employed.....	100	Value of manufactures..... 200,000
BEDDING AND UPHOLSTERING FACTORIES—16.		
Men employed.....	310	Value of manufactures..... 500,000
BED SPRING MANUFACTORIES—2		
Men employed.....	27	Value of manufactures..... 80,000
BELLOWS MANUFACTORIES—1.		
Men employed.....	10	Value of manufactures..... 20,000
BELTING MANUFACTORIES—5.		
Men and boys employed.....	60	Value of manufactures..... 300,000
BILLIARD TABLE MANUFACTORIES—4.		
Men and boys employed.....	30	Value of manufactures..... 75,000
BOAT BUILDERS—15.		
Men employed.....	120	Value of manufactures..... 500,000
BOOK BINDERIES—35		
Men, women and boys employed.....	600	Value of manufactures..... 1,200,000
BRASS FOUNDRIES—11.		
Men and boys employed.....	200	Value of manufactures..... 1,000,000

BOX MANUFACTORIES (Cigar)—5.

Men, boys and girls employed (white) 60	Value of manufactures.....	150,000
Chinese employed..... 80	Value of manufactures.....	60,000

BOX MANUFACTORIES (Paper)—10.

Men, boys and girls employed . . . 220	Value of manufactures.....	200,000
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BOX MANUFACTORIES (Wooden)—7.

Men and boys employed..... 350	Value of manufactures.....	800,000
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BREWERIES—31.

Men employed..... 1150	Beer manufactures, barrels .	700,000
Hops consumed yearly, pound 650,000		
Barley consumed yearly, tons 30,000	Aggregate value of product..	4,000,000

BROOM MANUFACTORIES—10.

Men and boys employed..... 100	Value of manufactures.....	180,000
Chinese employed..... 90		

BRUSH MANUFACTORIES—11.

Men and boys employed..... 125	Value of manufactures.....	150,000
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CANDLE MANUFACTORIES—3.

Men, boys and girls employed..... 80	Value of manufactures.....	85,000
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CARRIAGE AND WAGON MANUFACTORIES—59.

Men and boys employed..... 400	Value of manufactures.....	450,000
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COFFEE, SPICE AND CHOCOLATE MANUFACTORIES—24.

Men, boys and girls employed..... 300	Value of manufactures.....	2,200,000
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CONFECTIONERY MANUFACTORIES—15.

Men, boys and girls employed..... 400	Value of manufactures.....	700,000
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CIDER MANUFACTORIES—6.

Men employed..... 40	Value of manufactures.....	75,000
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CIGAR MANUFACTORIES—321.

Men, women, boys (white) empl'd. 500	Cigars manufactured.....	58,650,000
Chinese employed..... 800	Cigarettes manufactured....	5,200,000
	Value of manufactures....	\$2,000,000

CRACKER MANUFACTORIES—4.

Men, boys and girls employed..... 400	Value of manufactures.....	1,750,000
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CAR MANUFACTORIES—3.

Men employed..... 80	Value of manufactures.....	150,000
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CHEMICAL WORKS—7

Men employed 100	Value of manufactures	1,500,000
Chinese employed. 40		

CLOTHING MANUFACTORIES—30.

Men, women, boys (white) empl'd 800	Value of manufactures.	1,500,000
Chinese employed. 250		

COPPERSMITHS—8.

Men and boys employed.....	50	Value of manufactures.	100,000
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CORDAGE AND ROPE FACTORIES—2.

Men, boys and girls employed	250	Value of manufactures.	700,000
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CLOAK MANUFACTORIES—25.

Women employed	400	Value of manufactures.	500,000
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COFFIN MANUFACTORIES—3.

Men and Boys employed.....	50	Value of manufactures.	150,000
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CUTLERY MANUFACTORIES—4.

Men employed	40	Value of manufactures.	100,000
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DRY DOCKS (Floating)—3.

Men employed	10	Capacity of Docks	1st 3000 tons
			2nd 2000 tons
			3rd 1000 tons

DRY DOCKS (Stone)—1.

Length of excavation in rock, feet	400	Capacity of drawing, feet....	22
Width of top, feet.....	120	Capacity of pumps for cleaning	
Capacity of length.....	470	per hour, cubic feet.....	326,316
		Total cost of work.....	\$675,000

ELECTRIC MACHINE WORKS—9.

Men employed.....	400	Value of manufactures.	700,000
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ELECTRIC LIGHTING COMPANIES—5.

Men and boys employed.....	600	Horse-Power of Motors.....	23,000
Number of Incandescent Lights	480,000	Oil used.....	40,000 bbls per Mo.
Number of Arc Lights.	7,000	Value of manufactures.	\$3,000,000

ELECTRIC SUPPLY MANUFACTORIES—3.

Men employed.....	180	Value of manufactures.	340,000
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ELEVATOR MANUFACTORIES—3.

Men and boys employed.....	80	Value of manufactures.	150,000
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FERTILIZER MANUFACTORIES—3.

Men and boys employed.....	100	Value of manufactures.	330,000
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FIRE-WORKS MANUFACTORIES—1.

Men and boys employed.....	16	Value of manufactures.	50,000
Girls employed.....	8		

FLOUR, FEED AND MEAL MILLS—12.

Men and boys employed.....	360	Value of Manufactures.	3,000,000
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FOUNDRIES AND MACHINE WORKS—121.

Men and boys employed.....	8000	Value of manufactures.	8,000,000
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FRINGE MANUFACTORIES—5.

Men and boys employed.....	130	Value of manufactures.	27,000
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FRUIT CANNING AND PRESERVING FACTORIES—7.

Men, women, boys employed.....	2500	Value of Fruits, Vegetables and Meats.....	3,700,000
Chinese employed.	350		

FUR MANUFACTORIES—6.

Men and women employed.....	100	Value of manufactures.	310,000
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GAS WORKS—4.

Men employed.	600	Value of manufactures.	3,500,000
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GLASS WORKS—2.

Men and boys employed.....	175	Value of manufactures.	1,300,000
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GLASS STAINING, CUTTING AND BENDING WORKS—5.

Men and boys employed.....	30	Value of product.	200,000
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GLOVE MANUFACTORIES—21.

Men, boys, women employed.....	468	Value of manufactures.	600,000
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GLUE MANUFACTORIES—2.

Men and boys employed.....	25	Value of manufactures.	75,000
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HARNESS MANUFACTORIES—37.

Men and boys employed.....	300	Value of manufactures.	700,000
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HAT AND CAP MANUFACTORIES—8.

Men and women employed.....	190	Value of product.	500,000
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INK AND MUCILAGE MANUFACTORIES—1.

Men employed.	15	Value of product.	60,000
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ICE MANUFACTORIES—4.

Men employed.	100	Value of product.	300,000
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JAPANING AND GALVANIZING FACTORIES—3.

Men and boys employed.....	40	Value of manufactures.	110,000
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JEWELRY AND SILVERWARE MANUFACTORIES—35.

Men employed.	200	Value of manufactures.	1,300,000
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LAST MANUFACTORIES—3.

Men employed.	14	Value of manufactures.	15,000
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LEAD PIPE AND SHOT MANUFACTORIES—1.

Men employed.	55	Value of manufactures.	600,000
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LINSEED OIL WORKS—1.

Men employed.	60	Value of manufactures.	170,000
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MACARONI AND VERMICELLI FACTORIES—16.

Men and boys employed.....	210	Value of manufactures.	140,000
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MALT HOUSES—6.

Men employed.	120	Value of manufactures.	750,000
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MARBLE WORKS—26.

Men and boys employed.....	300	Value of product.	500,000
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MATCH FACTORIES—3.

Men and boys employed.....	60	Value of manufactures.	65,000
Chinese employed.	20		

MILLINERY MANUFACTORIES—110.

Women employed.	650	Value of manufactures.	810,000
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MUSICAL INSTRUMENT MANUFACTORIES—14.

Men and boys employed.....	90	Value of manufactures.	2000,00
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NEATSFOOT OIL MANUFACTORIES—1.

Men employed.	5	Value of manufactures.	5,000
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PAINT MANUFACTORIES—3.

Men and boys employed.....	90	Value of product.	600,000
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PICTURE FRAME MANUFACTORIES—11.

Men and boys employed.....	270	Value of product.	350,000
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PUMP AND PUMPING MACHINERY MANUFACTORIES—14.

Men and boys employed.....	400	Value of product.	800,000
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PROVISION PACKING HOUSES—11.

Men employed.	1100	Value of product.	6,000,000
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RUBBER MANUFACTORIES—3.

Men employed.	100	Value of manufactures.	300,000
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RUBBER STAMP MANUFACTORIES—14.

Men and boys employed.....	70	Value of manufactures.	60,000
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SAFE AND VAULT WORKS—7.

Men employed.	20	Value of manufactures.	100,000
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SAW AND PLANING MILLS—17.

Men and boys employed.....	800	Value of product.	1,000,000
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SHIRT MANUFACTORIES—32.

Men, women, boys employed.....	400	Value of manufactures.	750,000
Chinese employed.	300		

SAW MANUFACTORIES—10.

Men employed.	50	Value of manufactures.	200,000
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SASH, DOOR AND BLIND FACTORIES—11.

Men and boys employed.....	250	Value of manufactures.	303,000
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SHIP YARDS—6.

Men employed.	1000	Value of product.	3,000,000
(Not including machinists.)			

SALT WORKS—4.

Men and boys employed.....	50	Value of product.	100,000
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SHOE FACTORIES—16.

Men and boys employed.....	500	Value of manufactures.	2,300,000
Chinese employed.	250		
Girls employed	200		

SOAP FACTORIES—15.

Men employed.	150	Value of manufactures.	550,000
Soap made annually, pounds, 11,000,000			

SODA WATER WORKS—11.

Men employed.	70	Value of manufactures.	150,000
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SOLDER AND BABBITT WORKS—3.

Men employed.	35	Value of manufactures.	80,000
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SHOW CASE FACTORIES—4.

Men employed.....	15	Value of product.	20,000
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SUGAR REFINERIES—1.

Men and boys employed.....	700	Sugar (yellow) made, lbs....	12,886,050
Sugar (raw) used, lbs.	368,379,888	Syrup made, gallons.	621,740
Sugar (white) made, lbs ..	338,434,435	Value of manufactures.	\$4,211,516

SYRUP AND CORDIAL FACTORIES—5.

Men, women, boys employed.....	100	Value of manufactures.	500,000
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TANNERIES, HIDES—21.

Men employed.	240	Value of manufactures.	1,310,000
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TANNERS OF SHEEP SKINS—3.

Men employed.	90	Value of product.	150,000
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TINWARE AND TIN CAN FACTORIES—2.

Men, women, boys employed.....	700	Value of product.	2,000,000
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TRUNK MANUFACTORIES—8.

Men and boys employed.....	100	Value of product.	200,000
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TYPE FOUNDRIES—5.

Men employed.....	150	Value of manufactures.	100,000
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TANK MANUFACTORIES—23.

Men employed.	30	Value of product.	60,000
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VARNISH MANUFACTORIES—5.

Men employed.	16	Value of manufactures.	60,000
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VENEERING MANUFACTORIES—2.

Men employed.	35	Value of product.	55,000
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VINEGAR AND PICKLE FACTORIES—12.

Men and boys employed.....	130	Value of manufactures.	160,000
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WHITE LEAD MANUFACTORIES—3.

Men employed.	75	Value of manufactures.	300,000
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WIND MILL MANUFACTORIES—7.

Men employed.	60	Value of manufactures.	100,000
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WIRE AND WIRE ROPE MANUFACTORIES—2.

Men employed.	300	Value of manufactures.	1,500,000
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WILLOW AND WOODEN-WARE MANUFACTORIES—4.

Men employed.	65	Value of manufactures.	90,000
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WOOLEN MILLS—1.

Men, women, boys employed	125	Value of product.	350,000
Chinese employed.	20		

WHIP MANUFACTORIES—3.

Men, women, boys employed	25	Value of manufactures.	75,000
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WOOD TURNING AND CARVING MANUFACTORIES—12.

Men and women employed.	200	Value of Product.	125,000
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WATER WHEEL MANUFACTORIES—3.

Men employed.	70	Value of manufactures.	300,000
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WOMEN'S AND CHILDREN'S UNDERWEAR MANUFACTORIES—22.

Women employed.	200	Value of product.	750,000
Chinese employed.	370		

WOOL SCOURING AND GRADING HOUSES—9.

Men and women employed.	300	Wool scoured, pounds.	125,000,000
Wool produced, pounds.	36,500,000	Value of product.	\$2,000,000

Tax Collector's Report

LICENSE DEPARTMENT OF TAX COLLECTOR'S OFFICE

ANNUAL REPORT FISCAL YEAR 1904-1905.

176	Auctioneers.....	Quarterly.....	\$	1,096.00
169	Bankers	"		21,669.00
3	Baseball.....	"		30.00
220	Baths	"		898.00
134	Billiard Tables.....	"		1,664.00
41	Bowling Alleys	"		520.00
4	Boxing (Amateur).....	Yearly		1,000.00
3	Boxing (Professional).....	"		3,600.00
562	Brokers.....	Quarterly		3,927.00
30	Carpet Beaters.....	"		300.00
7	Circus.....	Daily		700.00
151	Concealed Weapons.....	Yearly		453.00
4748	Dog Tags.....	"		9,496.00
944	Dog Tags (Duplicates).....	"		472.00
978	Gratuitous.....	Quarterly.....		
3	Guide Badges.....	"		7.50
181	Intelligence.....	"		2,896.00
788	Junk and Second Hand Dealers.....	"		2,100.00
1299	Laundry.....	"		8,218.00
12748	Liquor (Retail \$21).....	"		267,708.00
1867	Liquor (Restaurant \$3 and \$5).....	"		5,939.00
307	Livery.....	"		1,228.00
9592	Municipal (Misc.).....	"		63,747.00
5387	Nickel-in-the slot tags \$10.....	"		53,870.00
330	Nickel-in-the-slot \$2 tags.....	" and yearly.....		660.00
215	Pawnbrokers.....	"		6,665.00
2415	Peddlers.....	"		14,490.00
40	Ring Throwing.....	"		200.00
69	Runners and Solicitors.....	"		690.00
43	Theatres (Daily, month'y and yearly).....	"		4,418.00
117	Warehouses.....	Quarterly.....		1,170.00
5973	Vehicles.....	Yearly		20,342.50
15	Street R. R. Co.....	Quarterly.....		8,602.50
179	Scavengers.....	Yearly		443.50
581	Drivers and Motormen's Cards.....	Yearly		388.25
968	Vehicles (Numbers).....	"		968.00
101	Plates (Cabs, Autos, Etc.).....	Quarterly.....		50.50
51388 No. Issued.....				Total..... \$510,626.75

TAX COLLECTOR

ANNUAL SETTLEMENT FOR THE FISCAL YEAR 1904.

	CITY, COUNTY and STATE	
	Cr.	Dr.
To total amount charged Real Estate Taxes, 1st installment.	\$3,136,032.43	\$3,146,992.29
By taxes collected and paid to the Treasurer.....	1,572.89	
By property sold to the State for taxes of previous years.....	2,040.09	
By property assessed to the Regents of the University of California.....	129.43	
By property assessed to the Deaf, Dumb and Blind Asylum.....	1,564.84	
By property assessed to the California School of Mechanical Arts.....	134.23	
By property assessed to the City and County of San Francisco "Windell Fund".....	82.75	
By property assessed to the City and County of San Francisco "Robinson Bequest Fund".....	248.25	
By property assessed to the City and County of San Francisco.....	1,537.42	
By property withdrawn from sale under Section 3806 Political Code.....		\$3,146,992.29
To total amount charged Real Estate Taxes, 2d installment.....		3,146,992.29
By taxes collected and paid to the Treasurer.....	3,083,828.91	
By property sold to the State for taxes of previous years.....	1,690.33	
By property sold to the State for taxes of 1904.....	6,137.69	
By property assessed to the Regents of the University of California.....	2,040.09	
By property assessed to the Deaf, Dumb and Blind Asylum.....	129.43	
By property assessed to the California School of Mechanical Arts.....	1,564.84	
By property assessed to the City and County of San Francisco "Windell Fund".....	134.23	
By property assessed to the City and County of San Francisco.....	82.75	
By property assessed to the City and County of San Francisco "Robinson Bequest Fund".....	248.25	
By property withdrawn from sale under Section 3806 Political Code.....	1,537.42	
By property charged personal property taxes secured by real estate.....	49,598.35	
To total amount charged personal property taxes secured by real estate.....		3,146,992.29
By taxes collected and paid to the Treasurer.....	1,313,395.67	
By property sold to the State for taxes of previous years.....	35.04	
By property sold to the State for taxes of 1904.....	378.44	
By property withdrawn from sale under Section 3806, Political Code.....	169.43	
By property enjoined from sale order U. S. Circuit Court (Wells, Fargo Co.).....	3,310.00	
To total amount charged personal property taxes unsecured by Real Estate.....		1,317,288.58
By taxes collected and paid to the Treasurer.....	29,214.98	
By taxes delinquent.....	20,127.22	
		49,342.20
		49,342.20

PENALTIES COLLECTED ON TAXES, FISCAL YEAR 19

To total amount charged on Real Estate Taxes, first installment		\$7,141.20
To total amount charged on Real Estate Taxes, second installment		5,639.64
To total amount charged on Personal Property Taxes secured by real estate.....		1,896.22
To total amount charged on unsecured Personal Property Taxes.....		4,294.37
By cash deposited with City and County Treasurer, first installment of real estate.....	4,920.90	
By cash deposited with City and County Treasurer, second installment of real estate	2,463.00	
By cash deposited with City and County Treasurer, secured Personal Property.....	1,115.95	
By cash deposited with City and County Treasurer, Unsecured Personal Property.....	268.93	
By 20% on amount delinquent (\$10,959.86), first installment real estate.....	2,191.97	
By per cent not collected on partial payments on which per cent had been charged, first installment real estate.....	28.33	
By 5 per cent on amount delinquent (\$63,163.18), second installment real estate.....	3,158.17	
By per cent not collected on partial payments on which per cent had been charged, second installment real estate.....	18.47	
By 20 per cent on amount delinquent (\$3,892.91), secured Personal Property.....	778.58	
By per cent not collected on partial payments on which per cent had been charged secured Personal Property.....	1.69	
By 20 per cent on amount delinquent (\$20,127.22) unsecured Personal Property.....	4,025.44	
	\$18,971.43	\$18,971.43
Additional amount paid Treasurer.....		62,924.98
To total amounts collected and paid Treasurer, as follows:		
From taxes of previous years.....	22,446.48	
From proceeds of property sold for the State of California.....	21,136.26	
From costs from taxes of previous years.....	5,378.91	
From costs from taxes of 1904.....	2,469.50	
From sale of poll taxes.....	8.00	
From duplicate and overpayment of taxes.....	11,485.83	\$62,924.98

RECAPITULATION.

Total amount collected and paid to the Treasurer as follows.....		\$7,634,165.75
From City, County and State Real Estate Taxes, first installment.....	3,136,032.43	
From City, County and State Real Estate Taxes, second installment.....	3,083,828.91	
From City, County and State Personal Property Taxes secured by Real Estate.....	1,313,395.67	
From City, County and State unsecured Personal Property Taxes.....	29,214.98	
From Proceeds of property sold for the State of California.....	21,136.26	
From penalties on taxes of 1904.....	8,768.78	
From taxes of previous years.....	22,446.48	
From "Costs" from taxes of previous years.....	5,378.91	
From "Costs" from taxes of 1904.....	2,469.50	
From sale of poll taxes.....	8.00	
From duplicate and overpayment of taxes.....	11,485.83	
		\$7,634,165.75

Recorder's Report

Hall of Records, San Francisco, July 25, 1905.

Hon. E. E. Schmitz, Mayor City and County of San Francisco:

Dear Sir—Pursuant to Charter provisions, I present herewith my report for the fiscal year beginning July 1, 1904, and ending June 30, 1905.

The detailed tabulations appended show that the cash receipts for the year amounted to a total of \$63,330.95; the expenses for the same period were \$41,400.20, leaving a net profit of \$21,930.75 to the credit of the department.

For the preceding fiscal year (1903-4) the receipts were \$57,537.45, the expenditures \$43,900, the surplus \$13,637.45.

During the year just closed the total number of documents filed was 41,360, against 37,337 for the preceding year—a gain of 4,023. First in importance and number were 11,954 deeds; next 5,028 mortgages of real property, 4,845 marriage certificates, 3,324 releases of real property mortgages, 2,013 chattel mortgages, 1,771 building contracts, 1,668 notices of completion of building, 1,343 deeds of trust, 1,187 bills of sale, 1,040 reconveyances, and other instruments in lesser number.

It will thus be seen that the business of the department during the fiscal year just closed has fully maintained the ratio of steady increase of the past six years. And since this business is derived mainly through building operations, realty transfers and kindred transactions, it is apparent that the above figures indicate to a certainty substantial growth and healthful activity for San Francisco.

For the future the prospects for continued activity in these important lines appear as satisfactory as the developments of the immediate past. All of the companies and firms engaged in the searching of titles report an unusual amount of business on hand and in prospect, while the realty dealers without exception hold most optimistic views concerning the general expansion and growth which the future has in store for San Francisco and California.

While the business of the Recorder's office shows such a substantial increase in the number of documents filed and in cash receipts, you will observe that the expenses have not been correspondingly increased. This, however, is not entirely a matter of congratulation, for it is a fact that the force of men employed in this department has not been sufficient to handle the increased business with the satisfactory degree of promptness and efficiency which prevailed during the several years preceding. A slight increase in this direction, while reducing the profit earning capacity of the office to only an insignificant extent, would have resulted in a commendable betterment of the service.

With the beginning of the new fiscal year the demand for additional help becomes imperative if the State and County laws are to be obeyed and the public interests properly safeguarded. Not only is the business certain to steadily increase, but new laws passed at the late session of the legislature add considerably to the work of the department. In the matter of receiving certificates of marriage called for by the new law, and compiling and recording an abstract of each certificate, enough new work is added to occupy the entire time of an additional clerk.

There is also a steady increase in the number of documents filed "officially"—that is, deeds, lis pendens, etc., filed by the city in its present movement of acquiring the lands needed for park extension, library and school sites, new streets, etc. The city pays no fees for the filing and copying of these documents, though the work is a considerable charge on the modest sum appropriated for the maintenance of this office.

With all of these facts in view, I hope to have the assistance of your Honor, to the full extent of your official prerogatives, in placing the department on the best possible basis.

In the matter of the office's structural equipment, I am pleased to report some slight advantages gained during the past year, the most important being the new desks for the main floor. But much more in this line is urgently needed. An electric elevator, new book-typewriting machines, building contract cabinets, additional desks and book-racks, and various other improvements, should be promptly supplied to meet the growing business and the modern ideas of conducting an important municipal department. All of these needs have been specified to the Board of Supervisors and the Board of Public Works in my regular official communications. While I am grateful for such improvements as have been granted the department during my incumbency, I sincerely hope that a greater measure of relief in this direction will be a realization of the near future.

I am much pleased to report that the recording in this office of affidavits of birth of Chinese persons, to which I called your Honor's attention in my last annual report, has been discontinued on the authority of an opinion supplied this department by the Honorable City Attorney. Of late years there has been a great increase in the number of these birth affidavits many of them relating to births purported to have occurred many years prior to the making and filing of the affidavits. The Chinese procured certified copies of these affidavits of birth, and used them, according to the Federal authorities, as a means of securing residential privileges to which they were in many cases not entitled. The Chief Inspector of the Chinese Bureau in this city fully investigated the matter of the belated Chinese birth affidavits and, finding many of them to be fraudulent, urgently appealed to this department to have the long-continued practice of accepting them for record discontinued. The outcome was especially gratifying to the Federal authorities as well as to myself.

I am also pleased to report that at its last session, the Legislature of the State finally enacted a law authorizing the return to owners of all old building contracts after a stated period, thus relieving the congestion occasioned by these fast accumulating bulky documents.

I also call your Honor's attention to the fact that fully 5,000 documents annually are never called for. In my annual estimates for appropriations for this department, I have always included the amount of \$750.00 for postage, which was invariably denied me; yet which would have enabled me to return by mail all papers filed in this office, thus saving time and money to tax-payers. In the above number of papers on hand are included 758 marriage certificates.

In conclusion I respectfully suggest that this department be allowed at least three more deputies; the present number of two being altogether inadequate to meet the growing demands upon it.

Those having business with this department pay a fee in addition to their taxes, and they are entitled to a degree of good, prompt service which, with my limited means I am unable to give them.

Very respectfully

EDMOND GODCHAUX, Recorder.

LIST OF INSTRUMENTS FILED AND RECORDED DURING FISCAL YEAR 1904-1905.

INSTRUMENTS	RECORDED DURING FISCAL YEAR 1904-1905.												
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
Acceptances and Abandonments of Buildings.....	88	146	113	170	138	171	172	131	141	126	137	135	1668
Agreements and Covenants.....	31	34	23	16	33	19	6	16	29	29	33	49	318
Assignments of Mortgages.....	11	19	21	11	23	18	18	14	17	20	17	14	204
Attachments, Releases and Executions.....	30	27	24	28	23	24	45	37	39	37	21	28	363
Bank Statements.....	1												1
Bills of Sale.....	77	65	64	109	102	103	100	102	157	118	105	85	1187
Bonds.....	5	2	4	1		1	6	9	6	15	11	3	63
Builders' Contracts and Bonds.....	140	175	124	123	97	125	119	107	197	179	176	209	1771
Certificates of Birth, Death, Etc.....	70	61	44	40	24	31	30	20	29	4	3		356
Certificates of Redemption—State.....						4	3	4	2	1	1		18
Certificates of Sale, Assignments and Redemptions.....	2	3	5	1	4	1	1	4	2	3	5	6	37
Decrees.....	31	30	9	11	39	36	42	27	35	42	45	45	392
Deeds.....	808	928	795	864	903	993	980	924	1231	1195	1153	1180	11954
Deeds of Trust.....	103	133	92	107	116	118	112	113	114	107	114	114	1343
Election, Expenses (Statements of).....	9	18	22	23	15	20	22	21	25	21	22	22	240
Homesteads, Declarations and Abandonments.....	10	7	13	36	17	8	17	15	25	10	25	11	194
Judgments, Abstracts and Transcripts, Satisfactions, and Assignments.....	37	53	45	42	54	62	43	47	59	63	71	56	632
Leases, Assignments and Surrenders.....	54	62	37	96	96	97	92	96	113	96	70	56	965
Lis Pendens.....	23	28	28	27	31	32	29	30	38	41	34	37	378
Maps.....	441	352	403	445	395	429	428	284	400	327	399	542	4845
Marriage Certificate and Licenses.....													1
Marriage Contracts.....	30	33	31	46	46	60	45	48	68	40	39	42	528
Miscellaneous.....	180	194	159	157	174	184	164	159	183	176	130	153	2013
Mortgages of Personal Property.....	355	419	408	384	361	414	409	386	493	467	480	452	5028
Mortgages of Real Property.....													
Partnerships, Limited.....	21	29	39	27	23	22	23	35	35	30	22	23	329
Powers of Attorney, Revocations, Substitutions.....	65	81	99	81	71	70	80	69	101	59	81	72	929
Probates, Decrees of Distribution, etc.....	77	77	65	78	58	83	100	99	117	96	101	89	1040
Reconveyances.....	77	74	59	95	83	81	84	94	102	86	95	67	997
Releases of Personal Property Mortgages.....	225	249	235	256	273	246	309	300	363	280	292	296	3324
Releases of Real Estate Mortgages.....	1												2
Separate Property of Wife.....													3
Sole Trader.....							1		1				3
Tax Certificates.....													201
Tax Deeds.....		201											201
Architect's Certificate.....												2	5
Total.....	3002	3500	2959	3285	3208	3457	3484	3193	4122	3669	3689	3792	41360

MONTHLY RECEIPTS PAID INTO THE TREASURY.

1904—	July.....	\$4,616.55
	August.....	5,170.10
	September.....	4,704.10
	October.....	5,005.95
	November.....	4,928.65
	December.....	5,280.80
1905—	January.....	5,330.15
	February.....	4,886.25
	March.....	6,280.30
	April.....	5,709.75
	May.....	5,593.95
	June.....	5,824.40
	Total.....	\$63,330.95

MONTHLY STATEMENT OF SALARIES AS CHARGED AGAINST THE
RECORDER'S APPROPRIATION:

1904—	July.....	\$3,645.24
	August.....	3,828.72
	September.....	3,318.60
	October.....	3,351.12
	November.....	3,406.72
	December.....	3,388.08
1905—	January.....	3,335.24
	February.....	3,332.56
	March.....	3,413.50
	April.....	3,527.74
	May.....	3,355.96
	June.....	3,496.72
	Total.....	\$41,400.20

RECAPITULATION.

Total Receipts for Fiscal Year 1904-1905.....	\$63,330.59
Total Expenses for Fiscal Year 1904-1905.....	41,400.20
Surplus to Credit of Department.....	\$21,930.75

COMPARISON WITH PREVIOUS FISCAL YEAR.

Total receipts for Fiscal Year 1903-04.....	\$57,537.45
Total Receipts for Fiscal Year 1904-05.....	63,330.95
Cash Gain.....	5,793.50

COMPARATIVE STATEMENT FROM 1859 TO 1904, INCLUSIVE

Year.	Papers.	Total Receipts.	Total Expenses.	Surplus.	Deficit.
1859-60.....	5,596	\$18,300.00	\$13,847.00	\$4,453.00	
1860-61.....					
1861-62.....	11,970	34,605.00	26,792.50	7,902.60	
1862-63.....	12,631	33,683.75	24,984.65	8,649.10	
1863-64.....	13,391	34,534.25	33,358.25	1,176.00	
1864-65.....	13,989	37,702.00	29,175.91	8,526.09	
1865-66.....	14,114	37,348.50	28,092.24	9,256.26	
1866-67.....	14,262	43,237.25	30,427.59	12,809.66	
1867-68.....	16,496	51,501.50	37,184.14	4,317.36	
1868-69.....	18,761	55,549.25	42,399.52	13,149.73	
1869-70.....	14,146	44,890.70	36,156.26	8,734.44	
1870-71.....	15,024	44,975.50	35,873.20	11,102.30	
1871-72.....	12,897	41,076.75	35,372.92	5,702.83	
1872-73.....	11,207	34,051.25	34,494.16		442.91
1873-74.....	13,138	32,654.00	30,267.64	2,386.36	
1874-75.....	17,486	44,407.50	38,616.11	5,791.39	
1875-76.....	18,218	46,626.60	38,376.23	6,249.37	
1876-77.....	21,396	51,386.75	40,930.41	10,456.34	
1877-78.....	17,632	42,835.25	36,557.80	6,177.45	
1878-79.....	18,871	38,175.00	34,893.62	3,281.38	
1879-80.....	17,778	34,783.75	33,327.82	1,455.93	
1880-81.....	14,002	31,420.50	29,817.40	1,603.10	
1881-82.....	12,835	31,284.85	32,093.14		808.29
1882-83.....	14,266	34,237.00	30,261.34	3,975.66	
1883-84.....	15,340	38,142.25	31,894.21	6,248.04	
1884-85.....	15,500	38,702.50	32,295.00	6,407.50	
1885-86.....	15,092	37,361.00	31,182.27	5,178.73	
1886-87.....	17,065	43,764.00	33,754.78	10,009.22	
1887-88.....	20,005	53,238.45	36,144.02	17,096.43	
1888-89.....	22,370	53,858.56	43,476.36	10,382.20	
1889-90.....	24,907	64,534.80	42,497.14	22,037.66	
1890-91.....	26,111	68,284.53	45,136.44	23,148.09	
1891-92.....	25,306	66,520.20	38,687.75	27,832.45	
1892-93.....	25,262	60,234.00	43,190.51	17,043.49	
1893-94.....	23,102	55,389.25	40,490.84	14,898.41	
1894-95.....	23,434	58,768.75	41,109.80	17,658.95	
1895-96.....	23,637	61,947.50	42,924.46	19,023.04	
1896-97.....	22,270	34,559.45	41,217.92		6,658.47
1897-98.....	23,713	34,398.85	42,699.02		8,300.17
1898-99.....	22,272	31,803.10	41,679.19		9,876.09
1899-1900*.....	24,622	37,451.05	39,725.22		2,274.17
1900-01.....	25,766	39,584.45	33,852.00	5,732.45	
1901-02.....	29,242	45,539.60	39,040.56	6,499.04	
1902-03.....	35,112	54,077.70	43,000.00	11,077.70	
1903-04.....	37,337	57,537.45	43,900.00	13,637.45	
1904-05.....	41,360	63,330.95	41,400.20	21,930.95	

NOTE: During the first six months of the fiscal year 1899-1900, under the administration of my predecessor and with the Consolidation Act in force, the deficit amounted to \$5,599.58. During the last six months of the year, being the first of my term, the business produced a surplus of \$3,325.41, leaving a net deficit for the year as above stated.

City Attorney's Report

SAN FRANCISCO, July 1, 1905.

To the Hon. E. E. Schmitz,

Mayor of the City and County of San Francisco.

Sir:—

In compliance with Section 9, of Article XVI of the Charter, I herewith submit a report of the business of this office for the fiscal year ending June 30, 1905.

During the year two hundred and forty-one suits were commenced against the City and County or its officers. Two hundred and fifty-three actions in which the City and County was interested were decided in the Justices' and Superior Court; four in the Supreme Court; three in the United States Circuit Court and one in the Supreme Court of the United States. The four that passed through the Supreme Court was decided in favor of the City and County. One of these (*Laws vs. the City and County*) upheld the legality of the recent bond issue of \$17,171,000. Another (*Elder vs. McDougald*) determined the validity of the Charter provision abolishing the fees of stenographers in the Police Courts and continued in effect a system that saves the Municipal Treasury from \$10,000 to \$12,000 a year. A third case (*The Savings and Loan Society against the City and County*) sustained an assessment of something like \$350,000 levied upon solvent credits of the plaintiff's bank. The fourth (*Weaver vs. San Francisco*) resulted in the reversal of a judgment of the Superior Court, which attempted to revive an old claim against the City and County for some \$2000.

In the case taken to the United States Supreme Court (*San Francisco National Bank vs. Dodge*) judgment went against the City and County. Success was with the municipality in the United States Circuit Court, and in the United States Circuit Court of Appeals only to be lost in the highest Court in the land. It is worthy of note that in the final decision four of the judges held with the City and County and five against it, causing a judgment to pass on a vote of one judge. An application was made for a rehearing and a carefully written brief filed therewith, but to no purpose. The effect of the judgment was to render void the taxation of National bank stock and to practically exempt National banks from all taxation in this State.

Considerable progress was made during the year with the trial of the suit of the Spring Valley Water Company against the City and County, now at issue in the United States Circuit Court. The evidence taken, though introduced by the company, was, in the main, favorable to the City and County in that it strengthened the contention that the plant of this corporation is highly over-valued. Furthermore it thoroughly exposed for the first time the past history of the Water Company and the means by which it has reached its present powerful position. The determination of this case will fix the value of the properties of the Spring Valley Company for all time and thus furnish a basis for computing future water rates, or, if deemed advisable, for the purchase of its plant.

Some headway has been made during the last few months toward the acquisition of the properties provided for in the recent bond issue. More than half of the block selected as a site for the new public library has been purchased and over two-thirds of the land desired for the extension of Golden Gate Park to the Presidio Military Reservation acquired either by purchase or condemnation. At least a third of the land set apart for new school houses has been secured and negotiations are now under way for the purchase of probably half the remainder. This work, even where it resulted in amicable settlements as to values, involved the expenditure of a great deal of time in consultation with owners, witnesses and experts and in the examination and comparison of properties. However, with like progress all the property required should be obtained within the next fiscal year.

Through the efforts of this office an act of the legislature was obtained at the last session permitting the taxes collected under the so-called "schools and hospital levy," declared invalid in the case of Whitney against San Francisco, to be returned without litigation. In this way some thousands of taxpayers recovered the money they had paid with little trouble to themselves and without obstruction to the assessor or his officers. At the time the act of the legislature was secured there were pending against the City and County one hundred and seventy-three suits for the recovery of this illegal tax, all of which were settled without trial and on the repayment of the amount of the tax.

An important duty of the office during the year was to give legal advice to the various officers and commissions of the municipality. In all ninety opinions were rendered. The bulk of these were prepared for the Board of Supervisors but at some time during the year every department of the City Government sought and was given legal advice.

There are now pending in the office five hundred and sixty-five cases. Of these five hundred and nineteen are in the Superior and Justices' Courts, ten in the District Court of Appeals; twelve in the Supreme Court; nineteen in the United States Circuit Court; one in the United States Circuit Court of Appeals and four in the Supreme Court of the United States.

A summary of the business of the office follows:

OPINIONS AND COMMUNICATIONS.

THE MAYOR.

April 28, 1905. Advising Mayor of proceedings in E. J. Smith defalcation case.

THE BOARD OF SUPERVISORS.

July 8, 1904. Advising that the Park Commissioners have exclusive control of Great Highway and Supervisors have no authority to lease the same.

August 8, 1904. Advising method for amendment of Charter.

August 8, 1904. Advising that a method be provided by charter amendment for lease of school property by the Board of Education.

August 8, 1904. As to lease of house for Detention Station for Minors.

August 10, 1904. As to the remission of tax penalties.

August 29, 1904. Advising as to the title to the Ocean Front.

September 17, 1904. Calling attention to the cases involving the validity of taxes levied for school and hospital purposes.

November 26, 1904. Advising waiver of appeal in case of Thurston vs. City and County of San Francisco.

November 28, 1904. Advising no appeal be taken in case of Center vs. City and County of San Francisco.

December 7, 1904. Concerning claim of Lillian M. Wheeler for costs of suit.

December 12, 1904. In reference to status of Brooks vs. City and County of San Francisco.

December 23, 1904. Relative to the expunging from the map of a portion of Shipley street.

December 24, 1904. As to authority of Board to close Beach Street.

December 24, 1904. Concerning the refund of taxes paid under protest for new schools and hospitals.

December 27, 1904. Advising no appeal be taken in case of Code vs. City and County of San Francisco.

January 9, 1905. In reference to liability of city for cost of sewer construction in streets supposedly accepted.

January 29, 1905. Holding Board of Public Works must have authorization of Supervisors to enter into contracts.

March 4, 1905. Advising the Board of the amendment of the Political Code extending the time for refund of taxes erroneously or illegally paid

March 6, 1905. Advising that the title to Mission Blocks 86 and 87 is now vested in the City and County.

March 10, 1905. Advising the acceptance of offer of Frank Fischer.

March, 10 1905. Advising the payment of the verdict in Tarpey vs. City and County.

March 21, 1905. In relation to power of Board to grant additional franchise to Atchison, Topeka & Santa Fe Railroad Co.

March 24, 1905. Concerning action by Mayor on demands forwarded for his approval.

April 7, 1905. Advising that the Saturday holiday law applies to the City and County of San Francisco.

April 22, 1905. As to the rights of the Pacific Humane Society to fines collected in Police Court on convictions for cruelty to animals.

April 21, 1905. Advising waiver of appeal in Eaten vs. San Francisco.

April 22, 1905. Advising that property owners are liable for improvement to Point Lobos Avenue.

April 22, 1905. Advising that "Star" is newspaper of general circulation.

April 24, 1905. Advising that the amendments to Section 97 C. C. P. raising salaries applies immediately to Justices of the Peace.

May 2, 1905. As to granting of franchise to Direct Line Telephone Company.

May 14, 1905. As to right of American District Telegraph Company to engage in messenger service business.

May 22, 1905. As to the expunging of Seneca Avenue from the map.

June 13, 1905. As to legality of Ordinance fixing hours of labor for employees of the City and County.

THE BOARD OF PUBLIC WORKS.

August 23, 1904. As to the erection of signs on top of buildings

October 29, 1904. Advising that Board of Supervisors must authorize each contemplated improvement.

March 1, 1905. Holding cul-de-sac on Jackson and Taylor Streets a private way.

March 17, 1905. Concerning the true northerly line of Clay Street from Sansome Street to Battery Street.

April 19, 1905. Advising suit to enjoin encroachments on Clay Street.

April 22, 1905. Relative to liability of street railroads to pave and keep in repair streets.

April 28, 1905. Directing observance of writ of mandate in Roundey vs. Board of Public Works.

May 26, 1905. Advising as to method to be employed in making street assessments.

June 29, 1905. Advising method for assessing cost of sewer construction in Anderson Street.

THE FIRE COMMISSION.

October 7, 1904. Advising as to fireman's right to salary during absence resulting from sickness or injury.

October 17, 1904. As to the case of William Fitzsimmons.

October 24, 1904. As to the approval of demands against funds of Fire Department by the Board of Supervisors.

November 11, 1904. Concerning the salary of John J. Quinn.

May 2, 1905. Referring Board to opinion of Franklin K. Lane on power to fix compensation of substitutes.

June 14, 1905. Referring Board to opinion of Franklin K. Lane on authority of Board to grant vacations to employees.

THE FIRE PENSION FUND COMMISSION.

August 24, 1904. As to authority of Board to increase amount of pensions.

October 18, 1904. Concerning the pension requested by Joseph J. Harrington.

THE POLICE COMMISSION.

August 10, 1904. Advising that an ex-officer cannot withdraw resignation after acceptance.

September 24, 1904. Effect of tie vote of Board on accusations against member of department.

January 26, 1905. Holding charter provisions guaranteeing to members of Police Department trial before dismissal constitutional.

March 11, 1905. As to right of police officer upon retirement to one-half of monthly fee contributable to Police Pension Fund.

May 26, 1905. As to authority of Board to detail officer for duty at Lewis & Clark Exposition.

THE CIVIL SERVICE COMMISSION.

August 12, 1904. As to restoration of resigned applicant to eligible civil service list.

January 27, 1905. Concerning the restoration of a civil service employee dismissed without a trial.

April 1, 1905. Advising that mechanics employed in the construction and repair of school buildings are subject to civil service.

THE TAX COLLECTOR.

January 16, 1905. Advising the re-advertisement of property to be sold for street assessment.

January 26, 1905. Concerning the use of sling shots and air guns in shooting galleries.

March 6, 1905. Concerning liability of insurance companies to pay a license fee.

March 15, 1905. Advising a reference of several questions involving the validity of Charter provisions to judicial determination.

THE RECORDER.

July 9, 1904. Must transmit quarterly report of all deaths, births and marriages to the State Board of Health.

September 13, 1904. As to the compensation of indexing copyists.

March 11, 1905. Relative to the recording of certificates of birth.

THE BOARD OF HEALTH.

January 26, 1905. Concerning the transportation of dead bodies through the limits of the City and County of San Francisco.

March 25, 1905. Concerning the interment of ashes within the limits of the City and County.

THE TREASURER.

July 8, 1904. As to payment of assigned claims when attached by third parties.

April 19, 1905. In reference to the claim of Mae Allen for bail money.

THE SUPERINTENDENT OF SCHOOLS.

September 10, 1904. As to exclusion of children of Mongolian parentage from the public schools.

May 17, 1905. As to the method to be employed in the ascertainment of average daily attendance in schools.

THE BOARD OF EDUCATION.

May 19, 1905. Advising that the Supervisors cannot provide in the budget for a Normal School.

June 3, 1905. Concerning the assigned demands of M. G. Salcido.

June 14, 1905. Advising that permanent employees of Department are entitled to benefits of Saturday holiday law.

June 28, 1905. Concerning the disposition of a donation of money to the department.

THE ASSESSOR.

May 20, 1905. As to power to tax bonds of Southern Pacific Co.

THE SHERIFF.

June 29, 1905. Advising as to duties in case of riots of lack of police protection.

THE CHIEF OF POLICE.

January 6, 1905. Power to prevent use of terms "detective" and "police" bureau.

April 5, 1905. As to right of Acting Chief of Police to salary of Chief.

THE PARK COMMISSION.

February 28, 1905. Holding parts of Clay and Octavia Streets part of Lafayette Park.

THE ELECTION COMMISSION.

April 1, 1905. Concerning payment of deputies for over time.

THE COUNTY CLERK.

March 31, 1905. Advising collection of calendar fee in all ex parte proceedings.

 RECAPITULATION.

Number of opinions rendered.....	90
Number of decisions by Superior and Justices' Court.....	253
In favor of City or its officers.....	35
Against City or its officers.....	218
(Of these 27 were suits to quiet title to property in and to which the City had no interest or claim; 173 were judgments by stipulation in cases for the refund of School and Hospital taxes declared illegal.)	
Number of decisions by Supreme Court of U. S. against City.....	1
Number of decisions by Supreme Court of California.....	4
In favor of City or its officers.....	4
Number of decisions by U. S. Circuit Court.....	3
Against City or its officers.....	3
Number of cases transferred from Supreme Court to and decided in District Court of Appeals.....	5
In favor of City or its officers.....	3
Against City or its officers.....	2
Number of cases pending in Superior Court and Justices' Court.....	519
Number of cases pending in Supreme Court of U. S.....	4
Number of cases in Supreme Court in which appeal was dismissed by stipulation.....	44
Number of cases pending in Supreme Court.....	12
Number of cases pending in U. S. Circuit Court.....	19
Number of cases pending in U. S. Circuit Court of Appeals.....	1
Number of cases transferred from Supreme Court to and now pending in the District Court of Appeals.....	10
Total number of cases in office.....	565
Number of cases brought against the City and County or its officers during the fiscal year.....	241
Number of cases brought by the City and County or its officers during fiscal year.....	40

Respectfully,

PERCY V. LONG,
City Attorney.

County Clerk's Report

San Francisco, July 1, 1905.

To the Hon. E. E. Schmitz,

Mayor of the City and County of San Francisco,
State of California:

Dear Sir—In compliance with Section 9, Article XVI of the Charter of the City and County of San Francisco, I herewith respectfully submit the annual report of the County Clerk's office for the fiscal year ending June 30th, 1905.

Upon assuming the office of County Clerk of this City and County, I made a promise to the Public and to your Honor and the Honorable Board of Supervisors, that before the expiration of my term of office, the minutes of the Probate Department, then more than two years behind would be brought up to date and that all the work appertaining to my office would be kept up from day to day.

It must therefore be gratifying to your Honor and the general public, as well as our honorable Board of Supervisors, that at the close of the fiscal year, six months in advance of the time anticipated I am able to file my report and state therein that the probate work referred to heretofore has been caught up and is now fully up to date.

Perhaps no one will appreciate this better than the Searchers of Records, the attorneys and the litigants whom they represent, for now that all probate decrees and orders have been entered and recorded, those persons contemplating appealing to the Supreme Court from the decision of the lower court may now proceed to perfect their appeal and await the final determination of the action without blame being attached to the County Clerk's office for the delay.

Many estates have been tied up by reason of the non-recording of probate orders and decrees heretofore, and the perfecting of the chain of title to real property has thereby been delayed.

In order to bring about this condition of affairs it required the co-operation of every clerk in the office, and only by their united efforts and by putting their shoulders to the wheel was such a result accomplished.

Your Honor is no doubt aware that since the inception of the New Charter the force of the County Clerk's office is but one-half as great as it was in 1880 when the population of this City was considerably less and litigation was in proportion.

My report made a few days ago to the Honorable Finance Committee of the Board of Supervisors shows that within the past six years the receipts of the office and business necessarily incident thereto has increased fifty per cent., which fact is proven by a comparison of the fees collected during said time, and from this I desire to report to our citizens and taxpayers that the County Clerk's office should be self-sustaining from this time on.

For the information of Your Honor and the general public I incorporate a statement of the receipts of the County Clerk's office for the past six years, as follows:

1889	\$49,522.25
1900	50,751.10
1901	55,340.85
1902	58,120.85
1903	64,340.34
1904	67,122.65
1905 (6 months)	37,439.30

During the fiscal year many improvements have been made in the office among which I may mention the following: Rolling ladders have been installed in the various alcoves and thereby access to papers and documents has been made very safe and easy.

Two large metallic rolling rack cases have been placed in the office, which will do much to save wear and tear of the books, and is a step in the direction of installing fire proof furniture in a public office like this.

All the papers and documents in the office have been carefully gone over and thousands of papers which have been marked missing or mislaid for years have been located and are now to be found in their proper place.

Many books have been rebound and properly labeled, and strangers having business with the office can procure what they desire without unnecessary delay.

In conclusion I desire to say that the total receipts of the office for the year ending June 30, 1904, amounted to \$95,866.95, which by comparison with the receipts of the fiscal year just closed, and which amounted to \$113,883.05 show an excess in favor of the fiscal year ending June 30th, 1905, of \$18,016.10.

Very respectfully,

JOHN J. GREIF,
County Clerk and ex-officio Clerk of the
Superior Court.

COUNTY CLERK'S OFFICE.

NUMBER OF CAUSES ON FILE IN THE SUPERIOR COURT, JUNE 30, 1905.

General Department.....	96,925
Probate Department.....	32,583
Adoptions.....	469
Articles of Incorporation.....	21,729
Certificates of Copartnership.....	5,747
Appeals from Justices' Court (including abstracts).....	10,340
Coroner's Inquests.....	11,023
Informations, Indictments and Appeals from Police Court.....	15,689
Total number of proceedings on file.....	194,505

DEPOSITS IN COURT IN CIVIL ACTIONS.

Amount on deposit June 30, 1905.....	\$166,301.41
Amount deposited during the year ending June 30, 1905.....	44,698.18
	210,999.59
Withdrawn by Order of Court.....	118,465.07
Balance on deposit June 30, 1905.....	\$92,534.52

RECEIPTS FOR THE YEAR ENDING JUNE 30, 1905.

General Department.....	\$44,358.25
Probate Department.....	16,494.70
Marriage License Department.....	9,939.00
Fines imposed, Superior Court.....	125.10
Fines imposed, Police Court:—	
Department No. 1.....	6,987.00
Department No. 2.....	5,221.00
Department No. 3.....	15,553.50
Department No. 4.....	7,619.00
	\$106,297.05
Law Library Taxes.....	7,586.00
Total Receipts.....	\$113,883.05

DISBURSEMENTS FOR YEAR ENDING JUNE 30, 1905.

Stationery (refer to Stationery Clerk).....	
Transcript on appeal (refer to Auditor).....	
Salary of County Clerk.....	\$4,000
Salary of Deputies, Copyists and Messenger.....	72,600
Total Disbursements.....	\$76,600

MARRIAGE LICENSE DEPARTMENT.

Number of Marriage Licenses Issued from July 1, 1904, to and including June 30, 1905.

1904.		1905.	
July.....	377	January.....	395
August.....	366	February.....	368
September.....	425	March.....	348
October.....	449	April.....	422
November.....	432	May.....	369
December.....	439	June.....	497
Total.....			14,887

Medical certificates recorded during fiscal year.....	115
Dental certificates recorded during fiscal year.....	43
Certificates in Optometry.....	32
Veterinary certificates filed.....	None
Auctioneer bonds.....	12
Notarial bonds.....	20

CIVIL ACTIONS COMMENCED IN THE SUPERIOR COURT DURING YEAR
ENDING JUNE 30, 1905.

JUDGMENT DEPARTMENT.

Number of causes of actions filed during the fiscal year ending June 30, 1905.....	5,499	
Number of causes dismissed.....		382
Number of causes adjudicated.....		2,050
Number of causes transferred.....		56
Number of causes pending.....		3,011
Totals.....	5,499	5,499

APPEALS FROM THE JUSTICES COURT.

Number of appeals taken.....	433	
Number of appeals adjudicated.....		260
Number of appeals dismissed.....		12
Number of appeals pending.....		161
Totals.....	433	433

Number of abstracts filed from Justices Court and executions issued thereon .. 60

Number of adoptions filed during year..... 37

CERTIFICATES OF COPARTNERSHIP.

Number on file June 30, 1904.....	5,662	
Number filed during fiscal year.....	85	
Total on file.....		5,747

ARTICLES OF INCORPORATION.

Number on file June 30, 1904.....	20,604	
Number filed during fiscal year.....	1,129	
Total on file.....		21,729

Appeals from Justices' Court (including abstracts)..... 493

Coroner's inquests filed during year..... 545

NATIONALITIES OF NATURALIZATIONS FOR THE YEAR ENDING JUNE
30, 1905

Azores Islands.....	66	Isle of Man.....	2
Austria.....	71	India.....	2
Australia.....	17	Japan.....	2
Brazil.....	1	Mexico.....	11
Belgium.....	3	Norway.....	79
Cape Verde Islands.....	1	New Zealand.....	6
Canada.....	51	New Brunswick.....	3
Chili.....	1	Nova Scotia.....	5
Denmark.....	70	Poland.....	8
Danish West Indies.....	1	Portugal.....	22
England.....	133	Prince Edward Island.....	1
Egypt.....	1	Russia.....	62
East Indies.....	1	Roumania.....	3
Finland.....	27	Scotland.....	48
France.....	79	Sweden.....	157
Germany.....	319	Switzerland.....	76
Greece.....	84	Spain.....	6
Guatemala.....	1	South Africa.....	2
Hungary.....	6	Turkey.....	33
Holland.....	3	Tahiti.....	1
Hawaii.....	1	United States of Colombia.....	1
Ireland.....	209	West Indies.....	1
Italy.....	142	Wales.....	4
Isle of Martinique.....	1		
		Total.....	1,824

DECLARATION OF INTENTIONS FOR YEAR ENDING JUNE 30, 1905.

Austria.....	158	Isle of Man.....	5
Australia.....	76	Jamaica.....	6
Argentine Republic.....	4	Japan.....	1
Azores Islands.....	3	Luxemburg.....	2
Afghanistan.....	1	Mexico.....	24
Armenia.....	1	Norway.....	192
Arabia.....	1	New Zealand.....	18
Belgium.....	18	Nova Scotia.....	7
British West Indies.....	8	Nicaragua.....	2
Bohemia.....	5	Natal.....	1
British India.....	1	Poland.....	29
Bulgaria.....	2	Peru.....	17
Brazil.....	5	Philippine Islands.....	21
Canada.....	63	Portugal.....	39
Chili.....	41	Persia.....	1
Cuba.....	2	Porto Rico.....	4
Cayenne.....	1	Panama.....	4
Cape Verde Islands.....	1	Roumania.....	27
Denmark.....	110	Russia.....	129
England.....	284	Sweden.....	294
Ecuador.....	1	Scotland.....	97
East Indies.....	1	San Salvador.....	2
France.....	112	Syria.....	5
Finland.....	135	Switzerland.....	109
Germany.....	496	Spain.....	133
Greece.....	75	South Africa.....	4
Guatemala.....	2	Turkey.....	15
Holland.....	22	Tasmania.....	1
Hungary.....	38	United States of Colombia.....	3
Ireland.....	363	United States of America.....	3
Italy.....	344	Wales.....	7
Isle of Malta.....	2	Western Isles.....	1
Isle of Martinique.....	1		
		Total.....	3,580

INSANE COMMITMENTS AND DISCHARGES.

Number of examinations of insane during year ending June 30, 1905.....	632
Number committed to hospitals.....	470
Number examined and discharged.....	162
	632

	Males	Females	Total
Agnews.....	28	61	89
Napa.....	64	49	113
Stockton.....	97	48	145
Mendocino.....	99	24	123
Totals.....	288	182	470

Number committed to the California Home for the care and training of Feeble-Minded Children at Eldridge, Sonoma County.

	Males	Females	Total
Committed.....	2	8	10

NATIONALITIES OF INSANE

Austria.....	5	Ireland.....	55
Azores Islands.....	1	Japan.....	5
Australia.....	1	Montenegro.....	1
Belgium.....	1	Mexico.....	5
China.....	18	New Brunswick.....	2
Canada.....	7	Norway.....	7
Chili.....	3	Prussia.....	1
Denmark.....	6	Roumania.....	1
East Indies.....	1	Russia.....	8
England.....	20	Sweden.....	11
France.....	17	Scotland.....	5
Finland.....	6	Spain.....	2
Germany.....	40	Switzerland.....	4
Greece.....	3	United States.....	194
Hungary.....	1	Unknown.....	23
Italy.....	14	Wales.....	2
Total.....			470

GENERAL SUMMARY.

Number of civil actions commenced during year.....	5,499
Number of adoptions filed during year.....	37
Number of appeals from Justices' Court (including abstracts).....	493
Number of Marriage licenses issued during year.....	4,887
Number of medical certificates recorded.....	115
Number of dental certificates recorded.....	43
Number of Coroner's inquests filed.....	545
Number of auctioneer's bonds filed.....	12
Number of notarial bonds filed.....	20
Number of veterinary certificates filed.....	None
Number of Optometry certificates recorded.....	32
Number of Articles of Incorporation filed.....	1,129
Number of certificates of copartnership.....	85
Number of certificates of naturalization issued.....	1,824
Number of declaration of intention issued.....	3,580
Number of estates commenced in Probate Department.....	1,787
Number of Letters issued in Probate.....	1,861
Number of claims filed Probate Department.....	1,574
Number of examinations of insane.....	632
Number of informations, indictments and appeals from Justices' Court filed.....	15,689
Total.....	39,844

COMPARISON OF RECEIPTS.

Total receipts for year ending June 30, 1904.....	\$95,866.95
Total receipts for year ending June 30, 1905.....	113,883.05
Excess of receipts in favor of fiscal year ending June 30, 1905.....	\$18,016.10

PROBATE DEPARTMENT 1904-1905.

MONTH.	ESTATES COMMENCED.					LETTERS ISSUED.					Fees Remitted	Fees Deferred	Claims	Clerk's Fees	Law Library	
	Number	Dec'd. Guardianship				Testamentary	Administration	Adm. with Will	Special	Guardianship						
		Testate	Intestate	Minor	Incompetent											Insane
1904.																
July	123	66	18	8	1	25	66	6	5	26	2	11	109	\$ 1,188.45		123.00
August	142	40	27	5	3	35	66	5	7	36	2	13	162	1,421.10		142.00
September	148	40	27	5	3	33	75	7	4	33	4	22	154	1,347.90		148.00
October	117	34	62	15	5	20	62	14	5	21	3	15	151	1,184.95		117.00
November	153	30	85	31	6	25	85	5	10	38	5	18	99	1,265.80		153.00
December	154	27	74	39	2	20	74	7	11	53	8	14	166	1,236.00		154.00
1905.																
January	165	43	22	7	2	40	91	3	14	31	5	12	86	1,431.15		165.00
February	139	35	74	4	1	25	74	10	6	30	..	19	162	1,457.95		139.00
March	167	39	99	24	5	30	99	9	12	29	2	9	125	1,877.90		167.00
April	162	47	90	21	3	1	40	7	9	25	3	22	104	1,316.95		162.00
May	159	38	80	26	15	31	80	7	7	41	3	9	143	1,357.30		159.00
June	158	38	87	26	6	28	75	2	8	29	2	14	113	1,409.25		158.00
Totals	1,787	442	949	299	84	352	937	82	98	392	39	178	1,574	\$16,494.70		\$1,787.00

FELONY CASES HELD TO ANSWER IN THE POLICE COURT AND SENT TO

Defendants.

Arson.....	
Assault by means and force to produce great bodily harm.....	
Assault with a deadly weapon.....	
Assault with intent to commit murder.....	
Assault with intent to commit rape.....	
Assault with intent to commit robbery.....	
Attempt to commit burglary.....	
Assault with intent to commit the infamous crime against nature.....	
Bigamy.....	
Burglary.....	
Bribery.....	
Crime against nature.....	
Embezzlement.....	
Forgery.....	
Fraudulently attempting to induce a person to give false testimony.....	
Fraudulently voting at a Primary Election.....	
Grand Larceny.....	
Incest.....	
Interference with electric wires.....	
Lewd and Lascivious act.....	
Making and passing a fictitious check.....	
Manslaughter.....	
Mayhem.....	
Murder.....	
Obtaining money or property by false pretenses.....	
Offering a bribe.....	
Passing a fictitious check.....	
Petit larceny, second offense.....	
Presenting a false and fraudulent claim.....	
Rape.....	
Receiving stolen goods.....	
Receiving a bribe.....	
Robbery.....	
Seduction under promise of marriage.....	
Taking away a female for the purpose of prostitution.....	
Wilful and corrupt misconduct in office.....	
Totals.....	

THE SUPERIOR COURT FOR FINAL TRIAL AND DISPOSITION OF SAME.

Convicted	Dismissed					Pending					Total.....			
	As Charged	Of Lesser Offense	Acquitted	No Evidence to Convict.	Defts. Sentenced on other Charges	In Furtherance of Justice	On Habeas Corpus	On Demurrer	Defts. Discharged on their own recognizance	Against Defts. Sentenced on other Charges		Against Defts. Insane	Against Minors in Industrial School	Against Fugitives from Justice	For Trial June 30, 1905.
2	2	7	1	1	1	1	1	1	1	1	1	1	1	2
6	6	3	1	1	1	1	1	1	1	1	1	1	1	22
15	5	3	1	1	1	1	1	1	1	1	1	1	1	34
1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
6	1	2	1	1	1	1	1	1	1	1	1	1	1	10
5	1	1	1	1	1	1	1	1	1	1	1	1	1	7
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
96	5	18	2	2	2	2	2	2	2	2	2	2	2	3
1	1	1	1	1	1	1	1	1	1	1	1	1	1	147
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	4	4	1	1	1	1	1	1	1	1	1	1	1	10
8	1	1	1	1	1	1	1	1	1	1	1	1	1	27
9	1	1	1	1	1	1	1	1	1	1	1	1	1	19
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	16	5	1	1	1	1	1	1	1	1	1	1	1	88
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1	1	1	6
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
8	3	4	1	1	1	1	1	1	1	1	1	1	1	41
2	1	1	2	2	2	2	2	2	2	2	2	2	2	19
4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	6
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	3	2	2	2	2	2	2	2	2	2	2	2	11
1	1	3	2	2	2	2	2	2	2	2	2	2	2	5
1	1	3	2	2	2	2	2	2	2	2	2	2	2	1
28	5	3	2	2	2	2	2	2	2	2	2	2	2	49
1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	5
233	43	56	14	2	6	13	3	13	20	3	5	23	106	540

DISPOSITION MADE OF CASES PENDING JULY 1, 1904, FOR TRIAL, AND
CASES RECEIVED DURING THE YEAR ENDING JUNE 30, 1905.

Cases reported pending July 1, 1904, against defendants for trial.....	127	
Cases received during the year ending July 1, 1905.....	413	
Writs of Habeas Corpus pending June 30, 1904.....	29	
Writ of Habeas Corpus received during the year ending June 30, 1905.....	209	
Appeal from police courts pending July 1, 1904.....	19	
Appeals from police courts filed during the year ending June 30, 1905.....	61	
Convicted as charged.....		233
Convicted of lesser offense.....		43
Acquitted.....		56
Dismissed, no evidence to convict.....		14
Dismissed, defendants sentenced on other charges.....		2
Dismissed in furtherance of justice.....		6
Dismissed on Habeas Corpus.....		13
Dismissed on demurrer.....		3
Pending June 30, 1905, against defendants discharged on their own recognizance.....		13
Pending June 30, 1905, against defendants sentenced on other charges.....		20
Pending June 30, 1905, against defendants insane.....		3
Pending June 30, 1905, against defendants minors in Industrial School.....		5
Pending June 30, 1905, against defendants fugitives from justice.....		23
Pending June 30, 1905, against defendants for trial.....		106
Writs of Habeas Corpus dismissed prisoners remanded.....		159
Writs of Habeas Corpus granted prisoners discharged.....		27
Writs of Habeas Corpus dismissed prisoners admitted to bail.....		3
Writs of Habeas Corpus dismissed.....		10
Writs of Habeas Corpus disposed of by consent.....		3
Writs of Habeas Corpus stricken from calendar.....		3
Writs of Habeas Corpus granted as prayed.....		1
Writs of Habeas Corpus pending June 30, 1905.....		32
Appeals from police courts judgment affirmed.....		31
Appeals from police courts judgment modified.....		6
Appeals from police courts dismissed for want of prosecution.....		3
Appeals from police courts dismissed appellant dead.....		1
Appeals from police courts dismissed judgment reversed.....		10
Appeals from police courts dismissed by consent of appellant.....		2
Appeals from police courts pending June 30, 1905.....		27
Totals.....	858	858

APPEALS FROM POLICE COURTS.

Appeals pending July 1, 1904.....	19	
Appeals filed during the year ending June 30, 1905.....	61	
Judgments affirmed.....		31
Judgment modified.....		6
Appeals dismissed for want of prosecution.....		1
Appeals dismissed, appellant dead.....		3
Appeals dismissed by consent of appellant.....		2
Appeals dismissed, judgment reversed.....		10
Appeals pending June 30, 1905.....		27
		<hr/>
Totals.....	80	80

WRITS OF HABEAS CORPUS.

Writs pending July 1, 1904.....	29	
Writs received during the year ending June 30, 1905.....	209	
Writs dismissed, prisoner remanded.....		159
Writs granted, prisoner discharged.....		27
Writs stricken from calendar.....		3
Writs disposed of by consent.....		3
Writs dismissed, petitioner admitted to bail.....		3
Writs dismissed.....		10
Writs granted as prayed for.....		1
Writs pending June 30, 1905.....		32
		<hr/>
Totals.....	238	238

REMITTITURS RECEIVED FROM SUPREME COURT.

Remittiturs received during the fiscal year ending June 30, 1905.....	12	
Affirmed.....		7
Reversed.....		3
Reversed and cause remanded for a new trial.....		1
Dismissed.....		1
		<hr/>
Totals.....	12	12

COMMITMENTS TO WHITTIER STATE SCHOOL.

Committed on Information.....		2
Committed on Petition.....		2
		<hr/>
Totals.....		4

COMMITMENTS TO PRESTON SCHOOL OF INDUSTRY.

Committed on Information.....		6
Committed on Petition.....		1
		<hr/>
Totals.....		7

PETITIONS FOR COMMITMENT OF DEPENDENT CHILDREN.

Pending June 30, 1904.....	5
Petitions filed ending June 30, 1905.....	98
Committed to Youths' Directory.....	2
Committed to St. Joseph's Orphan Asylum.....	20
Committed to St. Catherine's Training School.....	2
Committed to care of Miss M. Garrity.....	1
Committed to Detention Home.....	1
Committed to Boys' and Girls' Aid Society.....	4
Committed to care of C. A. Clevis.....	1
Committed to Cathedral Mission.....	1
Committed to care of Mrs. Anna Depold.....	2
Committed to Little Sisters' Infant Shelter.....	2
Committed to California Society for Prevention of Cruelty to Children.....	1
Committed to St. Vincents Orphan Asylum.....	20
Committed to Roman Catholic Orphan Asylum.....	9
Committed to care Mrs. M. Mier, Petaluma.....	1
Committed to Volunteers of America (Miss Maude Booth).....	2
Restored to custody of mother.....	3
Ordered off Calendar.....	4
Released on Probation.....	10
Dismissed.....	2
Pending June 30, 1905.....	15
Totals.....	<hr/> 103 103

Justice's Clerk Report

San Francisco, Cal., August 9, 1905.

Hon. Eugene E. Schmitz,
 Mayor of the City and County of San Francisco.
 City Hall, City.

Dear Sir—I have the honor to submit herewith my report of the business transacted by the Justices' Court of the City and County of San Francisco, for the fiscal year ending June 30th, 1905:

Number of actions filed for which fees were received.....	8,508	
Number of actions filed in "forma pauperis".....	20	
Number of "Official" actions filed.....	1	
		8,529
Number of actions tried and judgments rendered.....	2,970	
Actions dismissed without trial.....	415	
Actions still pending.....	5,144	
		8,529
Total.....		8,529
Judgments appealed from and cases transmitted to the Superior Court		256

RECEIPTS.

Fees collected and paid into Treasury:		
For filing complaints and entering judgments.....	\$24,131.00	
Sundries.....	2,050.25	
		\$26,181.25
Total fees collected.....		\$26,181.25

DISBURSEMENTS.

Salary of Presiding Justice and four assistants.....	\$13,487.50	
Salary of Clerk and four assistants.....	8,400.00	
		\$21,887.50
Excess of receipts over disbursements.....		\$4,293.75

Respectfully submitted,

GEO. S. McCOMB, Justices' Clerk.

District Attorney's Report

San Francisco, Cal., June 30, 1905.

To the Hon. E. E. Schmitz,

Mayor of the City and County of San Francisco:

Dear Sir—Herewith I have the honor to submit my report as the District Attorney of the City and County of San Francisco for the year ending June 30, 1905.

The number of felony cases filed in the Superior Court for the year was 413. This is a marked increase over the year preceding when the number was 364.

The following table shows the results of prosecutions of persons charged with the higher classes of felonies and is also an index to the character of crimes prevalent in San Francisco:

Crime.	Con- victions.	Ac- quittals.
Robbery.....	33	3
Forgery.....	9	0
Passing Fictitious Checks.....	5	0
Grand Larceny.....	39	5
Assault to Murder.....	20	3
Murder.....	13	3
Embezzlement.....	8	1
Burglary.....	101	18
Assault to Commit Robbery.....	6	2
Assault to Commit Burglary.....	5	0
Violation of Election Laws.....	3	0
Arson.....	2	0

While the impression is prevalent that persons charged with murder are seldom convicted and are not given the extreme penalty in aggravated cases, this is not borne out by the facts in San Francisco, for during the last two years twenty-eight persons so charged have been convicted; two persons, Henry Milton and Chew Lang Ong, sent from this city have been executed at San Quentin and judgment of death has been passed upon six others namely: Frank Woods, Leon Soeder, Joseph Feld, Quan Quock Wah, Thomas Fallon and August Geber. While of all cases heard about eighty-five per cent. have resulted in convictions.

During the year last past there have been filed sixty-one appeals from the Police Court to the Superior Court.

Judgment has been affirmed in thirty-one cases.

Judgment modified in six cases.

Judgment dismissed in six cases.

Judgment reversed in ten cases.

The number of writs of Habeas Corpus issued in criminal cases during the year ending June 30, 1905, was two hundred and nine.

Writs dismissed and persons remanded, one hundred and fifty-nine.

Writs dismissed by consent, etc., sixteen.

Writs granted and persons discharged, twenty-seven.

Writs dismissed, petitioners admitted to bail, three.

The District Attorney, in addition to the prosecution of criminal cases has been called upon to represent the Chief of Police in a large number of injunction proceedings brought in the various departments of the Superior Courts, and in which proceedings it was sought to prevent police officers from entering upon premises and making

arrests where there was ground for believing that the statutes of the state and the ordinances of the city were being violated. In all these cases final judgment has gone in favor of the Chief of Police and permanent injunctions have been refused. There were nine such actions where injunctions were applied for in favor of places where gambling was alleged to have been conducted and twelve for houses where prostitution was carried on.

The Supreme Court of California in the late decision of Pon vs. Wittman has sustained our contention that the police cannot be enjoined by a court of equity from entering and having supervision over places where they have reason to believe the law has been violated and others are permitted to enter.

In the case of Ah Sin vs. Wittman, where the validity of the so-called barricade ordinance was attacked on Appeal to the Supreme Court, we represented the Chief of Police, and succeeded in having the constitutionality of said ordinance established by the highest court in the land. The ordinance prohibits the "exposure of gambling tables or implements in a room barred or barricaded or protected in any manner to make it difficult of access or ingress to police officers when three or more persons are present." The enforcement of this ordinance renders possible the control of gambling in the Chinese quarters.

The office has also appeared in many cases involving the forfeiture of bail bonds and the issuance of writs of review and writs of prohibition running against the Police Courts of the City and County.

In the case of Chin Kim You vs. Police Court, which came up on certiorari, the order of Judge Fritz forfeiting eight thousand, three hundred (\$8300.00) dollars bail money deposited in Chinese gambling cases was in effect sustained by the Superior Court Dept. 8, and the said amount secured to the City.

The work of the Warrant and Bond Department which is connected with the District Attorney's office also shows a material increase during the last fiscal year. The money received for bail is deposited with the City Treasurer daily and quarterly statements made to the Auditor. Said statements and the books of the department show the financial volume of business done:

Deposits for the quarter ending Sept. 30, 1904 amounted to.....	\$ 72,755.00
Deposits for the quarter ending Dec. 31, 1904, amounted to.....	112,576.00
Deposits for the quarter ending March 31, 1905, amounted to.....	130,945.00
Deposits for the quarter ending June 30, 1905, amounted to.....	71,425.00

Total deposits for fiscal year ending June 30, 1905, amounted to.....\$387,701.00

All complaints and warrants filed in the Police Court are also prepared in the office of the Warrant and Bond Clerk and the said office is kept open day and night.

While more work has been thrown upon the Department during the year just passed than at any time since its organization, under the Charter, and it became necessary to apply to Your Honor and the Board of Supervisors for permission to appoint an additional assistant, which request was recognized as reasonable and readily granted. I feel pleased to know that we have promptly disposed of the business appertaining to the Department and with gratifying success.

Very respectfully,

LEWIS F. BYINGTON,
District Attorney.

Cases reported pending July 1, 1904, against defendants for trial.....	128	
Cases received during the year ending June 30, 1905.....	414	
Writs of Habeas Corpus pending July 1, 1904.....	29	
Writs of Habeas Corpus received during the year ending June 30, 1905.....	209	
Appeals from Police Courts pending July 1, 1904.....	19	
Appeals from Police Courts filed during the year ending June 30, 1905.....	61	
Convicted as charged.....		235
Convicted of lesser offense.....		43
Acquitted.....		56
Dismissed—No evidence to convict.....		14
Dismissed—Defendants sentenced on other charges.....		2
Dismissed in furtherance of justice.....		6
Dismissed on Habeas Corpus.....		13
Dismissed on demurrer.....		3
Pending June 30, 1905, against defendants discharged on their own recognition.....		13
Pending June 30, 1905, against defendants discharged on other charges.....		20
Pending June 30, 1905, against defendants insane.....		3
Pending June 30, 1905, against defendants minors in Industrial School.....		5
Pending June 30, 1905, against defendants fugitives from justice.....		23
Pending June 30, 1905, against defendants for trial.....		106
Writs of Habeas Corpus dismissed prisoners remanded.....		159
Writs of Habeas Corpus granted prisoners discharged.....		27
Writs of Habeas Corpus dismissed prisoners admitted to bail.....		3
Writs of Habeas Corpus disposed of by consent prisoner admitted to bail.....		3
Writs of Habeas Corpus stricken from calendar.....		3
Writs of Habeas Corpus granted as prayed for.....		1
Writs of Habeas Corpus pending June 30, 1905.....		32
Writs of Habeas Corpus dismissed.....		10
Appeals from Police Courts—Judgment affirmed.....		31
Appeals from Police Court—Judgment modified.....		6
Appeals from Police Courts—Judgment dismissed for want of prosecution.....		3
Appeals from Police Courts—Judgment dismissed, appellant dead.....		1
Appeals from Police Court—Dismissed judgment reversed.....		10
Appeals from Police Courts—Dismissed by consent of appellant.....		2
Appeals from Police Courts pending June 30, 1905.....		27
		<hr/>
	860	860
' Appeals pending July 1st, 1904.....	19	
Appeals filed during year ending June 30, 1905.....	61	
Judgment affirmed.....		31
Judgment modified.....		6
Appeals dismissed for want of prosecution.....		3
Appeals dismissed, appellant dead.....		1
Appeals dismissed by consent of appellant.....		2
Appeals dismissed, judgment reversed.....		10
Appeals pending, June 30, 1905.....		27
		<hr/>
	80	80

WRITS OF HABEAS CORPUS.

Writs pending July 1, 1904.....	29	
Writs received during the year ending June 30, 1905.....	209	
Writs dismissed—Prisoner remanded.....		159
Writs granted—Prisoner discharged.....		27
Writs stricken from calendar.....		3
Writs disposed of by consent.....		3
Writs dismissed—Petitioner admitted to bail.....		3
Writs dismissed.....		10
Writs granted as prayed for.....		1
Writs pending June 30, 1905.....		32
		<hr/>
		238
		<hr/>
		238

Sheriff's Report

San Francisco, July 30, 1905.

To the Hon. Eugene E. Schmitz,

Mayor of the City and County of San Francisco:

Dear Sir—I herewith submit to you my annual report for the fiscal year ending June 30, 1905, as per Section 9, Article XVI of the Charter.

OFFICE.

The following are the amounts received and paid into the City and County Treasury as per statement filed with the Auditor:

MONTHS.

1904—July.....	\$1,421.43	1905—January.....	\$1,738.46
“ —August.....	1,481.98	“ —February.....	1,697.13
“ —September.....	1,308.94	“ —March.....	1,952.46
“ —October.....	1,659.48	“ —April.....	2,377.82
“ —November.....	1,696.91	“ —May.....	2,400.23
“ —December.....	1,750.00	“ —June.....	1,579.34
Total paid in for year ending June 30, 1905.....		\$21,064.27	
Received for U. S. Prisoners quarterly account U. S. Marshal and paid into Treasury.....		3,518.40	
Received for U. S. Prisoners Dept. of Immigration and paid into Treas.		356.00	
Grand total paid into Treasury for fiscal year.....		\$24,938.67	

JAIL NO. 1.

In my last report I called attention to the pressing need of a new jail and now that the bonds are approved by the Supreme Court no time should be lost in erecting a building with proper sanitary conditions and where we can feel sure that the inmates cannot escape.

In conformity with a resolution of the Board of Supervisors I shall within a short time file with them plans and suggestions as to how we believe the jail should be constructed and it is our earnest hope that the work will proceed without delay.

Constant vigilance and rigid rules regarding cleanliness are the only means of keeping the present old building habitable.

The thanks of the City are due to the ladies of the California Club for numerous contributions to the jail library, which now comprises about 2000 catalogued volumes.

JAIL NO. 2.

The buildings here are well adapted for jail purposes and all that is required to make this a first class jail is to remove the brick cells and substitute cells of steel.

The buildings, inside and out, have been thoroughly cleaned and painted and everything here is in good condition.

About 150 men are employed in the kitchen, butchershop, tailor shop, stables, and barns, and in repairing and macadamizing the roads in the vicinity of the jail.

JAIL NO. 3.

This jail can scarcely be improved upon and is a fit home for the unfortunate women confined here, nearly all of whom are poor weak creatures, unable to care for themselves.

COMMISSARY DEPARTMENTS.

The number of persons who must be provided for by this department is increasing yearly, the average number during the past fiscal year being over five hundred.

We have saved from our appropriation over \$1,400 which has been expended in buying a new van, two horses, three sets of harness, one cow, carpet and matting for use of jails.

A balance of eighty-one and 18-100 dollars has been turned into the Treasury.

Respectfully submitted,

PETER J. CURTIS, Sheriff.

Annexed to this report will be found financial statement of this office and statistics of jails for the fiscal year 1904-1905.

FINANCIAL STATEMENT FOR THE FISCAL YEAR 1904-1905.

July 1, 1904 to June 30, 1905.

Appropriation for Subsistence of Prisoners.....		\$44,000.00
Expenditures for Subsistence of Prisoners.....	43,933.24	
Cr. Balance.....	66.76	
	<u>\$44,000.00</u>	<u>\$44,000.00</u>
Appropriation for Maintenance of Jails.....		5,000.00
Expenditures for Maintenance of Jails.....	4,991.98	
Cr. Balance.....	8.02	
	<u>5,000.00</u>	<u>5,000.00</u>
Appropriation for Horse Keep and Prison Van.....		600.00
Expenditures for Horse Keep and Prison Van.....	600.00	
	<u>600.00</u>	<u>600.00</u>
Appropriation for Shoeing and Repairs.....		440.00
Expenditures for Shoeing and Repairs.....	433.60	
Cr. Balance.....	6.40	
	<u>440.00</u>	<u>440.00</u>
Appropriation for Horse and Buggy Hire.....		420.00
Expenditures for Horse and Buggy Hire.....	420.00	
	<u>420.00</u>	<u>420.00</u>
Net Cr. Balance June 30, 1905.....		\$ 81.18

The 378 prisoners remaining on hand June 30, 1905, are distributed as follows:

JAIL NO. 1.

Obtaining money by false pretenses

Embezzlement

Convicted and on appeal to Supreme Court—

Arson.....	1
Murder.....	10
Grand Larceny.....	2
Embezzlement.....	1
Robbery.....	5

Forgery.....	2
Manslaughter.....	1
Perjury.....	1
Burglary.....	3
Rape.....	2
Violating Election Law.....	1

Awaiting Trial—

Burglary.....	14
Embezzlement.....	3
Felony.....	4
Murder, Attempt, Assault.....	16
Grand Larceny.....	10
Perjury.....	2
Robbery.....	8
Rape.....	4
U. S. Prisoners Awaiting Trial.....	17
Prisoners Serving Sentences (Trustys).....	14

JAIL NO. 2.

Serving Sentences, Misdemeanors.....	201
U. S. Prisoners Serving Sentences.....	1

JAIL NO. 3.

Women Serving Sentences, Misdemeanor.....	52
Women Awaiting Trial—	
Murder.....	1
Women Convicted on Appeal Supreme Court—	
Murder.....	2

AVERAGE DAILY NUMBER OF PRISONERS IN ALL JAILS

1904—July.....	471
August.....	443
September.....	423
October.....	431
November.....	436
December.....	450
1905—January.....	454
February.....	425
March.....	410
April.....	423
May.....	398
June.....	378

Average daily number of prisoners in all jails for the fiscal year ending June 30, 1905—429.

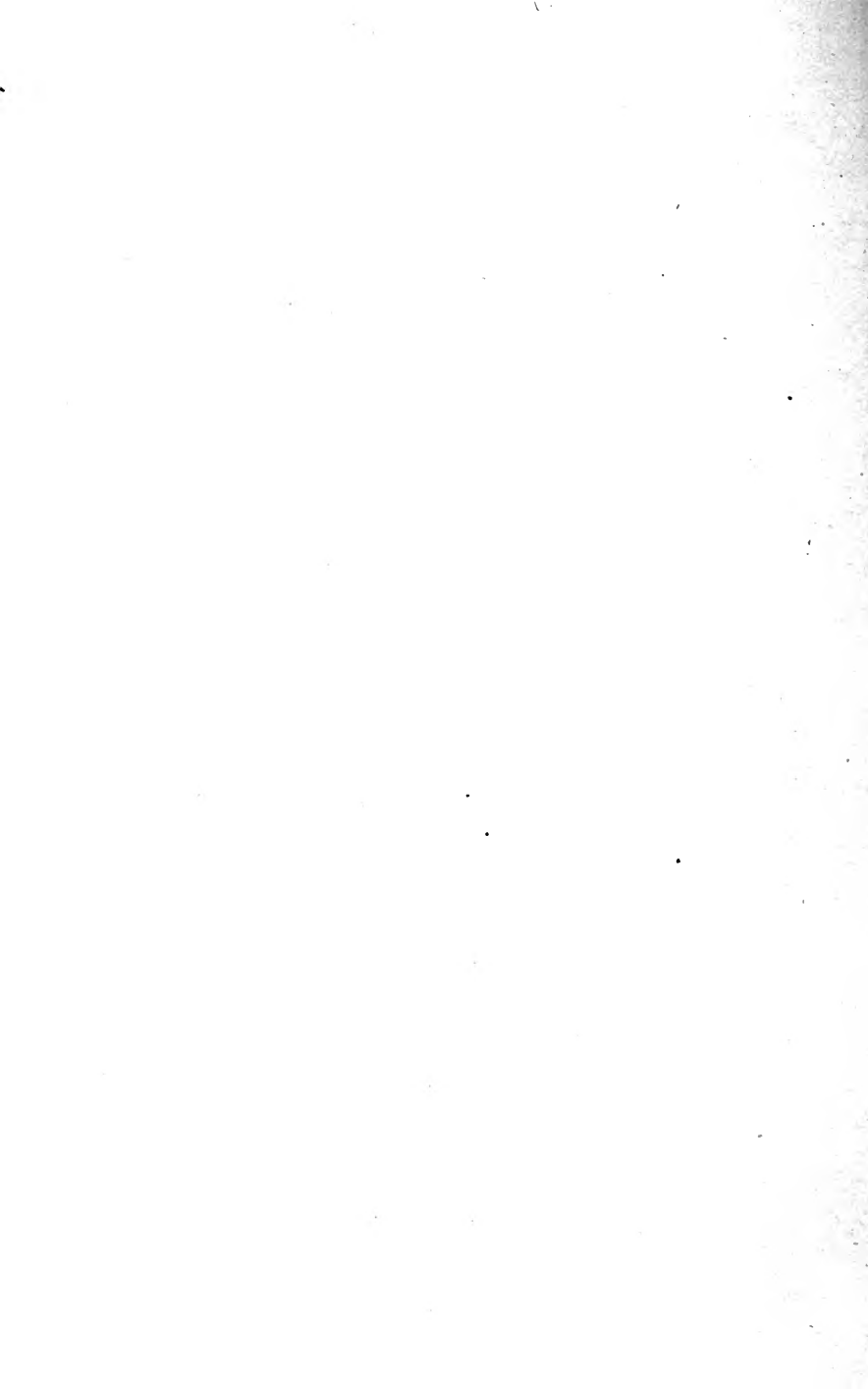
RECAPITULATION.

Prisoners in County Jail July 1, 1904.....	388
Prisoners received July 1, 1904, to June 30, 1905.....	2,643
Total.....	3,031
Prisoners discharged July 1, 1904, to July 30, 1905.....	2,653
Prisoners remaining in County Jail June 30, 1905.....	378

SHERIFF

ANNUAL JAIL STATISTICS 1904-05.—DISPOSITION OF PRISONERS, COUNTY JAIL.

MANNER OF DISPOSITION	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total.
Discharged on expiration of term of sentence.....	93	200	129	202	189	222	201	169	171	143	147	117	1,983
Delivered to U. S. Marshals for transfer, bail or release.....	8	28	54	17	15	9	6	14	9	4	13	10	187
Discharged on payment of fines.....		1		3		2	4			2		2	14
Discharged on bail, Habeas Corpus or Appeal Bond.....		10	4	8	8	9	14	10	6	11	9	7	96
Discharged by order of Court.....	4	2	2	10	3	3	3	2	10	10	6	6	61
Acquitted or charge dismissed.....	5	1	2	4	4		4		2	1	5	1	29
Delivered to sheriffs of other counties en route.....	3	4	5	1	2						1	1	17
Pardoned by President of United States.....													
Pardoned by Governor of the State.....	1				1					1			3
Sent to County Hospital.....													
Sent to Insane Asylum.....		1	1	1			1			1	1		6
Sent to City Prison to Labor.....			8	4		3	7	9	5	4	1	6	47
Sent to the Pest House.....													
Transported to States Prison.....	11	19	16	19	10	10	6	15	12	15	19	18	170
Sent to Alms House.....													
Sent to Industrial School.....		2	4	2	1	1	3		1	1	4	1	20
Escaped.....			3	1	2	1	2		3		1		13
Died.....		1	1		1	1	1	1	1	1			8
Number disposed of each month.....	125	269	229	272	236	261	252	220	220	194	207	169	2,654



Report of Chief of Police

POLICE DEPARTMENT.

San Francisco, July 10, 1905.

To the Honorable E. E. Schmitz,

Mayor of the City and County of San Francisco:

Dear Sir—In compliance with Section 9, Article 16 of the Charter I submit herewith the annual report of the Police Department for the fiscal year ending June 30, 1905.

Respectfully yours,

J. F. DINAN,

Chief of Police.

CHIEF OF POLICE

175

DISPOSITION MADE OF CASES PENDING JULY 1, 1904, FOR TRIAL AND CASES RECEIVED DURING THE YEAR ENDING JUNE 30, 1905.

Cases reported pending July 1, 1904, against defendants for trial.....	127	
Cases received during the year ending June 30, 1905.....	413	
Writs of Habeas Corpus pending July 1, 1904.....	29	
Writs of Habeas Corpus received during the year ending June 30, 1905.....	209	
Appeals from Police Courts pending July 1, 1904.....	19	
Appeals from Police Courts filed during the year ending June 30, 1905.....	61	
Convicted as charged.....		233
Convicted of lesser offense.....		43
Acquitted.....		56
Dismissed, no evidence to convict.....		14
Dismissed, defendants sentenced on other charges.....		2
Dismissed in furtherance of justice.....		6
Dismissed on Habeas Corpus.....		13
Dismissed, demurrer.....		3
Pending June 30, 1905, against defendants discharged on their own recognition.....		13
Pending June 30, 1905, against defendants sentenced on other charges.....		20
Pending June 30, 1905, against defendants insane.....		3
Pending June 30, 1905, against defendants minors in Industrial School.....		5
Pending June 30, 1905, against defendants fugitives from justice.....		23
Pending June 30, 1905, against defendants for trial.....		106
Writs of Habeas Corpus, dismissed, prisoners remanded.....		159
Writs of Habeas Corpus granted, prisoners discharged.....		27
Writs of Habeas Corpus dismissed admitted to bail.....		3
Writs of Habeas Corpus disposed of by consent.....		3
Writs of Habeas Corpus stricken from calendar.....		3
Writs of Habeas Corpus granted as prayed for.....		1
Writs of Habeas Corpus pending June 30, 1905.....		32
Writs of Habeas Corpus dismissed.....		10
Appeals from Police Courts—Judgment affirmed.....		31
Appeals from Police Courts—Judgment modified.....		6
Appeals from Police Courts dismissed for want of prosecution.....		3
Appeals from Police Courts dismissed, appellant dead.....		1
Appeals from Police Courts dismissed—Judgment reversed.....		10
Appeals from Police Courts dismissed by consent of appellant.....		2
Appeals from Police Courts pending June 30, 1905.....		27
		858 858

EXHIBIT "C."

WRITS OF HABEAS CORPUS.

Writs pending July 1, 1904.....	29	
Writs received during the year ending June 30, 1905.....	209	
Writs dismissed, prisoner remanded.....		159
Writs granted, prisoner discharged.....		27
Writs stricken from calendar.....		3
Writs disposed of by consent.....		3
Writs dismissed, petitioner admitted to bail.....		3
Writs dismissed.....		10
Writs granted as prayed for.....		1
Writs pending June 30, 1905.....		32
Total.....	238	238

DELINQUENT CASES HELD TO ANSWER IN THE POLICE COURT AND SENT

	Convicted	
	As Charged	Of Lesser Offense
Arson.....	2	
Assault by means of force likely to produce great bodily harm.....		2
Assault with a deadly weapon.....	6	6
Assault with intent to commit murder.....	15	5
Assault with intent to commit rape.....	1	
Assault with intent to commit robbery.....	6	
Assault with intent to commit infamous crime against nature.....		
Attempt to commit burglary.....	5	
Bigamy.....	1	
Burglary.....	96	5
Bribery.....	1	
Crime against nature.....	4	
Embezzlement.....	8	
Forgery.....	9	
Fraudulently attempting to induce a person to give false testimony.....		
Fraudulently voting at a primary election.....	2	
Grand Larceny.....	23	16
Incest.....	1	
Interference with electric wires.....		
Lewd and Lascivious Act.....	4	
Making and passing fictitious check.....	1	
Manslaughter.....	1	
Mayhem.....		
Murder.....	9	3
Obtaining money by false pretenses.....	2	
Offering a bribe.....		
Passing a fictitious check.....	4	
Perjury.....	1	
Petit larceny, second offense.....	1	
Presenting a false and fraudulent claim.....		
Rape.....	1	1
Receiving stolen goods.....		
Receiving a bribe.....		
Robbery.....	28	5
Seduction under promise of marriage.....	1	
Taking away a female for the purpose of prostitution.....	1	
Violation of election Law by officer of Primary Precinct.....	1	
Wilful and corrupt misconduct in office.....		
	235	43

TO THE SUPERIOR COURT FOR FINAL TRIAL AND DISPOSITION OF SAME

Acquitted	Dismissed					Pending					Total	
	No Evidence to Convict.	Defts. Sentenced on Other Charges	In Furtherance of Justice	On Habeas Corpus	On Demurrer	Defts. Discharged on their own recognizance	Against Defts. Sentenced on Other Charges	Against Defts. Insane	Against Minors in Industrial School	Against Fugitives from Justice		For Trial June 30, 1905
7							1				2	2
3	1					1	2				7	22
1												34
2										1		2
	1										1	10
		1									1	7
	1										1	3
18	2			1		5	8		3		9	147
4						1					1	1
1				2		1	4				12	10
		1				1				3	4	27
1			1			2						19
												1
5	1		3	6	1	2	5	1		15	10	2
												88
											1	1
											1	1
											1	6
											1	1
											1	3
											1	1
4	1			1			1				22	42
1	2					1			2		10	19
											1	1
											4	4
												6
											1	1
											5	11
3	2				1			1				5
3											1	1
3	2					1				2	5	49
											3	4
												1
											5	5
56	14	2	6	13	3	13	20	3	5	23	106	542

SUPPLEMENT No. 1 TO EXHIBIT "A."
 ESCAPES, PRISONERS EN ROUTE, INSANE PERSONS ARRESTED, WITNESSES DETAINED, ETC.

	1904												1905												
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June	
Escapes from Boys and Girls Aid Societies.....																									
Escapes from prison.....	1	143	227	1	1	242	354	718	1892	2536	1523	641	1	1	217	144	8798	6							
Homeless persons lodged in the city prison.....																									
Insane persons en route to asylum.....	26	29	26	15	23	19	6	5	11	4	15	18	24	21	260	2									
Indigent persons arrested.....	13	7	10	14	6	5	11	4	5	11	9	6	8	9	102	2									
Minors en route to various public institutions.....	42	47	55	63	59	39	52	57	57	57	57	59	34	55	619										
Persons arrested on bench warrants from Police Judges and Superior Courts.....	38	21	17	40	28	47	31	43	39	39	39	35	30	369											
Persons surrendered by bondsman.....	3	1	4	4	2	5	90	3	3	3	1	9	1	126											
Persons for medical treatment.....	146	152	172	153	191	196	175	150	152	123	144	138	1892												
Prisoners en route to other cities.....	10	7	15	16	15	14	17	17	23	17	22	14	187												
Prisoners en route to State prison.....	6	9	7	9	9	11	10	13	10	10	8	13	114												
Prisoners detained for U. S. Marshal.....	4	2	1	3	3	2	8	6	8	6	2	1	46												
Witnesses detained in custody.....	1		2	1																					
	451	418	538	561	691	1036	2312	2850	1840	882	504	426	12527												

SUPPLEMENT NO. 2 TO EXHIBIT "A."

REPORT OF POLICE COURT APPEALS TO THE SUPERIOR COURT, AND DISPOSITIONS SAME FOR THE FISCAL YEAR ENDING JUNE 30, 1905.

New Appeals pending June 30, 1904.....	19
Appeals filed during the fiscal year ending June 30, 1905.....	61
Judgments affirmed.....	31
Judgments reversed.....	10
Judgments modified.....	6
Dismissed by reason of death of appellant.....	1
Appeals dismissed by consent.....	2
Dismissed for want of prosecution.....	3
New appeals pending June 30, 1905.....	27
Totals.....	80 80

EXHIBIT "D."

COMPARATIVE STATEMENT OF THE NUMBER OF ARRESTS AND STRENGTH OF THE POLICE FORCE FOR THE THIRTY YEARS ENDING JUNE 30, 1904.

Years.	Number of Officers.	Number of Arrests.	Years.	Number of Officers.	Number of Arrests.
1875-76	150	20,108	1889-90	406	23,549
1876-77	154	21,789	1890-91	406	24,528
1877-78	172	18,627	1891-92	456	28,417
1878-79	329	22,120	1892-93	456	25,987
1879-80	340	21,063	1893-94	456	25,824
1880-81	400	23,011	1894-95	482	25,960
1881-82	400	25,969	1895-96	557	30,462
1882-83	400	24,149	1896-97	559	29,168
1883-84	400	25,591	1897-98	559	28,013
1884-85	400	24,432	1898-99	559	27,769
1885-86	406	26,587	1899-00	588	26,448
1886-87	406	20,385	1900-01	588	27,362
1887-88	406	19,466	1901-02	607	28,480
1888-89	406	23,462	1902-03	643	29,336
			1903-04	671	30,628
			1904-05	707	33,893

EXHIBIT "E."

NUMBER OF WITNESSES SUBPOENAED BY THE POLICE DEPARTMENT FOR THE POLICE AND SUPERIOR COURTS, CORONER AND GRAND JURY, AND LOST CHILDREN RESTORED TO THEIR PARENTS OR GUARDIANS DURING THE FISCAL YEAR ENDING JUNE 30, 1905.

	Subpœnas.	Lost Children.
1904—July.....	870	13
August.....	862	18
September.....	771	16
October.....	950	17
November.....	1,004	9
December.....	955	8
1905—January.....	1,057	9
February.....	811	13
March.....	930	24
April.....	875	9
May.....	939	12
June.....	770	10
Total.....	10,794	158

EXHIBIT "F."

AMOUNT OF PROPERTY REPORTED STOLEN AND LOST AND AMOUNT RECOVERED BY THE POLICE DURING THE FISCAL YEAR ENDING JUNE 30, 1905.

DATE.	Stolen and	
	Lost.	Recovered
1904—July.....	\$10,407.85	\$3,833.55
August.....	6,718.30	5,165.15
September.....	13,158.95	9,407.65
October.....	15,256.15	11,204.10
November.....	12,419.60	5,063.20
December.....	9,281.25	7,463.15
1905—January.....	9,007.15	5,788.05
February.....	10,530.35	8,067.65
March.....	9,364.85	6,840.88
April.....	11,606.70	4,371.05
May.....	10,627.55	9,422.80
June.....	9,274.70	5,367.75
Total.....	\$127,653.40	\$81,994.98

SUPPLEMENT TO EXHIBIT "F."

COMPARATIVE STATEMENT OF AMOUNT OF PROPERTY STOLEN AND LOST, AND AMOUNT RECOVERED BY THE POLICE FOR SIXTEEN YEARS ENDING JUNE 30, 1905.

DATE.	Stolen and	
	Lost.	Recovered.
1889-1890.....	\$75,570.10	\$44,420.25
1890-1891.....	98,868.63	62,310.10
1891-1892.....	90,953.99	52,320.55
1892-1893.....	97,645.10	46,443.60
1893-1894.....	119,159.48	67,371.63
1894-1895.....	98,666.78	59,901.36
1895-1896.....	114,405.70	60,936.40
1896-1897.....	110,442.31	54,375.24
1897-1898.....	96,210.64	61,606.33
1898-1899.....	87,995.80	81,239.04
1899-1900.....	87,375.00	77,238.05
1900-1901.....	65,573.00	70,402.90
1901-1902.....	388,470.00	349,251.57
1902-1903.....	112,783.65	68,072.08
1903-1904.....	114,733.00	68,688.90
1904-1905.....	127,653.40	81,994.98
Total.....	\$1,886,506.58	\$1,306,572.98

EXHIBIT "G."

AMOUNT OF MONEY RECEIVED FROM THE UNITED STATES MARSHAL J. H. SHINE, FOR DETENTION AND KEEPING OF PRISONERS IN THE CITY PRISON DURING THE FISCAL YEAR ENDING JUNE 30TH, 1905.

Date.	Name of Prisoner.	To whom Delivered.	Am't Rec'd.
Sept. 26, 1904.	De Silva, H. L. E.	U. S. Marshal J. H. Shine	\$1.60
July 1, 1904.	Harvey, J. L.	" "	25.20
July 22, 1904.	Marchard, Constance	" "	1.20
July 26, 1904.	Stocklayer, Guy M.	" "	.40
Oct. 18, 1904.	De Silva, H. L. E.	" "	.80
Nov. 17, 1904.	Carey, Jas. H.	" "	18.00
Dec. 16, 1904.	Redd, Harry B.	" "	3.60
Jan. 9, 1905.	Russell, Katie	" "	3.20
Jan. 10, 1905.	Russell, John	" "	2.80
Feb. 10, 1905.	Kanngriser, E.	" "	.80
Feb. 24, 1905.	Domnuakis, Jas.	" "	.80
Mar. 2, 1905.	Earnest, Jas.	" "	.80
Mar. 1, 1905.	Jung Book Lang	" "	.80
Mar. 11, 1905.	Luke, Ray	" "	1.60
Jan. 11, 1905.	Carey, Jas. H.	" "	18.20
April 29, 1905.	Sam Reed	" "	.80
May 8, 1905.	Sam Lee	" "	23.20
May 8, 1905.	Groendike, Samuel, alias A. S. Roberts	" "	.80
May 15, 1905.	Lee, R. B.	" "	6.80
Total.....			\$111.40

EXHIBIT "H."

TOTAL AMOUNT OF FINES PAID INTO THE CITY TREASURY FOR CONVICTIONS IN THE POLICE COURTS FOR THE FISCAL YEAR ENDING JUNE 30, 1905.

DATE.	Dept. 1	Dept. 2	Dept. 3	Dept. 4
1904—July.....	\$ 740.00	\$ 541.00	\$ 510.50	\$
August.....		422.00	817.50	655.00
September.....	345.00	329.00	40.00	286.00
October.....	1,100.00	155.00	75.00	545.00
November.....	565.00	144.00	558.50	665.00
December.....	330.00	1,117.00	8,967.50	691.00
1905—January.....	852.00	601.00	407.50	1,075.00
February.....	442.50	480.00	797.50	690.00
March.....	613.00	595.00	1,999.00	587.00
April.....	674.50	415.00	707.50	675.00
May.....	670.00	62.00	583.00	720.00
June.....	655.00	360.00	90.00	1,080.00
	\$6,987.00	\$5,221.00	\$15,553.50	\$7,619.00

EXHIBIT "I."

POLICE STATIONS AND THEIR LOCATIONS.

Name of Station.	Location.
Central Station.....	Hall of Justice, Kearney and Wash. sts.
City Hall Station.....	City Hall, Larkin and McAllister Sts.
O'Farrell Street Station.....	2117 O'Farrell Street.
North End Station.....	1712 Washington Street.
Golden Gate Park Station.....	506 Stanyan Street.
Southern Station.....	Fourth and Clara Streets.
Potrero Station.....	609 Twentieth Street.
South San Francisco Station.....	S. E. cor. Railroad and 14th Aves.
Mission Station.....	17th and Channel Streets.
Ocean View Station.....	Plymouth St., bet. Sagamore and Ottawa.
Harbor Station.....	N. E. cor. Drumm and Commercial Sts.

EXHIBIT "J."

Strength of the Police Department and summary of action taken by the Board of Police Commissioners in the trial of complaints against members thereof during the fiscal year ending June 30, 1905.

BOARD OF POLICE COMMISSIONERS JUNE 30, 1905.

JOSEPH F. POHEIM, vice JOSIAH R. HOWELL, term expired.

Commissioner and President of the Board.

*ALEX. L. O'GRADY.....Commissioner
 JOHN A. DRINKHOUSE.....Commissioner
 THOMAS REAGAN.....Commissioner
 J. GEORGE BOYNE, vice B. L. CADWALADER, resigned.....Secretary

*Alex. L. O'Grady was appointed to succeed to the unexpired term of Harry W. Hutton, removed by Mayor E. E. Schmitz, January 25, 1905.

NUMERICAL STRENGTH OF POLICE DEPARTMENT JUNE 30, 1905.

Police Commissioners.....	4
Secretary Board of Police Commissioners.....	1
Secretary Board of Police and Pension Fund Commissioners.....	1
Police Surgeon.....	1
Police Stenographer.....	1
Telephone Operators.....	3
Matrons, City Prison.....	2
Cook, City Prison.....	1
Hostler.....	1
Patrol Wagon Drivers.....	24
Chief of Police.....	1
Captain of Detectives.....	1
Captains of Police.....	6
Clerk, Chief of Police.....	1
Property Clerk.....	1
Detective Sergeants.....	15
Lieutenants of Police.....	12
Sergeants of Police.....	44
Corporals of Police.....	19
Police Officers.....	602
Total.....	741

APPOINTMENTS AND REMOVALS DURING YEAR ENDING JUNE 30, 1905.

J. F. Dinan appointed Chief of Police April 5, 1905, vice Geo. W. Wittman, removed.

Chief of Police, appointed.....	1
Chief of Police, dismissed.....	1
Police Officers, appointed.....	63
Police Officers, resigned.....	10
Police Officers, died.....	2
Police Officers, dismissed.....	8
Police Officers, retired.....	7
Patrol Wagon Drivers, appointed.....	9
Patrol Wagon Drivers, resigned.....	9
Matrons City Prison, appointed.....	1
Matrons City Prison, resigned.....	1
Telephone Operators, appointed.....	1
Telephone Operators, died.....	1
Cooks City Prison, appointed.....	1
Cooks, City Prison, retired.....	1

Action taken by Board in trial of members of the Police Force on charges during year ending June 30, 1905.

Number of complaints filed.....	105
Number of complaints sustained by dismissal from the Department.....	9
Number of complaints sustained by fines.....	48
Number of complaints sustained by reprimand.....	8
Number of complaints dismissed.....	40
Aggregate amount of fines.....	\$1,940.00

EXHIBIT "K."

San Francisco, July 1, 1905.

Summary of action taken by the Board of Police Commissioners on applications for permits, as provided by Charter provisions, during the fiscal year ending June 30, 1905.

Retail Liquor Dealers Paying License Tax of \$21 per Quarter.

Total number licensed places July 1, 1904.....	3,073
Application permits received.....	13,154
Withdrawn.....	125
Refused.....	40
Granted.....	12,989
Total number of licensed places July 1, 1905.....	3,060
Loss for the year.....	13
July 1, 1905—	
Saloons.....	2,071
Groceries.....	990

3,061

Total number of Places Closed from July 1, 1904, to July 1, 1905.

Total number closed.....	40
Total number reopened.....	26
Total loss for year.....	13

EXHIBIT "I."

Arrests made during year for violations of liquor license laws and disposition of same by courts.

Number of arrests.....	209
Dismissed.....	136
Convicted.....	55
Pending.....	7
Amount of fines paid after convictions.....	\$2,190.00

Restaurant Retail Liquor Dealers serving liquor only with meals and paying a license tax of \$5 and \$3 per quarter.

Total number of licensed places June 30, 1904.....	416
Applications received during year.....	1,880
Applications refused during year.....	22
Applications withdrawn during year.....	14
Applications granted during year.....	1,844
Applications pending.....	000
Total number of licensed places June 30, 1905.....	468
Net gain.....	52

CHIEF OF POLICE

AUCTIONEERS.

Total number licensed places June 30, 1904.....	46
New permits granted.....	12
	—
Total.....	58
Retired from business.....	12
Total number of places in business June 30, 1905.....	46
Net gain.....	00
Refused.....	3
Revoked.....	3
Withdrawn.....	2

INTELLIGENCE OFFICE KEEPERS.

Total number of licensed places June 30, 1904.....	37
New places opened during year.....	34
	—
Total.....	71
Retired from business.....	14
Revoked.....	4
	—
Total.....	18
Total number of places June 30, 1905.....	53
Net gains.....	15
Applications withdrawn.....	7

PAWNBROKERS.

Total number of places in business June 30, 1904.....	54
New places opened.....	9
	—
Total.....	63
Retired from business.....	6
Total number of places in business June 30, 1905.....	57
Net gain.....	3
Refused.....	1
Withdrawn.....	1

JUNK AND SECOND HAND DEALERS.

Number of places in business June 30, 1904.....	160
Number of places opened during year.....	17
	—
Total.....	177
Number of places closed during year.....	9
Number of places in business June 30, 1905.....	168
Net gain.....	8
Refused.....	4
Withdrawn.....	1
Arrested for conducting business without a license.....	94
Dismissed by Courts.....	90
Convictions.....	2
Pending.....	2
	—
Amount of fines in Police Courts.....	\$10.00

JUNK GATHERERS.

Applications granted from July 1, 1904, to July 1, 1905.....	215
Refused.....	20

PEDDLERS.

Applications received for the year ending June 30, 1904.....	3,212
Applications received for the year ending June 30, 1905.....	3,379
Applications withdrawn for the year ending June 30, 1905.....	6
Net increase.....	161
Arrested for peddling without a license.....	229
Dismissed by courts.....	189
Convicted and fined.....	40
Amount of fines and forfeitures in Police Courts.....	\$190.50

JAS. T. DONOVAN,

License Sergeant.

EXHIBIT "L."

Synopsis of Correspondence and Business transacted in the Office of the Chief of Police during the fiscal year ending June 30, 1905.

Telegrams sent.....	731
Telegrams received and acted upon.....	816
Letters received and acted upon.....	5,480
Letters sent out.....	5,255

EXHIBIT "M."

Number of lottery tickets—exclusive of Chinese—seized by the Police Department during the fiscal year ending June 30, 1905.

Original Little Beneficencia Publica Lottery Company.....	12,772
Original Little Louisiana Lottery Company.....	12,276
Louisiana Lottery Company.....	11,210
National Lottery Company.....	8,745
The Beneficencia Lottery Company.....	5,470
The Little Honduras Syndicate.....	2,130
The Little Beneficencia Publica Lottery Company.....	1,640
The Beneficencia Lottery Company.....	1,164
Original Little Honduras National Lottery Company.....	1,133
Original Little Honduras Company.....	980
The Consolidated Lottery Company.....	717
Property Investment Company.....	11
German Lottery Company.....	8
Total.....	58,256

CHIEF OF POLICE

EXHIBIT "N."

POLICE CONTINGENT FUND.

1904—To cash, \$394.48, and vouchers, \$271.60, on hand June 30.....	\$666.08	
To cash received July 23.....	666.66	
To cash received August 19.....	666.66	
To cash received September 28.....	666.66	
To cash received October 20.....	666.66	
To cash received November 22.....	666.66	
To cash received December 20.....	666.66	
1905—To cash received January 18.....	666.66	
To cash received February 9.....	666.66	
To cash received March 14.....	666.66	
To cash received April 17.....	666.66	
To cash received May 10.....	666.66	
To cash received June 8.....	666.66	\$8,666.00
1904—By bills paid during month of July.....	839.41	
By bills paid during month of August.....	568.42	
By bills paid during month of September.....	486.40	
By bills paid during month of October.....	723.50	
By bills paid during month of November.....	739.26	
By bills paid during month of December.....	661.77	
1905—By bills paid during month of January.....	979.30	
By bills paid during month of February.....	663.15	
By bills paid during month of March.....	658.94	
By bills paid during month of April.....	344.60	
By bills paid during month of May.....	1,100.68	
By bills paid during month of June.....	851.98	
By cash \$5.60, and vouchers \$43.00, on hand June 30, 1905.....	48.59	\$8,666.00
To cash \$394.48, and vouchers \$271.60, on hand June 30, 1904.....	666.08	
To cash received from City and County Treasurer during year.....	7,999.92	\$8,666.00
By amount expended for Police Department incidental expenses, as per receipted vouchers on file during the fiscal year ending June 30, 1905.....	\$8,617.40	
By cash \$5.60, and vouchers \$43.00, on hand June 30, 1905....	48.60	\$8,666.00

EXHIBIT "O."

Statement of the amount of money received and paid into the City and County Treasury, as per Treasurer's receipts on file, for services of Police Officers detailed at various places of amusement, etc., per Section 12, Chapter 10 of the Charter, during the fiscal year ending June 30, 1905.

1904—July.....	\$185.00	
August.....	247.50	
September.....	390.00	
October.....	377.50	
November.....	315.00	
December.....	335.00	
1905—January.....	255.00	
February.....	252.50	
March.....	255.00	
April.....	180.00	
May.....	205.00	
June.....	197.50	\$3,195.00

CHIEF OF POLICE

EXHIBIT "Q."
CAPTAIN'S OFFICE
BUREAU OF DETECTIVES

San Francisco, Cal., July 1, 1905.

J. F. Dinan, Esq., Chief of Police, City:

Sir—I beg to hand you herewith a report showing a synopsis of the work that has received attention at the hands of the Detective Bureau during the fiscal year ending June 30, 1905.

There have been a number of important cases handled by this branch of the Department during the past year, all of which have been successfully closed, or are well on the way toward final disposition.

Respectfully submitted,
Captain of Detectives.

EXHIBIT "R."
REPORTS, AND COMPLAINTS RECEIVED, FROM OCTOBER
6TH, 1904, TO JUNE 30TH, 1905.

Tool Houses, visited.....	13,924
Residences and business places found open.....	437
Dead Animals, reported found on street.....	91
Electric Lights, found unlit.....	6,088
Gas Lights, found unlit.....	2,177
Complaints sent to the Board of Public Works.....	2,173

STAFF OF THE BUREAU.

Captain.....	1
Detective Sergeants.....	15
Special Detail.....	10
Total.....	26

CLERICAL FORCE.

Stenographer.....	1
Photographer.....	1
Clerks.....	2
Total.....	30

ARRESTS.

Felonies.....	412
Misdemeanors.....	742
Fugitives.....	97
Known crooks brought in on suspicion.....	466
Total.....	1,717

DISPOSITION OF CASES.

Felonies.

Convicted.....	157
Acquitted.....	48
Dismissed.....	123
Pending.....	84
Total.....	412

CHIEF OF POLICE

189

Misdemeanors.

Convicted.....	332	
Dismissed.....	364	
Pending.....	46	
	<hr/>	
Total.....		742

Suspects.

Charged.....	285	
Dismissed.....	181	
	<hr/>	
Total.....		466

Fugitives.

Taken to other places for trial.....	97	97
	<hr/>	
Total.....		1,717

SENT TO PRISONS.

San Quentin.....	119	
Folsom.....	49	
County Jail.....	296	
	<hr/>	
Total.....		464

BERTILLON SYSTEM.

Prisoners measured and photographed by the Bureau.....	626	
Received from other Departments.....	294	
Sent to other Departments.....	348	
	<hr/>	
Total.....		1,268

PHOTOGRAPHS

Received.

Foreign.....	287	
San Quentin.....	517	
Folsom.....	413	
Bertillon.....	294	
	<hr/>	
Total.....		1,511

Sent Out.

Bertillon.....	348	
Descriptive.....	1494	
	<hr/>	
Total.....		1,660

REPORTS AND COMPLAINTS.

The total number of reports and complaints made to the Bureau and acted upon during the year, were..... 8,561

PROPERTY.

Estimated value of property reported to the Department as lost or stolen.. \$122,046.45
 Estimated value of property recovered by the Bureau..... 80,327.90

CHIEF OF POLICE

LETTERS.

Received and acted upon.....	2,966	
Written.....	<u>2,438</u>	
Total.....		5,404

TELEGRAMS.

Dispatches received and acted upon.....	816	
Dispatches sent out.....	<u>731</u>	
Total.....		1,547

CIRCULARS.

Received, indexed and filed.....	3,892	
Sent out.....	<u>12,900</u>	
Total.....		16,792

REPORTS.

Reports of pawn brokers and second-hand dealers filed and checked over.....	4,893
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SUBPOENAS

Total number of witnesses served by members of the Bureau, to appear in the Superior Court.....	2,096
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EXHIBIT "P."

SUMMARY OF POLICE PATROL WAGON SERVICE DURING THE FISCAL
YEAR ENDING JUNE 30, 1905.

Stations	Number of runs.....	Prisoners brought to station.....	Fires.....	Number of miles run.....	False alarms.....	Sick and injured taken to the City and County and other Hospitals.....	Sick and injured taken to the Receiving Hospital.....	Insane.....	Prisoners taken to the City Prison from Sub-Station.....	Prisoners taken from City Prison to County Jail.....	Persons taken home.....
Central.....	5,983	6,436	133	5,887	100		721	62		240	3
Southern.....	7,994	6,220	170	11,516	113	2	676	40	7,555		14
Mission.....	3,049	1,681	57	7,737	73	160	114	49	1,648		
Harbor.....	2,514	1,685	91	3,927	74		227	13	2,998		
City Hall.....	3,348	2,134	110	5,423	140		208	69	2,438	2	2
North End.....	1,101	536	64	2,925	47		73	14	1,572		
Golden Gate Park	597	224	20	2,571	25	8	45	8	346		5
O'Farrell.....	771	382	36	2,352	31	4	45	15	519		
Total.....	25,357	19,298	681	42,338	603	174	2,109	270	17,076	244	24

LICENSE DEPARTMENT.

Summary of action taken by the Board of Police Commissioners on application for permits, as provided by Charter provisions, during the fiscal year ending June 30, 1905.

Retail Liquor Dealers Paying License Tax of \$21 per Quarter.

Total number licensed places July 1, 1904.....	3,073
Application permits received.....	13,154
Withdrawn.....	125
Refused.....	40
Granted.....	12,989
Total number of licensed places July 1, 1905.....	3,061
Loss for the year.....	13
July 1, 1905:—	
Saloons (straight).....	1,750
Groceries and Bars.....	972
Restaurants and Bars.....	92
Boarding houses and bars.....	101
Billiard Parlors and bowling alleys.....	8
Dance Halls.....	13
Hotels and Bars.....	65
Concert Halls.....	6
Lodging houses and bars.....	11
Incorporated clubs.....	14
Groceries, no bars.....	18
Bay steamers.....	11
Total.....	3,061
Total number of places closed from July 1, 1904, to July 1, 1905.....	40
Total number of places re-opened.....	26
Total loss for year.....	13
New places opened from July 1, 1904, to July 1, 1905	
Clubs.....	4
Groceries, no bars.....	12
Total.....	16

EXHIBIT "I."

Arrests made during year for violations of liquor license laws and disposition of same by Courts.

Number of arrests.....	209
Dismissed.....	136
Convicted.....	55
Pending.....	7
Amount of fines paid after conviction.....	\$2,190.00
Restaurant Retail Liquor Dealers serving liquor only with meals and paying a license tax of \$5 and \$3 per quarter.	
Total number of licensed places June 30, 1904.....	416
Applications received during the year.....	1,880
Applications refused during the year.....	22
Applications withdrawn during year.....	14
Applications granted during year.....	1,844
Applications pending.....	.....
Total number of licensed places June 30, 1905.....	468
Net gain.....	52

AUCTIONEERS.

Total number licensed places June 30, 1904.....	46
New permits granted.....	12
<hr/>	
Total.....	58
Retired from business.....	12
Refused.....	3
Revoked.....	3
Withdrawn.....	2

INTELLIGENCE OFFICE KEEPERS.

Total number licensed places June 30, 1904.....	37
New places opened during year.....	34
<hr/>	
Total.....	71
Retired from business.....	14
Revoked.....	4
<hr/>	
Total.....	18
Total number of places June 30, 1905.....	53
Net gain.....	15
Applications withdrawn.....	7

PAWNBROKERS.

Total number of places in business June 30, 1904.....	54
New places opened.....	9
<hr/>	
Total.....	63
Retired from business.....	6
Total number of places in business June 30, 1905.....	57
Net gain.....	3
Refused.....	1
Withdrawn.....	1

SECOND HAND DEALERS

Total number of places in business June 30, 1904.....	160
New places opened during year.....	17
<hr/>	
Total.....	177
Total number closed during year.....	9
Total number of places in business June 30, 1905.....	168
Net gain.....	8
Refused.....	4
Withdrawn.....	1

Arrests made for conducting business without a license from July 1, 1904, to July 1, 1905.

Number of arrests.....	94
Dismissed.....	90
Convicted.....	2
Pending.....	2
Amount of fines paid after convictions.....	\$10.00

CHIEF OF POLICE

JUNK GATHERERS.

Applications granted from July 1, 1904, to July 1, 1905.....	215
Applications refused from July 1, 1904, to July 1, 1905.....	20
	<hr/>
Total number paying license July 1, 1905.....	102

PEDDLERS.

Applications received for the year ending June 30, 1904.....	3,212
Applications received for year ending June 30, 1905.....	3,379
Applications withdrawn for year ending June 30, 1905.....	6
	<hr/>
Total.....	3,373
Net increase.....	161
Arrested for peddling without a license.....	229
Dismissed by courts.....	189
Convicted and fined.....	40
	<hr/>
Amount of fines for forfeitures in police courts.....	\$190.50

MOTORMEN.

Applications granted from July 1, 1904, to July 1, 1905.....	170
Applications refused from July 1, 1904, to July 1, 1905.....	10
Permits revoked.....	4
	<hr/>
Total number having permits July 1, 1905.....	166

DRIVERS

Applications granted from July 1, 1904, to July 1, 1905.....	524
Applications refused.....	42
Applications withdrawn.....	6
Permits revoked.....	13
	<hr/>
Total number having permits July 1, 1905.....	511

SOLICITORS.

Total number having permits July 1, 1905.....	22
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LICENSED GUIDES.

Total number having permits July 1, 1905.....	36
---	----

SHOOTING GALLERY KEEPERS.

Total number of places in business July 1, 1905.....	27
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CONCEALED WEAPONS.

Total number of persons licensed to carry concealed deadly weapons from July 1, 1904, to July 1, 1905.....	167
Permits revoked.....	7
Refused.....	19
	<hr/>
Total number having permits July 1, 1905.....	160

REPORT
OF
BOARD OF POLICE RELIEF AND PENSION
FUND COMMISSIONERS
FOR
FISCAL YEAR ENDING JUNE 30, 1905

To the Hon. Eugene Schmitz, Mayor of the City and County of San Francisco:

Dear Sir—The following Board of Police Pension Fund Commissioners was in office during the fiscal year 1904-05, and acting under the provisions of Chapter X of Art. VIII of the Charter of the City and County of San Francisco, approved by the Legislature January 19, 1899.

*J. F. POHEIM.....President
 **ALEX. O'GRADY.....Commissioner
 JNO. A. DRINKHOUSE.....Commissioner
 THOS. REAGAN.....Commissioner
 K. F. CONWAY.....Secretary

*Appointed January 8, 1905, vice J. R. Howell, term expired.

**Appointed January 25, 1905, vice H. W. Hutton, removed.

The following members of the Police Department of the City and County of San Francisco were retired from active duty and pensioned by the Board of Police Relief and Pension Fund Commissioners during the fiscal year 1904-05 under the provisions of Charter X of Article VIII of the Charter.

Name.	Section of Chapter X of Article VIII of the Charter under which retired	Amount	Rank	Date of Retirement.
Patrick J. Tobin	1 and 3	\$184.50	Sergeant	April 5, 1905
Eramsus Hartley	1 and 3	150.00	Police Officer	Aug. 2, 1904
Wm. C. Hanley	1 and 3	150.00	Police Officer	Aug. 2, 1904
Patrick Crosby	1 and 3	150.00	Police Officer	July 11, 1904
James J. McShane	1 and 3	150.00	Police Officer	Oct. 4, 1904
Christopher Arellanes	1 and 3	150.00	Police Officer	Jan. 3, 1905
Benj. F. Sawyer	1 and 3	150.00	Police Officer	April 19, 1905

The following pensioners died during the fiscal year 1904-1905.

Name	Under Section	Amount	Rank	Date of Retirement	Date of Death
Appleton, W. Stone.....	1 and 3	\$222.00	Captain of Police.....	July 31, 1895	October 23, 1904
Cornelius Martin.....	3 Act of 1899	184.50	Sergeant.....	January 3, 1898	October 26, 1904
John D. Dolan.....	3 Act of 1899	172.50	Corporal.....	Sept. 1, 1899	March 28, 1905
Hazen Dearborn.....	1 and 3	150.00	Police Officer.....	July 7, 1903	October 30, 1904

The following person not a member of the Department, was granted a pension during the fiscal year 1904-05:

Lena Anthony, widow of Corporal Abraham Anthony, under Section 4 of Chapter X of Article VIII of the Charter. Amount per month, \$57.50.

RECAPITULATION.

Number of retired officers drawing pensions on July 1, 1904.....	85
Other persons drawing pensions on July 1, 1904.....	8
	—
Total drawing pensions on July 1, 1904.....	93
Number of officers retired during the fiscal year ending June 30, 1905.....	7
Other persons granted pensions during fiscal year ending June 30, 1905.....	1
	—
Total pensioned during fiscal year ending June 30, 1905.....	8
Deceased during fiscal year ending June 30, 1905.....	4
Restored to active duty during fiscal year ending June 30, 1905.....	0
	—
Total removed from pension roll during fiscal year ending June 30, 1905..	4
Total drawing pensions on July 1, 1905.....	97

FINANCIAL STATEMENT FOR THE FISCAL YEAR ENDING JUNE 30, 1905.

By amount paid in pensions during fiscal year 1904-05.....	\$62,854.78
By amounts paid for other purposes:	
K. F. Conway (secretary).....	\$600.00
Dr. Geo. M. Ferrill (examining applicants for pensions).....	40.00
Dr. J. A. Hughes (examining applicants for pensions).....	40.00
Dr. H. W. Stirenalt (examining applicants for pensions).....	10.00
Dr. G. W. Goodale (examining applicants for pensions).....	10.00
	700.00
	—
By total paid from Pension Fund.....	\$63,554.78

PENSION ROLL JUNE 30, 1905

Name.	Section Act of 1899	Pension Per Month	Rank.	Date of Retirement.
Birch, William.....	4 and 5	\$150.00	Police Officer.....	Sept. 30, 1899
Flannery, Michael.....	4 and 5	150.00	Police Officer.....	April 8, 1890
Duff, Thomas.....	4 and 5	150.00	Police Officer.....	April 13, 1890
Curtis, Geo. W.....	3	150.00	Police Officer.....	April 6, 1891
McMahon, Francis C.....	4 and 5	150.00	Police Officer.....	July 6, 1893
Bradrick, Isaac.....	3	150.00	Police Officer.....	Feb. 26, 1894
Dickinson, Chas. H.....	3	150.00	Police Officer.....	Sept. 1, 1894
Gillespie, Thomas.....	3	150.00	Police Officer.....	Sept. 30, 1894
Horrigan, Eugene.....	4 and 5	150.00	Police Officer.....	July 4, 1897
McGrath, John A.....	4 and 5	150.00	Police Officer.....	July 1, 1897
Loftus, Michael.....	3	150.00	Police Officer.....	Jan. 3, 1898
McNulty, Thomas.....	4 and 5	150.00	Police Officer.....	Jan. 3, 1898
Wells, Chas. C.....	4 and 5	150.00	Police Officer.....	April 4, 1898
Murphy, Hamlin H.....	3	150.00	Police Officer.....	July 5, 1898
Gaynor, William P.....	3	150.00	Police Officer.....	April 3, 1899
Birmingham, Jno.....	3	150.00	Police Officer.....	April 3, 1899
Courneen, Dennis.....	3	150.00	Police Officer.....	Aug. 1, 1899
Wilson, Matthew.....	3	150.00	Police Officer.....	Oct. 2, 1899
Libby, Daniel.....	3	150.00	Police Officer.....	Oct. 5, 1899
Fleming, Patrick.....	4 and 5	150.00	Police Officer.....	Oct. 5, 1899
Hayden, Dennis.....	4 and 5	150.00	Police Officer.....	Oct. 5, 1899
Manning, John.....	3	150.00	Police Officer.....	Nov. 2, 1899
Duggan, Thos. J.....	3	150.00	Police Officer.....	Dec. 6, 1899
Williams, Amos M.....	4 and 5	150.00	Police Officer.....	Dec. 6, 1899
Menihan, Patrick.....	4 and 5	150.00	Police Officer.....	Dec. 6, 1899
Michaels, Amelia.....	6	100.00	Widow of Michael Michaels.	
Burke, Delia.....	6	138.00	Widow of William Burke.	
Heaphey, Nellie.....	6	100.00	Widow of Michael Heaphey.	
Schimpf, Clara.....	*4	150.00	Widow of August H. Schimpf.	
Conway, Maria.....	*4	150.00	Widow of Thomas Conway.	
Mogan, Violet.....	*4	150.00	Widow of Joseph Mogan.	
Daley, Catherine.....	*4	150.00	Widow of D. J. Daley.	
Anthony, Lena.....	*4	172.50	Widow of Abraham Anthony.	
Norton, Sarah.....	*4	150.00	Widow of Jas. Norton.	
Doran, Joseph.....	4 and 5	150.00	Police Officer.....	Dec. 3, 1899
Benjamin, Levi M.....	4 and 5	150.00	Police Officer.....	Dec. 31, 1899
Byrne, Thomas.....	4 and 5	150.00	Police Officer.....	Dec. 31, 1899
Behan, Maurice.....	4 and 5	150.00	Police Officer.....	Dec. 31, 1899
Connolly, John.....	4 and 5	150.00	Police Officer.....	Dec. 31, 1899
Dillon, Thomas, H.....	3	150.00	Police Officer.....	Dec. 31, 1899
Coleman, Peter.....	3	150.00	Police Officer.....	Dec. 31, 1899
Conly, John J.....	4 and 5	150.00	Police Officer.....	Jan. 5, 1900
Tryon, Thos. C.....	4 and 5	150.00	Police Officer.....	Jan. 6, 1900
Whittle, Robert.....	1 and 2*	150.00	Police Officer.....	July 2, 1900
Morton, John M.....	1 and 3*	150.00	Police Officer.....	April 16, 1900
Bode, Ernest F.....	1 and 3*	150.00	Police Officer.....	July 1, 1901
O'Connor, John M.....	1 and 3*	150.00	Police Officer.....	July 1, 1901
O'Grady, Timothy.....	1 and 3*	150.00	Police Officer.....	July 1, 1901
Hall, Joseph C.....	1 and 3*	150.00	Police Officer.....	July 1, 1901
Marston, Jotham P.....	1 and 3*	150.00	Police Officer.....	July 1, 1901
Callinan, Murty.....	1 and 3*	150.00	Police Officer.....	July 7, 1902
Barnes, Chas. M.....	1 and 3*	150.00	Police Officer.....	July 21, 1902
Gillen, Peter A.....	1 and 3*	150.00	Police Officer.....	Nov. 18, 1902
Perry, Patrick.....	1 and 3*	150.00	Police Officer.....	Dec. 3, 1902
Watterman, Chas. H.....	1 and 3*	150.00	Police Officer.....	Oct. 6, 1902
Merrick, Orlando B.....	1 and 3*	150.00	Police Officer.....	April 6, 1903
Aitken, James.....	1 and 3*	150.00	Police Officer.....	April 6, 1903
Farley, Elliott.....	1 and 3*	150.00	Police Officer.....	April 6, 1903
Richter, Peter.....	1 and 3*	150.00	Police Officer.....	Oct. 6, 1903
Fleming, John.....	1 and 3*	150.00	Police Officer.....	Jan. 11, 1904
De Blois, Geo. C.....	1 and 3*	150.00	Police Officer.....	Jan. 11, 1904
O'Connell, Geo. P.....	1 and 3*	150.00	Police Officer.....	April 4, 1904
Samuels, William.....	1 and 3*	150.00	Police Officer.....	April 19, 1904
Falls, Richard J.....	1 and 3*	150.00	Police Officer.....	April 4, 1904
Hartley, Erasmus.....	1 and 3*	150.00	Police Officer.....	Aug. 2, 1904
Hanly, William C.....	1 and 3*	150.00	Police Officer.....	Aug. 2, 1904
Crosby, Patrick.....	1 and 3*	150.00	Police Officer.....	July 11, 1904

POLICE RELIEF AND PENSION FUND

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PENSION ROLL JUNE 30, 1905.

Name.	Section Act of 1899	Pension Per Month	Rank.	Date of Retirement.
McShane, Jas. J.....	1 and 3*	150.00	Police Officer.....	Oct. 4, 1904
Arrellanes, Christopher..	1 and 3*	150.00	Police Officer.....	Jan. 3, 1905
Sawyer, Benj. F.....	1 and 3*	150.00	Police Officer.....	April 19, 1905
Crowley, Patrick.....	3	\$497.00	Chief of Police.....	April 7, 1897
Gillen, James W.....	1 and 3*	297.00	Capt. of Police.....	Oct. 7, 1901
Dunleavy, Andrew J....	1 and 2*	297.00	Capt. of Police.....	April 4, 1905
Dillon, Thomas.....	1 and 3*	222.00	Detective Sergeant..	July 6, 1903
Moran, James F.....	4 and 5	222.00	Property Clerk.....	Dec. 31, 1899
Bennett, Geo. W.....	4 and 5	207.00	Lieutenant.....	April 4, 1898
Hensley, Wm. D.....	4 and 5	184.50	Sergeant.....	April 8, 1890
Sharp, Abraham.....	3	184.50	Sergeant.....	Aug. 4, 1893
Bethell, Thomas.....	4 and 5	184.50	Sergeant.....	Dec. 31, 1899
Flanders, Thomas.....	4 and 5	184.50	Sergeant.....	Dec. 31, 1899
Harman, Geo. W.....	3	184.50	Sergeant.....	Jan. 3, 1895
Houghtaling, A. J.....	3	184.50	Sergeant.....	Jan. 3, 1895
Cohrn, Edward.....	3	184.50	Sergeant.....	Dec. 31, 1895
Monaghan, Hugh.....	4 and 5	184.50	Sergeant.....	Dec. 31, 1895
Avan, John.....	3	184.50	Sergeant.....	Nov. 2, 1898
Shields, John W.....	1 and 2*	184.50	Sergeant.....	April 16, 1900
Lindheimer, Mier.....	1 and 2*	184.50	Sergeant.....	April 16, 1900
Murphy, Michael.....	3	184.50	Sergeant.....	Jan. 3, 1898
Wright, Cassius P.....	1 and 3*	184.50	Sergeant.....	Jan. 5, 1903
Griffiths, Griffith.....	1 and 3*	184.50	Sergeant.....	July 6, 1903
Harper, Edgar.....	1 and 3*	184.50	Sergeant.....	April 4, 1904
Tobin, Patrick J.....	1 and 3*	174.50	Sergeant.....	April 5, 1905
Bowlen, Thos. H.....	4 and 5	172.50	Corporal.....	July 7, 1903
Gardinier, Henry.....	4 and 5	150.00	Police Officer.....	Sept. 30, 1899
McDonough, Patrick....	4 and 5	150.00	Police Officer.....	Sept. 30, 1899
Cochran, James.....	4 and 5	150.00	Police Officer.....	Sept. 30, 1899
Tyner, William.....	4 and 5	150.00	Police Officer.....	Sept. 30, 1899

*Of Charter.

Fire Commissioners' Report

Headquarters Fire Department,
Office Board of Fire Commissioners, City Hall,
San Francisco, July 1, 1905.

To the Hon. E. E. Schmitz,

Mayor of the City and County of San Francisco:

Dear Sir—In compliance with Section 9, of Article XVI, of the Charter of the City and County of San Francisco, the Board of Fire Commissioners herewith present and submit its annual report for the fiscal year ending June 30, 1905, containing a statement of the expenditures of the Department, and also the report of the Chief Engineer, showing the condition of the Department, etc.

ORGANIZATION.

The Department as now constituted consists of a Board of Fire Commissioners of four members, a secretary, a chief engineer, one first assistant chief engineer, one second assistant chief engineer, ten battalion chiefs, thirty-eight engine companies, ten truck companies, seven chemical engine companies, one water tower company, two monitor batteries, five relief engine companies and employees of the corporation yards and department stables, numbering in all 653 men, of which 570 constitute the uniform force of the department.

BOARD OF FIRE COMMISSIONERS.

THOMAS F. FINN, president.....	Term expires January 8, 1908
HENRY M. WREDEN.....	Term expires January 8, 1909
JOHN J. BARRETT.....	Term expires January 8, 1907
JOHN S. BARRY.....	Term expires January 8, 1906

JOHN W. McCARTHY, Secretary of Board.

DETAILS OF ORGANIZATION.

(Salaries fixed by Charter.)

No.	Position	Salary Per Annum
4	Commissioners, each.....	\$1,200.00
1	Secretary Board of Fire Commissioners.....	2,400.00
UNIFORMED FORCE.		
1	Chief Engineer.....	4,000.00
1	First Assistant Chief Engineer.....	3,000.00
1	Second Assistant Chief Engineer.....	2,400.00
10	Battalion Chiefs, each.....	2,100.00
38	Captains of Engine Companies, each.....	1,440.00
38	Lieutenants of Engine Companies, each.....	1,200.00
38	Engineers of Engine Companies, each.....	1,350.00
38	Drivers of Engine Companies, each.....	1,200.00
38	Stokers of Engine Companies, each.....	1,200.00
190	Hosemen of Engine Companies, each.....	1,200.00
10	Captains of Hook and Ladder Truck Companies, each.....	1,440.00
10	Lieutenants of Hook and Ladder Truck Companies, each.....	1,200.00
10	Tillermen of Hook and Ladder Truck Companies, each.....	1,200.00
80	Truckmen of Hook and Ladder Truck Companies, each.....	1,200.00
7	Captain of Chemical Engine Companies, each.....	1,440.00
7	Lieutenants of Chemical Engine Companies, each.....	1,200.00
7	Drivers of Chemical Engine Companies, each.....	1,200.00
7	Hosemen of Chemical Engine Companies, each.....	1,200.00
1	Captain of Water Tower Company.....	1,440.00
1	Driver of Water Tower Company.....	1,200.00
1	Hoseman of Water Tower Company.....	1,200.00
2	Drivers of Monitor Batteries, each.....	1,200.00
5	Captains of Relief Engine Companies, each.....	1,440.00
19	Hosemen of Relief Engine Companies, each.....	1,200.00
CORPORATION YARD.		
1	Superintendent of Engines.....	1,800.00
1	Clerk and Commissary.....	1,500.00
3	Hydrantmen, each.....	1,080.00
1	Draymen.....	900.00
1	Watchmen.....	900.00
DEPARTMENT STABLES.		
1	Superintendent of Horses.....	1,200.00
3	Hostlers, each.....	720.00

Under the provisions of the Charter, drivers, stokers, tillermen, hosemen and truckmen receive \$960 per annum for the first year's service, \$1,080 for the second year, and \$1,200 for the third year and thereafter.

APPROPRIATION AND EXPENDITURES.

Total Appropriation			\$856,630 00
EXPENDITURES.			
Salaries:—			
Uniform force.....	\$684,259.01		
Office.....	7,200.00		
Corporation Yard.....	29,049.07		
Paint Shop.....	4,465.91		
Harness Shop.....	4,140.90		
Department Stables.....	7,995.00		
Horseshoeing.....	300.00		
Hydrantmen.....	3,240.00		
Substitutes for Injured members.....	7,071.20		
		\$747,721.09	
Material and Supplies:—			
Repairs to apparatus.....		\$ 7,500.51	
Corporation yard.....	6,168.68		
Paint Shop.....	820.03		
Power.....	511.80		
Department stables.....	663.66		
Harness Department.....	1,571.45		
Forage.....	36,041.12		
Furniture.....	1,330.02		
Fuel.....	9,785.12		
Hose.....	4,617.50		
Apparatus.....	3,150.00		
Horses.....	11,019.50		
Rent.....	1,210.00		
Horseshoeing.....	6,046.30		
Hydrants and setting.....	12,393.17		
Supplies.....	5,391.59		
Garbage removal.....	3,648.00		
Office.....	69.58		
		\$104,437.82	
Total expenditures.....			\$852,158.91
Surplus remaining.....			\$ 4,471.09

FIRMS, PERSONS AND CORPORATIONS DOING BUSINESS WITH THE
FIRE DEPARTMENT DURING THE FISCAL YEAR 1904 AND 1905.

Character of Business and Amounts.

Alsop, Thos. boiler compound.	\$ 9.00
American Transfer Co., horse.	250.00
Ames & Harris, needles and Wax.	6.19
Bauer Lamp Co., lamp repairing.	500.05
Bay Shore Water Co., hydrant setting.	240.00
Bennet Bros., hardware.	17.22
Bennett, E. W. & Co., metal polish.	180.00
Bernhard Mattress Co., new beds.	502.70
Betts Spring Co., spring repairing.	439.75
Blyth & Trott, hardwood lumber.	47.32
Boesch Lamp Co.	27.50
Boston Woven Hose Co., hose.	2,406.00
Bowers Rubber Co., hose.	387.81
Broderick & Fagen, horse hire.	15.00
Brown & Brandon, horses.	1,872.50
Brown, Chas. & Co., hardware.	86.57
Brown & Power, supplies.	15.96
Braun, F. W. & Co., acid.	28.65
Chapman, R. S., suction hose.	151.80
Coffin, Alonzo, patterns.	82.94
Cowell Lime Co., lime.	37.50
Crane Co., brass goods.	579.34
Dallam, F. B. supplies.	167.47
Diamond Rubber Co., tiers.	26.00
Dietzjen, E. & Co., blue prints.	8.97
Doyle, J. J., horses.	2,972.00
Dunham, Carrigan, Hayden Co., hardware.	2,050.94
Eckstrom Lumber Co., hard-wood lumber.	28.16
Edwards, Wm., forgings.	235.60
Electric, S. B. Co., storage batteries.	23.46
Erlanger, Simon, red and white oats.	14,614.38
Evers, P., horse.	200.00
Fairbanks & Co., repairing scales.	68.35
Fautz, Henry, repairing scales.	24.00
Ferry Sheet Metal Works, drip pans.	5.50
Finn Metal Works, solder.	8.58
Fredericks, Joseph, furniture.	535.30
Fuller, W. P. & Co., paints and oils.	448.76
Garret, W. T. & Co., brass castings.	106.14
Garlock Packing Co., packing.	27.99
Gay, Chas. J., hydrant damage.	15.00
Graney, E. M., horseshoeing.	6,010.50
Greenberg, M. Sons, hydrants.	1,858.10
Goodyear Rubber Co., hose.	2,036.17
Gorham Rubber Co., cushions.	24.00
Hartford Rubber Works Co., tires.	11.60
Herrman, Albert, rent for July 4th.	10.00
Holbrook, Merrill & Stetson, fittings.	227.13
Howard, E. A. & Co., hardwood lumber.	144.50
Jacobs, Jas. A., fuel oil.	2,026.87
Johnson, J. C., leather findings.	48.05

Joy, Edwin W., drugs.....	1.40
Keystone Boiler Works, heaters.....	420.00
Kingwell, V., brass goods.....	365.55
La Faille, F. H. & Co., paints and oils.....	32.92
Langley & Brooks, smoke stack paint.....	5.00
Levenson & Co., supplies.....	292.95
Lindauer, Gus. horses.....	1,115.00
Lloyd, Scoville Co., iron.....	35.19
Lowe, O. A., horses.....	700.00
Mack & Co., drugs and supplies.....	852.61
Marks, H. & Co., horses.....	1,910.00
Marks, H. M. & horse.....	250.00
Merrill, F., Estate of, rent engines No. 37.....	600.00
Middleton, Geo. P., automobiles, 3.....	3,341.30
Miller, W. S., coal oil.....	874.95
Mitchell, Thos. F., rent truck No. 9.....	600.00
Montague & Co., grates.....	3.75
Morton, Thos., coal and wood.....	8,000.80
Moore, Geo. P., automobile sundries.....	115.35
Murphy, J. W., rent stables.....	314.00
McDearbon, Thos. Co., pipe covering.....	121.44
Nagle, H. M., house brooms.....	66.00
Nason, R. N. Co., paints and oils.....	96.13
National Pharmacy Co., drugs.....	29.20
Nathan, G., horse.....	250.00
Nathan, J., horse.....	250.00
Nathan, N., horses.....	750.00
Nathan, S., horses.....	500.00
Nathan, Dohrmann Co., wicks, chimneys, etc.....	83.14
Neville, W. A., harness sundries.....	2.00
Ostrander, D., Bending hickory.....	3.00
Pacific Coast Rubber Co., tires.....	214.09
Pacific Hardware & Steel Co., hardware.....	136.60
Pacific Telephone & Telegraph Co., connecting telephone.....	1.75
Pasquale, B. & Co., badges and gloves.....	45.00
Philpott, C. H. & Co., hardware.....	316.08
Porter Metal Works, galvanizing chain.....	3.48
Power & Pike Co., oil tanks.....	20.00
Redington & Co., drugs.....	335.60
Revere Rubber Co., supplies.....	11.10
Risdon Iron & L. Works, hydrants, castings, etc.....	4,008.75
Robinson Chemical Co., stable supplies.....	18.00
Roebing, J. A. Sons, wire rope.....	18.00
San Francisco Gas & Electric Co., power.....	431.60
San Francisco Candle Co., candles.....	21.00
Schalitz & Morris, copper retort.....	7.50
Scett & Magner, hay and bran.....	15,352.05
Sloane, W. J. & Co., furniture.....	211.62
Snook, Jas. A., emery cloth and soap.....	47.25
Somers & Co., straw and bran.....	6,074.69
Spring, V. W. Co., hydrant setting.....	5,905.00
Standard Wall Paper Co., wall paper.....	80.40
Steiger & Kerr, castings.....	371.33
Strauss, Levi & Co., gloves.....	24.00
Suacci, A., garbage removal.....	3,648.00
Taylor & Spotswoods, tires.....	459.53
Telephone Hygienic Co., telephone supplies.....	18.00

FIRE COMMISSIONERS

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Union Iron Works, steel castings.....	37.80
United Railroads Co., power.....	80.20
United Iron Works, castings.....	57.50
Valvoline Oil Co., engine oil.....	46.77
Vanderslice & Co., badges.....	3.75
Van Drake Metal Works, rawhide, phosphor, bronze.....	10.00
Waterhouse & Lester, spokes.....	513.40
Western Paint Co., paints and oils.....	184.78
West Coast Rubber Co., tires.....	83.33
Whittier Coburn Co., paints and oils.....	84.81
Winchester, J. P., harness leather.....	1,376.53
Wirth & Jachens, badges.....	51.25
Yates & Co., gasoline.....	298.28
	<hr/>
	\$104,437.82

Chief Engineer's Report

SAN FRANCISCO FIRE DEPARTMENT

Headquarters Fire Department, City Hall,
San Francisco, July 1, 1905.

To the Honorable, The Board of Fire Commissioners, of the City and County of San Francisco:—

Gentlemen: I respectfully beg leave to present to you my annual report of the Department, together with such recommendations as, in my judgment, I deem necessary and proper to promote the efficiency thereof.

FIRES.

During the year the Department responded to 827 alarms of fire received from street and automatic boxes, of which 787 were first alarms. 33 second alarms and 7 third alarms. The Department also responded to 452 silent alarms during the year. received verbally and by telephone, making a total of 1,279 alarms of fire responded to.

LOSSES BY FIRE, INSURANCE AND AMOUNT PAID.

Month	Total Insurance	Total Losses	Insurance Paid
1904—July.....	\$1,272,475.00	\$160,565.27	\$149,173.51
August.....	271,040.00	20,856.06	13,134.10
September.....	789,189.00	118,380.49	100,982.02
October.....	1,184,746.60	81,333.60	62,884.60
November.....	327,200.00	35,406.92	31,984.92
December.....	260,266.00	77,082.55	70,080.17
1905—January.....	597,310.00	85,365.53	75,928.53
February.....	418,547.50	16,595.44	14,091.44
March.....	993,850.00	72,179.04	55,706.92
April.....	860,598.50	42,460.36	40,757.36
May.....	651,619.35	141,704.60	105,443.72
June.....	469,650.00	124,733.96	122,762.66
Total.....	\$8,096,491.95	\$976,663.82	\$842,929.95

NUMBER OF FEET OF WATER MAINS LAID IN CITY FROM JULY 1, 1904
TO JUNE 30, 1905.

Size of Mains.	No. of Feet Laid.
4-inch.....	14,925
6-inch.....	150
8-inch.....	28,500
12-inch.....	11,560
16-inch.....	3,850
24-inch.....	2,400
Total.....	61,385

HYDRANTS.

New hydrants set during the year.....	122
Hydrants reset.....	65
Hydrants removed.....	13

NUMBER OF HYDRANTS IN SERVICE.

Spring Valley Water Company.....	4,175
Olympic Salt Water Company.....	28
Fulton Iron Works Pumping System.....	4
Bay Shore Water Company.....	6
Total.....	4,213

STATEMENT OF KIND OF APPARATUS, CLASS, NUMBER OF MEN
EACH COMPANY FOR THE FISCAL

Company and kind of apparatus	Class of Apparatus	Number of Men in Company	Number of Horses
Engine Co. No. 1—American	First	10	5
Engine Co. No. 2—Clapp and Jones	Second	10	5
Engine Co. No. 3—Clapp and Jones	Second	10	5
Engine Co. No. 4—Metropolitan	First	10	5
Engine Co. No. 5—Clapp and Jones	First	10	5
Engine Co. No. 6—La France	First	10	5
Engine Co. No. 7—La France	Third	10	5
Engine Co. No. 8—Metropolitan	Third	10	5
Engine Co. No. 9—Clapp and Jones	First	10	4
Engine Co. No. 10—La France	First	10	5
Engine Co. No. 11—Amoskeag	Second	10	5
Engine Co. No. 12—Metropolitan	First	10	5
Engine Co. No. 13—La France	Third	10	5
Engine Co. No. 14—Metropolitan	Third	10	5
Engine Co. No. 15—La France	Third	10	5
Engine Co. No. 16—Amoskeag	Second	10	5
Engine Co. No. 17—American	First	10	5
Engine Co. No. 18—La France	Fourth	10	5
Engine Co. No. 19—Clapp and Jones	Second	10	5
Engine Co. No. 20—Clapp and Jones	Third	10	5
Engine Co. No. 21—Clapp and Jones	Third	10	5
Engine Co. No. 22—La France	Fourth	10	5
Engine Co. No. 23—La France	Third	10	5
Engine Co. No. 24—La France	Fourth	10	5
Engine Co. No. 25—Amoskeag	Second	10	5
Engine Co. No. 26—La France	Fourth	10	5
Engine Co. No. 27—La France	Third	10	5
Engine Co. No. 28—La France	Third	10	5
Engine Co. No. 29—Metropolitan	Second	10	5
Engine Co. No. 30—La France	Fourth	10	5
Engine Co. No. 31—Clapp and Jones	First	10	5
Engine Co. No. 32—La France	Fourth	10	5
Engine Co. No. 33—La France	Fourth	10	5
Engine Co. No. 34—Metropolitan	Second	10	5
Engine Co. No. 35—La France	First	10	5
Engine Co. No. 36—Amoskeag	Third	10	3
Engine Co. No. 37—Amoskeag	Second	10	5
Engine Co. No. 38—Clapp and Jones	Second	10	5
Truck Co. No. 1—Kenney Trussed Truck	First	12	3
Truck Co. No. 2—Rumsey, Trussed	First	12	3
Truck Co. No. 3—J. F. Hopper, Trussed	First	12	3
Truck Co. No. 4—Rumsey, Trussed	First	12	3
Truck Co. No. 5—Straight Frame	Third	12	3
Truck Co. No. 6—Straight Frame	Third	12	3
Truck Co. No. 7—Straight Frame	Second	12	3
Truck Co. No. 8—J. F. Hopper, Trussed	First	12	3
Truck Co. No. 9—Straight Frame	Second	12	3
Truck Co. No. 10—Kenney Trussed	First	12	3
Chemical Co. No. 1—Champion Double, 80-gallon	First	4	2
Chemical Co. No. 2—Champion Double, 60-gallon	First	4	2
Chemical Co. No. 3—Champion Double, 80-gallon	First	4	2
Chemical Co. No. 4—Champion Double, 60-gallon	First	4	2
Chemical Co. No. 5—Champion Double, 60-gallon	First	4	2
Chemical Co. No. 6—Champion Double, 60-gallon	First	4	2
Chemical Co. No. 7—Champion Double, 100-gallon	First	4	2
Water Tower No. 1—Gorter Tower	First	3	3
Monitor Battery No. 1—Gorter Battery	First	1	1
Monitor Battery No. 2—Gorter Battery	First	1	1

AND HORSES, ALARMS RESPONDED TO AND DUTY PERFORMED BY YEAR ENDING JUNE 30, 1905.

Kind	Number of Feet and Sizes			No. of Bell Alarms Re- sponded to	No. of Fires Performed Duty at	No. of Still Alarms	Time Worked	
							Hours	Minutes
HOSE.								
Cotton	500 ft. 3 in.,	900 ft. 2 in.,	250 ft. 1 1/2 in.	99	10	21	59	30
Cotton		1,400 ft. 2 in.,	250 ft. 1 1/2 in.	186	12	42	56	20
Cotton	500 ft. 3 in.,	900 ft. 2 in.,	250 ft. 1 in.	77	14	20	21	20
Cotton	400 ft. 3 in.,	1,000 ft. 2 in.,	250 ft. 1 in.	179	12	50	64	25
Cotton	400 ft. 3 in.,	1,000 ft. 2 in.	250 ft. 1 in.	85	1	24	40	10
Cotton	400 ft. 3 in.,	1,000 ft. 2 in.,	250 ft. 1 in.	149	35	53	79	15
Cotton	400 ft. 3 in.,	1,000 ft. 2 in.,	250 ft. 1 in.	75	7	16	22	30
Cotton	400 ft. 3 in.,	1,100 ft. 2 in.,	250 ft. 1 in.	57	14	14	21	15
Cotton	400 ft. 3 in.,	1,000 ft. 2 in.,	250 ft. 1 in.	82	5	30	54	15
Cotton	500 ft. 3 in.,	900 ft. 2 in.,	250 ft. 1 1/2 in.	139	11	47	77	35
Cotton	600 ft. 3 in.,	1,000 ft. 2 in.,	250 ft. 1 1/2 in.	16	4	9	7	35
Cotton	400 ft. 3 in.,	1,000 ft. 2 in.,	250 ft. 1 1/2 in.	91	6	26	63	32
Cotton		1,500 ft. 2 in.,	250 ft. 1 1/2 in.	59	4	25	25	...
Cotton	500 ft. 3 in.,	900 ft. 2 in.,	250 ft. 1 1/2 in.	70	7	17	29	45
Cotton		1,500 ft. 2 in.,	250 ft. 1 1/2 in.	48	18	22	21	15
Cotton		1,600 ft. 2 in.,	250 ft. 1 in.	20	2	9	19	...
Cotton	400 ft. 3 in.,	1,000 ft. 2 in.,	250 ft. 1 in.	164	22	57	75	30
Cotton	400 ft. 3 in.,	1,000 ft. 2 in.,	250 ft. 1 in.	53	3	24	20	25
Cotton	500 ft. 3 in.,	900 ft. 2 in.,	250 ft. 1 in.	165	19	42	58	20
Cotton		1,600 ft. 2 in.,	250 ft. 1 in.	21	10	6	10	50
Cotton		1,400 ft. 2 in.,	250 ft. 1 1/2 in.	48	22	10	38	45
Cotton		1,400 ft. 2 in.,	250 ft. 1 in.	8	2	4	5	...
Cotton		1,700 ft. 2 in.,	250 ft. 1 1/2 in.	43	14	24	25	5
Cotton		1,600 ft. 2 in.,	250 ft. 1 1/2 in.	18	...	13	23	...
Cotton		1,400 ft. 2 in.,	250 ft. 1 1/2 in.	69	3	27	21	10
Cotton		1,500 ft. 2 in.,	250 ft. 1 1/2 in.	23	19	8	13	55
Cotton	500 ft. 3 in.,	900 ft. 2 in.,	250 ft. 1 1/2 in.	60	11	19	21	35
Cotton	500 ft. 3 in.,	900 ft. 2 in.,	250 ft. 1 1/2 in.	47	14	24	27	30
Cotton	500 ft. 3 in.,	900 ft. 2 in.,	250 ft. 1 1/2 in.	93	6	27	33	15
Cotton	400 ft. 3 in.,	1,200 ft. 2 in.,	250 ft. 1 1/2 in.	29	12	20	13	20
Cotton	500 ft. 3 in.,	900 ft. 2 in.,	250 ft. 1 1/2 in.	44	3	12	21	10
Cotton	600 ft. 3 in.,	1,000 ft. 2 in.,	250 ft. 1 1/2 in.	28	3	16	20	...
Cotton		1,800 ft. 2 in.,	300 ft. 1 1/2 in.	5	5	8	9	30
Cotton	450 ft. 3 in.,	950 ft. 2 in.,	250 ft. 1 1/2 in.	119	10	25	40	35
Cotton	500 ft. 3 in.,	900 ft. 2 in.,	250 ft. 1 1/2 in.	91	4	23	54	15
Cotton		3,000 ft. 2 in.,	200 ft. 1 1/2 in.	10	3	1	4	15
Cotton	500 ft. 3 in.,	900 ft. 2 in.,	250 ft. 1 1/2 in.	38	3	10	8	30
Cotton	500 ft. 3 in.,	1,300 ft. 2 in.,	250 ft. 1 1/2 in.	89	...	23	27	...
				201	19	96	118	10
				136	24	87	116	6
				179	17	107	97	20
				72	21	28	64	8
				65	24	44	60	10
				54	20	38	69	15
				52	5	43	32	15
				107	5	64	108	35
				88	5	62	66	45
				96	6	43	51	15
Rubber	250 ft. 1 in.,			116	41	90	77	45
Rubber	250 ft. 1 in.,			39	22	24	36	50
Rubber	250 ft. 1 in.,			60	25	61	57	18
Rubber	250 ft. 1 in.,			151	25	103	102	20
Rubber	250 ft. 1 in.,			108	28	70	60	40
Rubber	250 ft. 1 in.,			52	22	38	49	20
Rubber	250 ft. 1 in.,			54	9	42	29	40
				119	...	6	11	10
				73	...	3	8	30
				145	...	1	1	15

APPARATUS.

The following apparatus is in good condition and in regular service in the Department: Thirty-eight steam fire engines, 38 hose wagons, 10 hook and ladder trucks, 7 chemical engines, 1 water tower, 2 monitor batteries, 10 officers buggies, 3 automobiles, 50 hand chemical fire extinguishers and 67,000 feet of cotton hose.

In addition to the above, there is also the following apparatus and vehicles for relief emergency and other purposes: Fourteen steam fire engines, 16 hose wagons, two water towers, 2 monitor batteries, 5 hook and ladder trucks, 1 hose carriage, 14 officers' buggies, 6 hydrant carts, 10 delivery wagons, 2 supply wagons, 1 crane-neck truck, 1 oil tank wagon, 1 horse ambulance, 1 hay wagon and 1 automobile (electric).

NEW APPARATUS.

Owing to the limited appropriation, no new apparatus was acquired by the Department during the past year, with the exception of three automobiles for officers use in responding to alarms of fire.

HOSE.

The following new hose was also purchased during the year:

- 2,000 feet of 3-inch cotton hose.
- 4,000 feet of 2½-inch cotton hose.
- 2,000 feet of 1-inch rubber chemical hose.
- 1,200 feet of 1-inch rubber hose

HORSES.

There are at present in the Department 326 horses and 3 colts, including those kept for relief and other purposes, and with the exception of about 15 that are under treatment at the Department Hospital, are engaged in service. A considerable number of these horses, by reason of age and long service, have become entirely unfitted for efficient service, and should be replaced by more active animals.

During the year 49 horses were acquired, including two received from the United Railroads in place of the two Department horses killed by a live electric wire and two colts that were put into service, and 25 horses were condemned as unfit for further service; of which number 15 were sold at public auction, 3 transferred to the Branch Jail, 2 to the County Hospital and 5 to the Alms House.

Ten horses and one colt died during the year, of which one was killed by an accident, 3 were shot on account of broken legs, and 7 died from disease, and horses were treated 590 times by the Veterinary surgeon for different ailments, either at the hospital or engine houses of the Department.

HOUSES.

The new house built for Engine Co. 36 on Twenty-sixth avenue is approaching completion, and will admit of that company being moved to a much more settled locality, its place at Sutro Heights being taken by a chemical company, for which provision has been made in the new budget.

Provision has also been made in the budget for an engine house at San Jose and Ocean avenues, which I have been recommending for the past four years, and the need of which is most urgent; and also for a truck house on Presidio Heights, which is also very important on account of the large number of hospitals and asylums in that locality and the remoteness of the existing Truck Companies.

DIED.

William King, Hoseman Engine Co. 28, died July 4, 1904, of natural causes.

John Bodkin, Truckman Truck Co. 3, died August 28, 1904, of appendicitis.

E. F. Dougherty, Engineer Engine Co. 37, died September 7, 1904, of Bright's disease.

T. J. Canavan, Engineer Engine Co. 3, died March 10, 1905, of Bright's disease.

P. H. Fleming, Clerk and Commissary, Corporation yard, died May 11, 1905, of lung trouble.

Timothy Hallinan, Hoseman Engine Co. 25, died May 18, 1905, of consumption.

Charles Bryan, Stoker, Engine Co. 19, died May 26, 1905, of natural causes.

APPOINTMENTS, RESIGNATIONS AND DISMISSALS.

During the year 54 appointments to the Department were made from the Civil Service eligible list. There were also 20 resignations and 11 dismissals from the Department.

RECOMMENDATIONS.

The rapid growth of the Ashbury Heights District calls for the establishment of an engine company in that locality. I have hesitated in making this recommendation heretofore for the reason that the condition of the streets in that particular locality rendered it impossible for a company to perform the service which would be required of it, and also because the greater need of other localities had not been met. The opening of Piedmont street, from Ashbury street to Masonic avenue, for which provision has been made in the budget of the present fiscal year, overcomes the first of these objections, and the provisions made for the establishing of companies at San Jose and Ocean avenues and on Presidio Heights removes the other. I would therefore recommend the purchase of a lot at or near the corner of Ashbury and Seventeenth streets, and that a brick engine house be erected thereon for the accommodation of a new engine company.

The constantly increasing growth of Castro Heights, and the difficulty of access thereto by existing fire apparatus likewise demand consideration. As Engine Company No. 24 is located in a hollow and occupies an old shack that must soon be replaced in any event, I would therefore recommend that a lot be purchased in the vicinity of Castro and Hill streets and that a brick engine house be erected thereon for the accommodation of Engine Co. No. 24.

New houses are also badly needed for Engine Companies 5 and 9 and Truck Co. 5. The present structures occupied by these companies have stood for nearly forty years and are in a dilapidated condition, and the two latter houses are unsanitary, the sleeping quarters for the men being merely galleries built off the apparatus floor.

The continual extension of dockage facilities on the water front, occasioned by our increasing commerce with the world, renders the need of a fire boat that shall be such in fact as well as in name, greater than ever. The boats controlled by the State Board of Harbor Commissioners are built primarily for towing purposes, and have accordingly a greater draught than a fire boat should have, while the capacity of their pumps is much less than it should be. I would therefore recommend that a light draught, high power fire boat be provided at the earliest opportunity, in accordance with the provisions of the Charter.

The Department would be greatly benefited by the acquisition of another drill tower, to be located in the Western Addition, and similar in construction to the two drill towers now in operation. This would enable the Department to be divided into three tower drill districts, and by thus reducing the amount of attendance at the now existing towers, allow more frequent attendance, and consequently more drill practice for the members, and at the same time lessen to a considerable extent the distance from their respective company quarters many of the members are now required to go for this purpose.

I have repeatedly recommended that the small and inadequate water mains in many streets be replaced by others of 8, 12 and 16 inches diameter, in order to permit

FIRE COMMISSIONERS

the setting of needed hydrants, and that mains be extended to districts now entirely unprotected, but as the carrying out of these recommendations depends upon the will of a private corporation, very little has as yet been accomplished.

The inauguration of the Twin Peaks auxiliary salt water system, for which provision has been made in the budget, is a matter of the most vital import, and no effort should be spared to hasten the completion of this system at as early a day as possible. The inestimable value the acquisition of this plant will prove to the city will readily be realized upon its completion and operation, as not alone will it afford a sufficient water supply for all fire protection purposes, but the many other useful and needed purposes to which it can be applied will more than compensate this municipality for the cost of the same. I would therefore again urge that there be no delay in commencing this undertaking, and sincerely trust that the close of the fiscal year we are now entering upon, will find it fairly under way.

In conclusion, I desire to tender my sincere thanks to your Honorable Board for the active and untiring interest manifested by you in all matters pertaining to the efficiency and advancement of the Department, and I also desire to express my thanks to the officers and members of the Department for the most commendable manner in which they have performed their required duties therein. To His Honor, Mayor Schmitz, and the Honorable Board of Supervisors and Honorable Board of Public Works I also wish to express my thanks for the interest shown in and assistance rendered this Department. To the Chief of Police and members of his force, to Fire Marshal Towe, to Captain Comstock of the Underwriters' Fire Patrol, and to Chief Hewitt of the Department of Electricity I also wish to extend my thanks in appreciation of the valuable assistance given this Department whenever required.

Respectfully submitted,

D. T. SULLIVAN,

Chief Engineer, S. F. F. D.

MEMBERS AND EMPLOYEES OF THE S. F. F. D.

OFFICERS.

D. T. SULLIVAN	Chief Engineer
JOHN DOUGHERTY	First Assistant Chief Engineer
P. H. SHAUGHNESSY	Second Assistant Chief Engineer
JOHN McCLUSKEY	Battalion Chief
JOHN WILLS	Battalion Chief
T. M. FERNANDEZ	Battalion Chief
E. F. McKITTRICK	Battalion Chief
MICHAEL O'BRIEN	Battalion Chief
M. J. DOLAN	Battalion Chief
WILLIAM D. WATERS	Battalion Chief
JOHN R. MAXWELL	Battalion Chief
JOHN J. CONLON	Battalion Chief
THOMAS MURPHY	Battalion Chief

COMPANIES.

ENGINE CO. No. 1.—Location, 419 Pacific Street.

E. J. Gillig	Captain	J. J. Murray	Hoseman
Silvio Rocco	Lieutenant	Jas. A. Loretto	Hoseman
Jas. H. Timon	Engineer	Timothy Collins	Hoseman
Daniel Farren	Driver	Octave Valente	Hoseman
J. H. O'Brien	Stoker	Charles Reinfeld	Hoseman

ENGINE COMPANY No. 2—Location, 22 O'Farrell Street.

Geo. F. Brown	Captain	John Ryan	Hoseman
W. C. Gallatin	Lieutenant	E. Lennon	Hoseman
.	Engineer	Geo. Bury	Hoseman
Chas. Schemel	Driver	M. Collins	Hoseman
M. Cunningham	Stoker	John Mitchell	Hoseman

ENGINE COMPANY No. 3—Location, 1317 California Street.

Thomas Magner	Captain	Jos. McNamara	Hoseman
Wm. T. Farrell	Lieutenant	S. S. Powell	Hoseman
S. W. Belden	Engineer	Henry A. Reid	Hoseman
David Levy	Driver	Edward McConigle	Hoseman
Wm. J. Byrne	Stoker..	John Kelly	Hoseman

ENGINE COMPANY No. 4—Location, 676 Howard Street.

Michael Boden	Captain	Julius Gimmel	Hoseman
J. F. Conlon	Lieutenant	J. H. Collins	Hoseman
J. A. Fitzpatrick	Engineer	Thomas Devine	Hoseman
Edward O'Neill	Driver	T. J. Cashin	Hoseman
N. N. Mathewson	Stoker	Jas. Bridgewood	Hoseman

ENGINE COMPANY NO. 5—Location, 1219 Stockton Street.

N. N. Mathewson	Captain..	E. D. Valente	Hoseman
D. J. Harrison	Lieutenant	A. Isaacs	Hoseman
Thomas Coogan	Engineer	Jno. Arata	Hoseman
Robert Malberg	Driver	Chas. Gallatin	Hoseman
Paul Demartini	Stoker	Wm. Spinetti	Hoseman

ENGINE COMPANY NO. 6—Location, 311 Sixth Street.

C. J. Cullen	Captain	John Titus.....	Hoseman
Edward Daunet	Lieutenant	A. Cleaver.....	Hoseman
P. H. Brandon.....	Engineer	E. McGrorey.....	Hoseman
Joseph McDonald	Driver	J. C. Crowley.....	Hoseman
Chas. Neil	Stoker	Michael Dwyer.....	Hoseman

ENGINE COMPANY NO. 7—Location, 3160 Sixteenth Street.

Arthur W. Welch	Captain	Charles Malloy.....	Hoseman
Samuel E. Kennard.....	Lieutenant	J. M. Rojas.....	Hoseman
M. J. Rodrigues.....	Engineer	George Spellman.....	Hoseman
Martin Spellman.....	Driver	Jos. Burnett.....	Hoseman
John Allen	Stoker	Archie Jensen.....	Hoseman

ENGINE COMPANY NO. 8—Location, 1648 Pacific Avenue.

I. Gurmendez.....	Captain	Howard Holmes.....	Hoseman
Wm. Muenter	Lieutenant	Stephen Balk.....	Hoseman
Edward Colligan.....	Engineer	D. Coughlin.....	Hoseman
M. J. Glennan	Driver	Martin Burns.....	Hoseman
Timothy Flynn	Stoker	George H. Knorp.....	Hoseman

ENGINE COMPANY NO. 9—Location, 320 Main Street.

Chas. Dakin	Captain	John J. Balleto.....	Hoseman
Thos. Muldowney	Lieutenant	Jas. Tuite.....	Hoseman
T. J. Sheehan.....	Engineer	Allen Matlock.....	Hoseman
John Blythe	Driver	A. Lafferty.....	Hoseman
Walter Cline	Stoker	Jos. Meader.....	Hoseman

ENGINE COMPANY NO. 10—Location, 516 Bryant Street.

Geo. Bailey.....	Captain	Alfred Girot.....	Hoseman
John Lavaroni.....	Lieutenant	Edward O'Malley.....	Hoseman
A. H. Spiegel	Engineer	L. Curry.....	Hoseman
Jas. Cronin	Driver	Thos. F. Collins.....	Hoseman
Geo. Faubel.....	Stoker	Wm. Hanton.....	Hoseman

ENGINE COMPANY NO. 11—Location, 1632 Fifteenth Ave. South.

Charles Smith.....	Captain	Phillip Moholy.....	Hoseman
Joseph H. Hoare.....	Lieutenant	Peter Brady.....	Hoseman
C. J. Strouse.....	Engineer	Cornelius McTiernan.....	Hoseman
James Hagen.....	Driver	James Flater.....	Hoseman
Christopher Windrow.....	Stoker	John Ford.....	Hoseman

ENGINE COMPANY NO. 12—Location, 101 Commercial Street.

Jeremiah Sullivan	Captain	Wm. De Long.....	Hoseman
Emile Gouvi	Lieutenant	Harry Carter.....	Hoseman
Thomas J. Daly.....	Engineer	Joseph Woods.....	Hoseman
John Farrell	Driver	Geo. Wells.....	Hoseman
J. J. Loftus.....	Stoker	Geo. Gilbert.....	Hoseman

ENGINE COMPANY NO. 13—Location, 1458 Valencia Street.

Daniel Newell	Captain	Louis Walters.....	Hoseman
John Pendergast	Lieutenant	Albert McDonald.....	Hoseman
William Heaney	Engineer	S. Simons.....	Hoseman
George McLaren	Driver	W. J. Olsen.....	Hoseman
Thomas Barry.....	Stoker	Wm. Crawhall.....	Hoseman

ENGINE COMPANY NO. 14—Location, 1051 McAllister Street.

Wm. J. Kenealey Captain	Hugh Powers Hoseman
John Bowlan Lieutenant	Harry Tricon Hoseman
Louis H. Barricks Engineer	Edward Linderberg Hoseman
Daniel Lyons Driver	Wm. Hopkins Hoseman
Bert Sorensen Stoker	Charles Byrne Hoseman

ENGINE COMPANY NO. 15—Location, 2114 California Street.

F. E. Whitaker Captain	H. K. Mackay Hoseman
Wm. Gill Lieutenant	E. J. Moran Hoseman
Wm. Kerrigan Engineer	T. R. Walsh Hoseman
James Walsh Driver	Frank Lermen Hoseman
Martin E. Wormuth Stoker	Jas. Keepman Hoseman

ENGINE COMPANY NO. 16.—Location, 1009 Tennessee Street

W. H. Byrne Captain	Wm. Moore Hoseman
Martin Duddy Lieutenant	Thos. Connors Hoseman
Samuel Rainey Engineer	Michael Cusick Hoseman
Michael Gray Driver	Thos. F. Walsh Hoseman
B. F. Jones Stoker	Chas. Gill Hoseman

ENGINE COMPANY NO. 17—Location, 34 Mint Avenue.

Jos. Capelli Captain	Harry Newman Hoseman
Jos. Hayden Lieutenant	T. J. Leahy Hoseman
Thomas Kelly Engineer	E. L. Raffestin Hoseman
Claude Brownell Driver	W. D. Carey Hoseman
Wm. Sawyer Stoker	J. J. Kenney Hoseman

ENGINE COMPANY NO. 18—Location, 317 Duncan Street.

Henry F. Horn Captain	John Reimers Hoseman
Daniel Murphy Lieutenant	Thomas Jones Hoseman
Daniel McLaughlin Engineer	Wm. Murphy Hoseman
John Scannell Driver	John McLaughlin Hoseman
Chas. McDonald Stoker	J. L. Collins Hoseman

ENGINE COMPANY NO. 19—Location, 1419 Market Street.

John Matheson Captain	C. Kelleher Hoseman
Henry Speckman Lieutenant	Jas. Bohan Hoseman
Joseph Cannon Engineer	Wm. Crosby Hoseman
J. L. Nannery Driver	Daniel O'Rourke Hoseman
M. W. O'Connell Stoker	J. Wales Hoseman

ENGINE COMPANY NO. 20—Location, 2117 Filbert Street.

Henry Mitchell Captain	John Gavin Hoseman
J. J. Kelley Lieutenant	Thomas Bulger Hoseman
Frank Crockett Engineer	Gabriel Woods Hoseman
David Capelli Driver	Geo. Davis Hoseman
James Tyrell Stoker	Robert McShane Hoseman

ENGINE COMPANY No. 21—Location, 1152 Oak Street.

John Doherty Captain	Edward Long Hoseman
James Feeney Lieutenant	J. F. Meacham Hoseman
M. J. O'Connell Engineer	James Buckley Hoseman
Fred Franchi Driver	Charles Leter Hoseman
W. H. Leonhardt Stoker	Charles Tyson Hoseman

FIRE COMMISSIONERS

ENGINE COMPANY No. 22—Location, 1348 Tenth Avenue.

Jno. Fay	Captain	Lemuel Rudolph	Hoseman
Thomas Collins.....	Lieutenant	Edward McDermott	Hoseman
F. S. Hall	Engineer	Jos. Bailey	Hoseman
M. J. O'Conner.....	Driver	Jeremiah Mahoney.....	Hoseman
Eugene Crummey.....	Stoker	T. J. Hennessy	Hoseman

ENGINE COMPANY No. 23—Location, 3022 Washington Street.

Jas. Layden.....	Captain	T. H. Gallagher	Hoseman
W. F. Curran.....	Lieutenant	B. F. Currier	Hoseman
Chas. Hewitt.....	Engineer	F. W. Becker	Hoseman
J. J. McCarthy	Driver	Geo. McDonald.....	Hoseman
W. J. Shields.....	Stoker	John McDonald	Hoseman

ENGINE COMPANY No. 24—Location, 449 Douglass Street.

Edward Skelly	Captain	Edward Toland	Hoseman
Eugene McCormack.....	Lieutenant	F. J. Pope	Hoseman
B. L. McShane.....	Engineer	A. Florence	Hoseman
Wm. O'Conner.....	Driver	Jos. Lee	Hoseman
M. J. O'Connell.....	Stoker	F. H. Shade	Hoseman

ENGINE COMPANY No. 25—Location, 2547 Folsom Street.

Jas. Radford	Captain	H. R. Marden	Hoseman
Jno. Cauley.....	Lieutenant	Wm. Swanton.....	Hoseman
Joseph Finn	Engineer	J. T. O'Brien	Hoseman
Malachi Norton.....	Driver	George Lahusen.....	Hoseman
John McNamara	Stoker	E. R. Doherty	Hoseman

ENGINE COMPANY No. 26—Location, 351 Second Avenue.

J. H. Dever	Captain	M. F. Dougherty	Hoseman
Michael Drury.....	Lieutenant	J. E. Owens	Hoseman
P. D. Hughes	Engineer	Louis Andrews	Hoseman
Walter Lintott	Driver	George Lawson.....	Hoseman
Henry Welch.....	Stoker	E. J. Sheddy.....	Hoseman

ENGINE COMPANY No. 27—Location, 621 Herman Street.

S. D. Russell	Captain	G. F. Bunner	Hoseman
Laurence O'Neill	Lieutenant	E. I. Church.....	Hoseman
Edward Brennan	Engineer	Wm. Siewert.....	Hoseman
H. G. Root	Driver	John Conroy	Hoseman
Jos. Stevens.....	Stoker	A. C. Butt	Hoseman

ENGINE COMPANY No. 28—Location, 301 Francisco Street.

Henry Schmidt.....	Captain	August Banker.....	Hoseman
Wm. Everson	Lieutenant	August Engelke.....	Hoseman
Jos. Pendergast	Engineer	Wm. Jeffers.....	Hoseman
J. F. Sweeney.....	Driver	Michael Ryan	Hoseman
John McGowan	Stoker	August Stoffer	Hoseman

ENGINE COMPANY No. 29—Location, 1305 Bryant Street.

Thos. J. Murphy.....	Captain	G. E. Wielan.....	Hoseman
J. A. O'Brien.....	Lieutenant	Jos. A. McGinn.....	Hoseman
F. F. Orr.....	Engineer	Frank Murray.....	Hoseman
Thos. Hart.....	Driver	Jas. M. Flood.....	Hoseman
Samuel J. Spear.....	Stoker	O. H. Pyritz.....	Hoseman

ENGINE COMPANY No. 30—Location, 1757 Waller Street.

D. R. Sewell Captain	Edward Kelleher Hoseman
Thos. J. Kelly Lieutenant	J. H. Enright Hoseman
M. A. Morgan Engineer	Anthony Phelan Hoseman
John H. Brophy Driver	Chas. F. Smith Hoseman
W. W. Harvey Stoker	E. F. Downs Hoseman

ENGINE COMPANY No. 31—Location, 1236 Pacific Street.

Thomas Canty Captain	T. J. Bean Hoseman
James Walsh Lieutenant	Edward King Hoseman
W. F. Welch Engineer	W. W. Willis Hoseman
Jos. Shaughnessy Driver	Jas. Mathews Hoseman
John T. Fitzsimmons Stoker	J. W. Barry Hoseman

ENGINE COMPANY No. 32—Location, Holly Park and West Ave.

Eugene O'Connor Captain	Joseph Morse Hoseman
George Styles Lieutenant	John Thompson Hoseman
Wm. Casebolt Engineer	Frank Johnson Hoseman
David Burke Driver	Robert Jones Hoseman
James Reynolds Stoker	George Cuneo Hoseman

ENGINE COMPANY No. 33—Location, 117 Broad St. (Ocean View.)

James W. Kentzell Captain	John Finnigan Hoseman
John Casserly Lieutenant	Thos. Johnson Hoseman
John Douglass Engineer	John Cannon Hoseman
John Hartford Driver	Fred Recpenbeil Hoseman
Peter Burke Stoker	W. K. Montgomery Hoseman

ENGINE COMPANY CO. 34—Location, 1145 Ellis Street.

Richard Allen Captain	Wm. Roebing Hoseman
Augustus Imbrie Lieutenant	Timothy O'Brien Hoseman
Louis Kiehl Engineer	G. H. Peters Hoseman
George Dykes Driver	Charles Sullivan Hoseman
George Hall Stoker	James Minigan Hoseman

ENGINE COMPANY No. 35—Location, 38 Bluxome Street.

William Danahy Captain	L. H. Richards Hoseman
William Miskel Lieutenant	Wm. Matheson Hoseman
A. S. Robertson Engineer	E. G. Riordan Hoseman
William Tobin Driver	W. W. Neifer Hoseman
James Handley Stoker	M. J. Dolan Hoseman

ENGINE COMPANY No. 36—Location, 720 Cliff Avenue.

W. E. Kelly Captain	James Walsh Hoseman
Wm. Nicholson Lieutenant	Bernard Donnelly Hoseman
H. J. Temple Engineer	Daniel McAuliffe Hoseman
J. H. Stroud Driver	James Fay Hoseman
J. P. Fitzgerald Stoker	John Hannan Hoseman

ENGINE COMPANY No. 37—Location, 1380 Utah Street.

P. F. Dugan Captain	Geo. Giblin Hoseman
Henry Sullivan Lieutenant	M. H. O'Neil Hoseman
Wm. Mullen Engineer	Theodore Trivett Hoseman
Robert Harris Driver	W. F. Tracy Hoseman
Thomas Barker Stoker	Jas. Skinner Hoseman

FIRE COMMISSIONERS

ENGINE COMPANY No. 38—Location, 868-870 Bush Street.

John Fitzpatrick	Captain	Wm. Conlon	Hoseman
C. F. Ward	Lieutenant	Henry H. Geister	Hoseman
Andrew Reid	Engineer	Julius Phillips	Hoseman
Wm. Hensley	Driver	P. J. Creede	Hoseman
John Johnson.....	Stoker	D. F. Buckley	Hoseman

RELIEF ENGINE COMPANY No. 1

H. H. Gorter	Captain	D. P. Cadigan	Hoseman
.....	Lieutenant	R. E. Charleton.....	Hoseman
.....	Engineer	Andrew Cunningham	Hoseman
Patrick Gordon	Driver	Daniel Casey	Hoseman
J. E. Harlow	Stoker	Albert Bernston	Hoseman

RELIEF ENGINE COMPANY No. 2.

John H. Kenney	Captain	P. J. Murphy	Hoseman
.....	Lieutenant	W. F. Haggerty	Hoseman
.....	Engineer	John McCluskey	Hoseman
Alexander George	Driver	C. F. Leuterdt	Hoseman
H. J. Hopkins	Stoker	Walter Malloy	Hoseman

RELIEF ENGINE COMPANY No. 3.

John Doyle	Captain	John Windsor	Hoseman
.....	Lieutenant	Thos. G. Howe	Hoseman
.....	Engineer	P. J. Mechan	Hoseman
.....	Driver	.....	Hoseman
.....	Stoker	.....	Hoseman

RELIEF ENGINE COMPANY No. 4.

Henry Rice.....	Captain	.....	Hoseman
.....	Lieutenant	.....	Hoseman
.....	Engineer	.....	Hoseman
.....	Driver	.....	Hoseman
.....	Stoker	.....	Hoseman

RELIEF ENGINE COMPANY No. 5.

D. R. Conniff.....	Captain	.....	Hoseman
.....	Lieutenant	.....	Hoseman
.....	Engineer	.....	Hoseman
.....	Driver	.....	Hoseman
.....	Stoker	.....	Hoseman

TRUCK COMPANY No. 1—Location, 676 Howard Street.

Robert Woods.....	Captain	J. H. Coleman	Truckman
George Hartman.....	Lieutenant	T. H. Conran.....	Truckman
Jos. Ticknor.....	Driver	J. T. Quinn.....	Truckman
George Carew	Tillerman	John F. Smith.....	Truckman
J. O'Neil	Truckman	W. D. O'Keefe.....	Truckman
Dennis O'Connell.....	Truckman	Jules Vincent.....	Truckman

TRUCK COMPANY No. 2—Location, 627 Broadway.

John Leahy.....	Captain	Wm. Conniff.....	Truckman
Frank Cummings.....	Lieutenant	Rinaldo Cuneo.....	Truckman
Joseph Corwell.....	Driver	George Clancy.....	Truckman
Frank Kruse	Tillerman	John Crosby.....	Truckman
Harry Wilson.....	Truckman	Frank Cassassa.....	Truckman
Henry Mulligan.....	Truckman	G. W. Dinan.....	Truckman

TRUCK COMPANY No. 3—Location, 1419 Market Street.

Wm. Schultz.....	Captain	Daniel Twoomey.....	Truckman
Edward Kehoe.....	Lieutenant	Frank Carew.....	Truckman
James Driscoll.....	Driver	Thomas McGlynn.....	Truckman
Chas. Heggum.....	Tillerman	Thomas Ward.....	Truckman
G. J. McLaughlin.....	Truckman	Joseph Dolan.....	Truckman
T. D. O'Brien.....	Truckman	Frank Jordan.....	Truckman

TRUCK COMPANY No. 4—Location, 1648 Pacific Avenue.

Frank Nichols.....	Captain	Michael Wright.....	Truckman
Alfred Davis.....	Lieutenant	Robert Powers.....	Truckman
Wm. Shackleton.....	Driver	J. J. Eckelman.....	Truckman
Patrick Hogan.....	Tillerman	F. J. Bowlen.....	Truckman
Patrick Sullivan.....	Truckman	Maurice Higgins.....	Truckman
W. F. Gernandt.....	Truckman	M. J. O'Brien.....	Truckman

TRUCK COMPANY No. 5—Location, 1819 Post Street.

M. J. Farley.....	Captain	John Pyne.....	Truckman
W. F. Otto.....	Lieutenant	Thos. Timmons.....	Truckman
Chas. Malloy.....	Driver	Fred Woods.....	Truckman
Wm. Serens.....	Tillerman	R. Oppenheim.....	Truckman
John Devine.....	Truckman	Fred Mayer.....	Truckman
Henry McMahon.....	Truckman	Louis Balletto.....	Truckman

TRUCK COMPANY No. 6—Location, 1152 Oak Street.

John F. Dryer.....	Captain	Fred Grote.....	Truckman
Frank Murphy.....	Lieutenant	Geo. M. Boyson.....	Truckman
John P. Hayden.....	Driver	Henry Casey.....	Truckman
Michael Flanagan.....	Tillerman	John Riley.....	Truckman
G. H. Thomas.....	Truckman	Leo Castillo.....	Truckman
Gustave Hain.....	Truckman	John Figuero.....	Truckman

TRUCK COMPANY No. 7—Location, 3050 Seventeenth Street.

William Carew.....	Captain	R. E. Dugan.....	Truckman
Julius DeMeyer.....	Lieutenant	Fred Kirchner.....	Truckman
Charles Thoney.....	Driver	C. J. Brennan.....	Truckman
W. R. Nichols.....	Tillerman	Frank Flageollet.....	Truckman
.....	Truckman	J. R. Dower.....	Truckman
Wm. J. O'Connor.....	Truckman	Jas. Doherty.....	Truckman

TRUCK COMPANY No. 8—Location, 38 Bluxome Street.

T. B. Kentzell.....	Captain	J. H. O'Brien.....	Truckman
Walter Boynton.....	Lieutenant	Martin Judge.....	Truckman
Samuel Nelson.....	Driver	C. S. Maher.....	Truckman
Francis Wells.....	Tillerman	M. J. Haggerty.....	Truckman
Geo. Logan.....	Truckman	George Stolzenwald.....	Truckman
C. E. Dougherty.....	Truckman	Thos. Reilley.....	Truckman

TRUCK COMPANY No. 9—Location, 2979 24th Street.

W. J. Bannan.....	Captain	J. J. O'Connor.....	Truckman
F. A. Ellenberger.....	Lieutenant	John O'Donnell.....	Truckman
Rinaldo Jones.....	Driver	Thomas Fitzpatrick.....	Truckman
Charles McGuire.....	Tillerman	Wm. Mullaney.....	Truckman
W. J. Conroy.....	Truckman	Thomas Duffy.....	Truckman
Joseph F. Collins.....	Truckman	J. S. Farley.....	Truckman

FIRE COMMISSIONERS

TRUCK COMPANY No. 10—Location, 868-870 Bush Street.

Eugene Crow.....	Captain	Frank Miskel.....	Truckman
T. J. Harrington.....	Lieutenant	A. J. Harry.....	Truckman
Cornelius Connell.....	Driver	Peter Gallagher.....	Truckman
Henry Donnadiou.....	Tillerman	J. P. Cassidy.....	Truckman
W. F. Moran.....	Truckman	Geo. Henning.....	Truckman
J. F. Buker.....	Truckman	F. J. Kelley.....	Truckman

CHEMICAL COMPANY No. 1—Location, 180 Second Street.

F. W. Sayers.....	Captain	John Leckie.....	Driver
Walter Creber.....	Lieutenant	Maurice Barrett.....	Hoseman

CHEMICAL COMPANY No. 2—Location, 1819 Post Street.

John R. Mitchell.....	Captain	John J. Mitchell.....	Driver
Matthew McLaughlin.....	Lieutenant	Wm. Wanderlich.....	Hoseman

CHEMICAL COMPANY No. 3—Location, 410 Bush Street.

Walter A. Cook.....	Captain	John Brant.....	Driver
Charles Murray.....	Lieutenant	George Linehan.....	Hoseman

CHEMICAL COMPANY No. 4—Location, 451 McAllister Street.

James P. Britt.....	Captain	Thomas McGovern.....	Driver
Michael Hannan.....	Lieutenant	J. D. Sullivan.....	Hoseman

CHEMICAL COMPANY No. 5—Location, 627 Broadway.

W. E. Gallatin.....	Captain	William Newman.....	Driver
John F. Riley.....	Lieutenant	Mathew Brown.....	Hoseman

CHEMICAL COMPANY No. 6—Location, 868-870 Bush Street.

James Conniff.....	Captain	John Cahill.....	Driver
James Landtbom.....	Lieutenant	William Hart.....	Hoseman

CHEMICAL COMPANY No. 7—Location, 3050 Seventeenth Street.

George Ewing.....	Captain	Frank Josephs.....	Driver
W. J. O'Farrell.....	Lieutenant	A. G. Goddard.....	Hoseman

WATER TOWER COMPANY No. 1—Location, 180 Second Street.

Peter Wralty.....	Captain	J. B. Cane.....	Driver
		Frank McCluskey.....	Hoseman

MONITOR BATTERY No. 1—Location, 516 Bryant Street.

Nicholas Barbeta.....	Driver
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MONITOR BATTERY No. 2—Location, 676 Howard Street.

F. H. Kenny.....	Driver
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CORPORATION YARD EMPLOYEES.

John W. Reilly	Superintendent of Engines
John A. Cullen	Clerk of Commissary
Philip Brady	Hydrantman
Charles Claveau	Hydrantman
Edward Murray	Hydrantman
Joseph Sawyer	Night Watchman
John Sheehan	Drayman
W. P. Delaney	Machinist
W. H. Brown	Machinist
John Moholy	Machinist
John Bevans	Machinist Apprentice
Timothy Healey	Blacksmith
J. W. Rafferty	Blacksmith
Daniel O'Neil	Blacksmith
E. B. Williams	Blacksmith
George Cullen	Blacksmith Helper
Charles Gavigan	Blacksmith Helper
George Furey	Blacksmith Helper
William Flannigan	Blacksmith Helper
J. N. Hurley	Blacksmith Helper
George Harris	Boilermaker
Thomas McLaughlin	Brass Finisher
L. A. Donovan	Woodworker
J. A. Holland	Woodworker
W. J. Hudson	Steamfitter Helper
Thomas Burke	Watchman and Helper
Charles Carpenter	Watchman and Helper
S. Cornelius	Watchman and Helper
M. N. Richards	Teamster
J. Karney	Harnessmaker
Thomas Buckley	Harnessmaker
E. C. Laws	Harnessmaker
R. T. Davis	Harnessmaker
Charles Healey	Carriage Painter
David McKibben	Carriage Painter
James Doherty	Carriage Painter
Felix Desmond	Carriage Painter

DEPARTMENT STABLES EMPLOYEES.

W. J. Tobin	Acting Superintendent of Horses
W. F. Egan	Veterinary Surgeon
G. P. Gardella	Teamster
P. McKenna	Stableman
John Sullivan	Stableman
J. W. Sullivan	Stableman and Watchman
Peter Larsen	Watchman and Janitor
John Murphy	Hostler
E. M. Hoyt	Hostler
H. M. Klagge	Hostler

RULES AND REGULATIONS GOVERNING THE SAN FRANCISCO FIRE
DEPARTMENT.

RULE 1.

Section 1. The office of the board of Fire Commissioners shall be the headquarters of the San Francisco Fire Department. Office hours for the transaction of business shall be from 8:30 o'clock a. m. to 5 o'clock p. m. (Sundays and legal holidays excepted.)

Sec. 2. It shall be the duty of the Secretary of the Board of Fire Commissioners to be in attendance at all times daily during office hours—unless otherwise specially directed by the board—at the office of said Board. He shall keep a true record of all official actions of the Board, and shall also keep and be held responsible for the accuracy of the book accounts of the Department. He shall devise, with the approval of the Board, such methods for checking the receipt of material, supplies, etc., as will insure absolute accuracy in the compliance with contracts or agreements of purchase. He shall have the custody of and preserve all records, books, documents and papers belonging to the Department, and shall do and perform such other duties as may be required of him by the Board of Fire Commissioners.

Sec. 3. The headquarters of the Chief Engineer shall be, during office hours, at the office of the Board of Fire Commissioners, where he shall be in attendance, when not otherwise engaged in the business of the Department. After office hours his headquarters shall be at the house of Chemical Co. No. 3, 410 Bush Street.

Sec. 4. The headquarters of the First Assistant Chief Engineer shall be, during office hours, at the office of the Board of Fire Commissioners, where he shall be in attendance, when not otherwise engaged in the business of the Department. After office hours his headquarters shall be in the house of Engine Co. No. 17, at No. 34 Mint Avenue, except when otherwise ordered.

Sec. 5. The headquarters of the Second Assistant Chief Engineer shall be at the house of Engine Co. No. 34, 1145 Ellis street (except when otherwise ordered), and he shall be in attendance there when not otherwise engaged in business of the Department.

RULE 2.

Section 1. The Department shall be divided into ten Battalion Districts, each of which shall be under the immediate supervision of a Battalion Chief, with headquarters in their respective districts. Said districts and headquarters shall be as follows:

(a) District No. 1 shall comprise Engine Companies 5 and 28; Truck Co. 2, and Chemical Co. 5; with headquarters at 1812 Stockton street.

(b) District No. 2 shall comprise Engine Companies 2, 4 and 17; Truck Co. 1; Chemical Cos. 1 and 3; Water Tower Co. 1, and Monitor Battery No. 2; with headquarters at the house of Chemical Co. No. 3, 410 Bush street.

(c) District No. 3 shall comprise Engine Cos. 6, 10, 16 and 35; Truck Company 8 and Monitor Battery 1; with headquarters at Engine House, No. 10, 516 Bryant street.

(d) District No. 4 shall comprise Engine Cos. 11, 13, 18, 25, 32, 33 and 37; Truck Cos. 7 and 9 and Chemical Co. 7, with headquarters at Engine House No. 25, 2547 Folsom street.

(e) District No. 5 shall comprise Engine Cos. 3, 8, 31 and 38; Truck Cos. 4, 10, and Chemical Co. 6; with headquarters at Engine House No. 3, 1317 California street.

FIRE COMMISSIONERS

(f) District No. 6 shall comprise Engine Cos. 15, 20, 23 and 34; Truck Co. 5 and Chemical Co. 2; with headquarters at Engine House 15, 2114 California street.

(g) District No. 7 shall comprise Engine Cos. 7 and 24, with headquarters at Engine House No. 7, 3160 Sixteenth street.

(h) District No. 8 shall comprise Engine Cos. 14, 19 27 and 29; Truck Co. 3 and Chemical Co. 4; with headquarters at Engine House No. 19, 1419 Market street.

(i) District No. 9 shall comprise Engine Cos. 21, 22, 26, 30 and 36 and Truck Co. 6; with headquarters at Engine House No. 30, 1757 Waller Street.

(j) District No. 10 shall comprise Engine Cos. No. 1, 9 and 12; with headquarters at 112 Jackson street.

Sec. 2. There shall be two general divisions of the Department, viz.:

Division No. 1, comprising Battalion Districts Nos. 1, 2, 3, 5 and 10.

Division No. 2, comprising Battalion Districts Nos. 4, 6, 7, 8 and 9.

Sec. 3. One of said Divisions shall be under the immediate supervision of the First Assistant Chief Engineer, and the other under the Second Assistant Chief Engineer.

Sec. 4. Assignments of the First Assistant Chief and Second Assistant Chief Engineer to General Divisions, and of Battalion Chiefs to Battalion Districts, shall be made by the Board of Fire Commissioners, upon the recommendation of the Chief Engineer, and such assignments may be changed from time to time.

RULE 3.

Section 1. The Chief Engineer shall be the Chief Executive Officer of the Fire Department, and shall have general supervision over all officers, members and employees thereof. He shall also have and exercise supreme command at all fires over the officers, members and employees, and over all the apparatus and appurtenances belonging to the Department.

Sec. 2. He shall take all measures which he may deem expedient for the extinguishment of fires and the protection of property and saving of life, and shall see that all laws and ordinances of the City and County, and all orders and rules and regulations concerning the Fire Department are enforced.

Sec. 3. The Chief Engineer shall cause to be kept in the office of the Board a complete record or file of all complaints against members lodged with him by the Battalion Chiefs, and may suspend any subordinate officer, member or employee of the Department for incompetency or for any violation of the Rules and Regulations of the Department, and shall forthwith report in writing such suspension, with his reasons therefor to the Commissioners for their action.

Sec. 4. He shall diligently observe the condition of the men and apparatus, and general condition of the Department, and report in writing thereon at least once a month, and whenever required to do so, to the Commission, and make such recommendations and suggestions respecting the same as he may deem proper.

Sec. 5. He shall see that proper discipline is maintained by the officers and men, and shall report to the Commissioners any officer, member or employee of the Department who, by reason of age, disease, accident, incompetency, insubordination or other cause, cannot or does not fully, energetically, promptly and properly perform his duties in the Department.

Sec. 6. He shall make, subject to approval by the Board of Fire Commissioners, such assignments or details of the officers, members and employees of the Department as the duties thereof may require.

Sec. 7. He shall also perform such other duties as the Commissioners may direct.

RULE 4—FIRST ASSISTANT CHIEF ENGINEER.

Section 1. The First Assistant Chief Engineer shall rank next to the Chief Engineer, and shall attend all fires to which he is assigned, and such other fires as he may

be assigned or summoned to by the Chief, and, in the absence or inability to act of the Chief Engineer, shall have and exercise the duties and powers of that officer.

Sec. 2. He shall see that good order and proper discipline is maintained among the members of the Department, and that all laws and ordinances of the City and County pertaining to and all orders, rules and regulations of the Department, are enforced.

Sec. 3. He shall inspect the uniforms of all officers, and require strict compliance with the specifications therefore hereinafter given.

Sec. 4. He shall also perform such other duties as the Commissioners or Chief Engineer may direct.

RULE 5—SECOND ASSISTANT CHIEF ENGINEER.

Section 1. The Second Assistant Chief Engineer shall rank next to the First Assistant Chief Engineer, and shall attend all fires to which he is assigned, and such other fires as he may be assigned or summoned to by the Chief or First Assistant Chief Engineer, and in the absence or inability to act of the Chief or First Assistant Chief Engineer, shall have and exercise the duties and powers of the First Assistant Chief Engineer.

Sec. 2. He shall see that good order and discipline is maintained by the members of the Department in his Division: that all laws and ordinances of the City and County, pertaining to and all orders, rules and regulations of the Department, are enforced.

Sec. 3. He shall examine all buildings in the District to which he is assigned and report to the Chief Engineer concerning the same.

Sec. 4. He shall forthwith report in writing to the Board of Fire Wardens all buildings or structures that are found to be in a dangerous, defective or unsafe condition, and said Board shall through its Secretary, report the same to the Board of Public Works and keep a record thereof in a book used for that purpose.

Sec. 5. He shall also perform such other duties as the Commissioners or Chief Engineer may direct.

RULE 6—CHIEFS OF BATTALIONS.

Section 1. The Chiefs of Battalions shall respond to all alarms of fire to which they are assigned, and on arriving thereat shall immediately report to the commanding officer in charge of the fire.

Sec. 2. In the absence of the Chief Engineer or Assistant Chief Engineers at fires, the command of the force will devolve upon the Chief of Battalion who first arrives, and he shall remain in charge until the arrival of a superior officer.

Sec. 3. They shall visit each alternate day each company house under their charge, inspect its condition, and see that the horses, apparatus, hose and equipments are in proper condition for efficient service. They shall obtain a written report concerning the same from the captain of each company, and upon returning to headquarters prepare and forward to the Chief Engineer a written report of the result of such visit and inspection.

Sec. 4. They shall justly apportion, among all the members of the different companies under their respective commands, the work required about their company quarters.

Sec. 5. They shall examine all buildings in the districts to which they are assigned, and report to the Chief Engineer concerning the same.

Sec. 6. They shall forthwith report in writing to the Board of Fire Wardens all buildings or structures that are found to be in a dangerous, defective or unsafe condition, and said Board shall, through its Secretary, report the same to the Board of Public Works and keep a record thereof in a book used for that purpose.

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Sec. 7. They shall be held responsible for the discipline of all companies under their respective commands, and shall enforce all laws and ordinances of the City and County pertaining to the Fire Department, and a strict compliance with all orders, rules and regulations of the Department, and report promptly to the Chief Engineer every infraction thereof.

Sec. 8. They shall report promptly to the Chief Engineer any accident or other circumstance calling for prompt attention.

Sec. 9. They shall inspect the uniform of the officers and men under their supervision before they are worn, and reject all not in conformity with the specifications hereinafter given.

Sec. 10. They shall be constantly on duty at their respective headquarters, except when necessarily engaged elsewhere, on Department business, and shall not leave their districts except in case of fire or by permission of the Chief Engineer.

Sec. 11. They must, by way of practice, communicate once each day with the Fire Alarm Office, by means of the telegraph key or appliance in the nearest fire alarm box to their respective headquarters.

Sec. 12. They shall also perform such other duties as the Commissioners or Chief Engineer may direct.

RULE 7—THE BOARD OF CHIEFS.

Section 1. The Chief Engineer, the Assistant Chief Engineers and the Battalion Chiefs of the Department shall compose the Board of Chiefs.

Sec. 2. The Board of Chiefs shall hold regular meetings each month, or as often as is necessary.

Sec. 3. The regular monthly meetings shall be held at the Fire Warden's rooms on the third Monday of each month at 10 o'clock a. m.

Sec. 4. The Chief of Department shall be ex-officio chairman of the Board and one of its members shall be elected secretary, whose duty it shall be to make and keep a proper record of the proceedings.

Sec. 5. The Board of Chiefs shall consider the interests of the Fire Department as to its personnel, discipline, occupation of the men while in their company houses, location of houses and the apparatus to be kept or placed therein, the character of the apparatus, hose, nozzles, etc., noting those giving best use and satisfaction, and all other matters relating to the development and perfecting of the San Francisco Fire Department, to the end that it may reach the highest efficiency.

Sec. 6. The Board of Chiefs will transmit to the Board of Fire Commissioners such recommendations as they may agree upon from time to time.

RULE 8—CAPTAINS.

Section 1. Captains shall have and exercise command over their respective companies, and shall be responsible for the discipline and condition thereof, and shall see that the houses under their control and everything pertaining thereto, horses, harness, apparatus and equipments, are at all times kept in proper order.

Sec. 2. They shall enforce a strict compliance with the rules and regulations of the Department and the orders of the Chief Engineer, and report to their Battalion Chiefs any infractions thereof.

Sec. 3. The Captain of each company shall keep three books, to be designated as follows:

(a) The Property Book, (b) The Supply Book, (these two may be combined in one,) (c) The Journal.

Sec. 4. In the Property Book shall be entered a complete list of all the property in the company house under his control, furniture, horses, apparatus, hose, tools, etc.

as it is received by him from time to time, and such as may become useless, or is destroyed, or that may be returned to the corporation yards, stables, shops, or the persons or firms from whom purchased. At the end of each fiscal year each Captain shall report in full in writing to the Commission all the property in his possession belonging to the Department.

Sec. 5. In the Supply Book shall be kept an accurate memorandum of all perishable supplies received, such as forage, fuel, etc., the date of receipts, the name of the party from whom received, and the quality of such supplies. A receipt shall be given in every case for supplies received and a written statement thereof forwarded to the Commissioners monthly.

Sec. 6. In the Journal shall be entered a brief history of each day's happenings.

- (a) Particulars of all alarms responded to.
- (b) Accidents to men, horses or apparatus.
- (c) Special duty performed by officers or men or company.
- (d) Delinquencies and insubordination.
- (e) Orders received, how and from whom received.
- (f) Unusual occurrences.

Sec. 7. They shall also keep a scrap book, in which shall be pasted copies of all amendments to the Rules and Regulations of the Department, and all general and special orders and instructions issued by the Board of Fire Commissioners and the Chief Engineer.

Sec. 8. Captains shall, with their companies, respond promptly to alarms of fire according to directions issued from time to time by the Chief Engineer, and upon their arrival at a fire immediately report to the officer in command; or if first to arrive assume and exercise command until the arrival of a superior officer, and if deemed necessary, shall order a second alarm before the arrival of a superior officer. The apparatus shall, immediately upon arrival at a fire, be placed in position for service.

Sec. 9. They shall politely receive visitors and answer all proper questions civilly, explaining when requested to do so, the apparatus, alarms, etc., but shall not allow habitual lounging or visiting in or about quarters, nor shall they permit children therein unless accompanied by parents or attendants.

Sec. 10. They shall devote one-half hour each Friday to reading and explaining to the members of their respective companies the Rules and Regulations of the Department pertaining to the duties of the men, etc.

Sec. 11. They shall see that all the required work about their quarters is completed by ten o'clock a. m. sharp, and that everything is in readiness for the daily inspection at that hour, at which all members of the company will appear in uniform except in case of a working fire after twelve o'clock during the previous night.

Sec. 12. After inspection they shall make out, and deliver to the Battalion Chief on each alternate day, a report of the condition of the house, horses, apparatus, hose, and other equipments of their respective companies.

Sec. 13. They shall make such disposition of the men under their command as will enable them to attend their respective places of worship every Sunday, if possible, but at least once on every alternate Sunday, or other day of the week, which the man or men are accustomed to recognize as the day of public worship. Such "offs" will be so arranged as not to impair the service, and members availing themselves of this privilege will be required to attend said place of worship in uniform.

Sec. 14. They shall report to their Battalion Chiefs without delay all accidents resulting in injury, loss of life or damage to property, together with the names and addresses of all available witnesses thereto, whether happening to members of the Department or its apparatus or horses or to the persons of citizens or their property, in connection with the operation of this Department.

Sec. 15. They shall promptly report in writing to their Battalion Chiefs every breach of discipline or violation of the rules and regulations of the Department.

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Sec. 16. They shall see that the wheels are taken off the different pieces of apparatus and vehicles, that may be under their charge and control at least once in every week, and that the axles and wheel boxes are carefully inspected and the condition thereof noted in the house journal of that day.

Sec. 17. They shall also carefully instruct the members of their companies as to the rules and regulations relating to responding to alarms of fire and the changing of locations, as are set forth in the Assignment Book, and see that the same are strictly observed, and it shall also be their duty to see that the men are thoroughly familiar with the "pegging-up" of companies on the record board.

Sec. 18. On returning to quarters from an alarm of fire, before allowing the fire to be pulled from their respective engines, and before entering the house with the apparatus, they shall ascertain from the register if any alarm has been sent in during their absence. Captains of Trucks, Chemicals and Water Tower Companies shall do likewise.

Sec. 19. They shall perform such other duties as may be required of them by their superior officers and the rules and regulations of the Department.

RULE 9—LIEUTENANTS.

Section 1. Lieutenants shall respond to all alarms of fire prescribed for their company and promptly and cheerfully obey the orders of the Captains and assist him in the performance of his duties, and shall also perform the duties required of hose-men or truckmen, as the case may be, and such other duties as may be required of them by their superior officers and by the Rules and regulations of the Department.

Sec. 2. Lieutenants shall, in the absence of the Captain, perform his duties and exercise the authority of said officer.

RULE 10—ENGINEERS.

Section 1. Engineers shall, under their commanding officer, have the care and management of their engine, and shall be held responsible for its condition. They shall see that it is kept clean, in good order, and ready for immediate service at all times.

Sec. 2. Engineers who respond to boxes along the water front will each day ascertain from the daily papers the condition of the tide, and note the time of high and low water on the blackboard for immediate reference in event of fire.

Sec. 3. When additional fuel is required at a fire the stoker or driver of the company shall be sent to the nearest engine house for a fresh supply. The Engineer's orders in such cases shall be obeyed by the stoker or driver.

Sec. 4. Where engines have been disconnected from the heaters long enough to allow the water in the boilers to become cool, engineers will light the fire under the boiler and keep the water at least at scalding heat.

Sec. 5. All engineers must have their apparatus in good order before a relief engineer may take charge. A thorough examination by both engineers must be made immediately before the relief Engineer receipts to the Engineer reporting off. Such receipt must be given at once to the Captain of the company, and by him turned over to the Battalion Chief.

Sec. 6. The fires of engines shall not be dumped upon pavements of bituminous rock or asphaltum.

Sec. 7. On receiving a relief or other engine in place of their own, Engineers will immediately prepare said engine for fire service, such as relaying fire, changing tools, filling boiler, and heating same, and to otherwise see that the said apparatus is in per-

fect order for fire duty. They will also retain possession of their own engine, if the same is fit for service, until the relief engine is prepared to roll.

Sec. 8. Engineers will open and close by hand the snap valves connecting the engine with the heater at least once every twenty-four hours; see that the stems are well lubricated and springs properly adjusted, so as to insure their closing when the engine leaves its position. Slip-joints shall be removed from floor stuffing-boxes and cleansed and oiled daily. He shall also see that the snap-valves are closed every time the engine pulls away from the heater connection.

Sec. 9. They will test the working qualities of their respective engines monthly under the same pressure allowed at fires. When draughting with pumps is not convenient, engineers will take the nearest hydrant to quarters, generate the regulation amount of steam; run water pressure up to 120 pounds by partially closing the discharge gate (if by leaving it open and playing a full stream the street and surrounding property would be damaged); leading off sufficient hose to reach the nearest cess-pool. Engineers will report the result of such monthly tests, in writing, to the Superintendent of Engines upon his visit after each said test.

Sec. 10. They will thoroughly cleanse their boilers once every fourteen days by removing all plugs from around the bottom of the boiler, using bent pipe, which will be furnished upon requisition. Such cleansing must be done immediately after return from exercising horses. After washing out boiler connect the same to heater pipes and fill from that source, making use of the hot water in the heater and boiler where there is one in use. Heaters shall also be emptied and cleansed every fourteen days, but not upon the same day that boilers are cleansed. When an engine has been working an hour or more, the same precaution shall be observed as on regular boiler cleaning days, and the same noted in daily report, together with such other remarks on the condition of the boiler as may be deemed proper.

Sec. 11. They will carefully examine their shut-off nozzles after every fire and drill at which said nozzle has been used; see that all parts are lubricated, and monthly screw nozzles into nearest hydrants, open and close the same and see that all parts are in perfect working order.

Sec. 12. They will inform their captain whenever their engine may need any material or repairs.

Sec. 13. They shall not allow their engines to carry steam higher than eighty pounds pressure while in service at fires, nor more than one hundred pounds pressure per square inch on the hose, without an order from the officer in command at a fire.

Sec. 14. They shall have their apparatus clean and ready for inspection daily at 10 o'clock a. m., except in case of a working fire after 12 o'clock during the previous night.

Sec. 15. Whatever work is done on apparatus other than cleaning must be fully noted in the company journal.

Sec. 16. They shall carefully instruct the other members of their respective companies, who may be in charge of the engine heater, etc., during their watches, as to the proper care of the same and shall report to the Captain any neglect or violation of the rules in regard to the care of engine, heater, etc., which they may find to have occurred during said watches.

Sec. 17. They shall remove and relay the fire in the fire-box immediately upon the return of the engine to quarters after exercising, and also upon the return to quarters after the apparatus has traveled one-half mile or more without having ignited fire.

Sec. 18. There shall be in each engine company at least one member thereof who must be competent to take charge of the engine, and whose duty it shall be to act as Engineer and perform the required duties thereof in the absence of the regular engineer.

Sec. 19. They shall perform such other duties as may be required of them by their superior officers and the rules and regulations of the Department.

RULE 11—DRIVERS.

Section 1. Drivers shall take proper care of their horses; exercise the greatest caution in their care and management; keep the stalls clean, and see that everything pertaining to their department is in perfect order and in readiness for immediate service.

Sec. 2. They shall not run their horses while responding to or returning from alarms of fire, nor shall they pass other apparatus of the Department, unless such apparatus or horses be disabled (except that drivers of Chemicals may pass other apparatus except Chemicals, if the same can be done with safety), but all proper dispatch consistent with safety must be used in responding to alarms of fire.

Sec. 3. They must, on all occasions, securely strap themselves to the seat of their apparatus immediately upon mounting the same.

Sec. 4. Drivers of Monitor batteries, upon returning to quarters from an alarm of fire, shall ascertain from the register if any alarm has been sent in during their absence, before entering the house with the apparatus.

Sec. 5. Drivers of Chemical engines are expected to get their apparatus to a fire at the earliest possible moment, and in so doing will drive at as rapid a gait as is consistent with the safety of the public and the apparatus. Chemical Companies may pass other companies, except other Chemical companies, when it can be done with safety.

Sec. 6. In returning from a fire all driving shall be at a moderate rate of speed.

Sec. 7. They shall exercise their horses one hour each day when the horses have not performed any work after 1 o'clock a. m.

Sec. 8. Drivers of hill companies when responding to alarms that take their apparatus off the hills, will be careful to slow up as much as possible at crossings and look up and down each street, so as to avoid passing the fire.

Sec. 9. They will see that bells or gongs are rung at short intervals when proceeding to a fire.

Sec. 10. Drivers of engines shall not pass a fire to take a hydrant, unless by so doing they can obtain a closer position to the fire without shutting out another company that may be seen coming from another direction.

Sec. 11. Drivers of trucks, chemicals, towers and batteries, must not stop their apparatus in front of a hydrant.

Sec. 12. They shall not drive their apparatus over hose except when absolutely necessary.

Sec. 13. They shall perform such other duties as are required by their superior officers and the rules and regulations of the Department.

RULE 12—STOKERS.

Section 1. The duties herein imposed upon drivers shall, as far as practicable, apply to Stokers, and upon the completion of such duties, they shall assist, when necessary, the Engineer in caring for the engine and apparatus.

Sec. 2. They shall always, in response to alarms of fire, precede the engine with the hose wagon, unless otherwise ordered.

Sec. 3. They shall perform such other duties as are required by their superior officers and the rules and regulations of the Department.

RULE 13—HOSEMEN AND TRUCKMEN.

Section 1. Hosemen and Truckmen shall respond to all alarms of fire prescribed for their respective companies, and in every case they shall conform to and promptly and cheerfully obey all rules and regulations of the Department, and perform such

other duties in connection with the Department as their superior officers may require of them.

RULE 14—TILLERMEN.

Section 1. Tillermen shall be at the tiller in going to and returning from fire, and upon all other occasions when their service in that capacity are required.

Sec. 2. They shall also perform such other duties as are required by their superior officers and by the rules and regulations of the Department.

RULE 15—CHEMICAL ENGINE, WATER TOWER AND MONITOR BATTERY COMPANIES.

Section 1. Officers and members of Chemical Engines, Water Tower and Monitor Battery Companies will be subject to the same rules governing other officers and members of the Department, as far as applicable, and shall perform such other duties as may be required of them by their superior officers, and the rules and regulations of the Department.

Sec. 2. Drivers of Monitor Batteries shall be under the supervision and subject to the orders of the Captain of the company in whose quarters they may be located.

RULE 16—HOUSES AND HOUSE WATCH.

Section 1. The house shall be kept at an even temperature of about sixty degrees; thorough ventilation must be maintained, in order that a good supply of pure air may be secured with as little draught as possible.

Sec. 2. Houses must be washed twice a month, weather permitting. The use of chloride of lime or any like substance on the floors of houses is prohibited, except on stall floors.

Sec. 3. Members receiving forage, fuel, etc., will only receipt for the actual amounts received by them. Coal, 2,240 pounds to the ton; wood, per cord, 4x4x8—128 cubic feet; feed, per 100 pounds or fraction thereof.

Sec. 4. Engineers will carefully instruct their assistants in the engine house in the care and management of the apparatus, heater, syphon, etc., while in quarter, the house watchman, or assistant house watchman, each being held personally and solely responsible for said apparatus after having assumed charge of the floor.

Sec. 5. A continuous watch shall be maintained in the apparatus rooms of all company houses of the department during the whole twenty-four hours of the day. The day and night will be divided up into watches by the Battalion Chiefs of the respective districts and the men to stand the same shall be designated by the Captain, unless otherwise provided. No watch between the hours of 6 o'clock p. m., 6 o'clock a. m., and shall be for a longer time than four hours, and no member shall be called upon to keep more than one night watch in twenty-four hours.

Sec. 6. There shall be in all engine and truck houses at least two men constantly on watch, with the exception of the first evening watch, when but one man shall be on watch. They shall be designated house watchmen and assistant house watchman. Where an engine and truck company occupy the same house, two men from each company shall constitute the house watch, and the man from the engine company shall have charge and care of engine and heaters on their watch.

Sec. 7. It shall be the duty of the house watchmen to take charge of the telegraphic instruments, answer all telephone calls, correctly receive all alarms of fire, sound the gong for all alarms to which the company responds, and immediately report the location thereof to the Captain of the Company. They shall keep the company journal while on duty, make all proper entries therein, and shall not cause, permit or allow it to be tampered with.

Sec. 8. In no case shall the men on watch, or either of them, leave their post until relieved, except in case of fire. In the event of failure on the part of their successors to relieve them, after being called, the Captain of the company shall be promptly summoned and advised of the fact.

Sec. 9. They shall not permit visitors after 10 o'clock at night, except by consent of the Captain, or a superior officer.

Sec. 10. No changing or trading of "offs" or any watch duty in companies will be allowed without the consent of the Captain.

Sec. 11. If any member of the company, not on leave of absence, goes out of quarters after 10 o'clock at night, the house watchman shall report the fact to the Captain of the company as soon thereafter as practicable.

Sec. 12. Watchmen shall not doze or sleep while on watch, nor permit any violation of these rules or regulations by any one in or in front of quarters, and shall at once call the captain if any disturbance occurs in or about quarters which he cannot control.

Sec. 13. Captains or Acting Captains of companies will at the end of each day sever the tape connected with the register in their respective houses on which alarms of fire are registered, thoroughly familiarize themselves with each box registered thereon, and then safely keep and store the same away in some convenient place for at least one week. Whenever there is anything wrong with the tapper, gong or register, or anything in connection therewith, they will immediately report the same to the Fire Alarm Office.

Sec. 14. Whenever, after one alarm has been received from any station, another alarm is received from the same, or from any other station before the first alarm has been tapped out, the house watchman shall immediately call the Captain or Acting Captain, in order that he may supervise the pegging on the record board.

Sec. 15. At six o'clock a. m. the house watchman shall call the company, and all members thereof must immediately arise and proceed with their regular duties of the day.

RULE 17—ACTS OF VALOR TO BE REPORTED.

The officer in charge at a fire will report to the Chief Engineer the names of such officers and members of the Department as may distinguish themselves in the discharge of their duties by the saving of human life at the risk of their own, and Assistant Chiefs and Battalion Chiefs will report any other meritorious acts that are worthy of special attention that may have been performed by members of the companies under their command, while on duty, either at a fire or elsewhere, giving a full and correct statement of the facts. The Chief Engineer shall submit all such reports to the Board of Fire Commissioners for consideration.

RULE 18—LEAVES-OF-ABSENCE.

Section 1. Except as herein provided, all leaves of absence must be obtained from the Board of Fire Commissioners, upon proper written application made therefor.

Sec. 2. The Assistant Chiefs and Battalion Chiefs are authorized to and may grant leaves-of-absence to the officers and members of companies under their control for a period not to exceed four days, and in all such cases they must put on substitutes at the expense of the men granted leave. All such substitutes to be taken from the regular authorized list thereof.

Sec. 3. The Chief Engineer is authorized to and may grant leaves-of-absence to officers and members of the Department not to exceed ten days, and he may also extend leaves-of-absence, granted in accordance with the foregoing section, not to exceed six days.

Sec. 4. The President of the Board of Fire Commissioners may grant leaves-of-absence to the Chief Engineer.

Sec. 5. When any member of the Department is sick, he shall report or cause the fact to be promptly reported to his Captain and Battalion Chief. The Battalion Chief shall verify the statement and grant a leave-of absence "on account of sickness" and shall put on a substitute in his place.

Sec. 6. Not more than three members of any engine or truck company having the full complement of men, and not more than two members of any engine or truck company of less than the full complement, and not more than two members of any chemical company will be allowed off on leave-of-absence at the same time. Exceptions may be made by the Battalion Chiefs in cases of sickness or urgency, after an investigation of the same.

Sec. 7. All leaves-of-absence granted, with the time and cause for granting the same, must be reported to the Board of Fire Commissioners at the first regular meeting held after such leave is granted.

Sec. 8. Applications for leaves-of absence from members of companies will not be considered by the Board of Fire Commissioners unless the same has been approved and countersigned by the Captain of the company of which the applicant is a member or to which he may be detailed for duty.

RULE 19—SUPERINTENDENT OF ENGINES.

Section 1. The Superintendent of Engines shall be responsible to the Board of Fire Commissioners and the Chief Engineer for the conduct and management of the repair shop. He is charged with the control and direction of the men assigned to duty under him, and shall see that their time is employed to the greatest advantage to the Department, and report to the Board of Fire Commissioners in writing all accidents or injuries received by said men, and all absentees from duty, together with the reasons for their absence.

Sec. 2. He shall keep a detailed record of all the work done, and shall make and keep a record in a book provided for that purpose, of any and all apparatus which becomes injured, broken or in any way disabled, together with the date of such occurrence, the company or place to which it belongs, the nature of the injury or disability, the cause, if known, and such other and further information regarding the same as may be necessary.

Sec. 3. He shall visit the quarters of each company once a week, if possible, or as often as occasion may require, and inspect the apparatus in service in the Department, and report at least once each month the condition of the same to the Chief Engineer, and make such recommendations as he may deem advisable.

Sec. 4. He shall see that the apparatus is at all times kept in good repair and ready for immediate service.

Sec. 5. He shall attend all fires for which third alarms are sent in.

Sec. 6. He shall also perform such other duties as may be required or prescribed by the Commissioners or Chief Engineer.

RULE 20—CLERK AND COMMISSARY CORPORATION YARD.

Section 1. He shall be responsible to the Board of Fire Commissioners and the Chief Engineer, and shall be on duty at his office at Corporation Yard No. 1 of the Department from 8 o'clock a. m. to 5 o'clock p. m. daily (Sundays and legal holidays excepted) and at such other times as the Chief Engineer may direct.

Sec. 2. He shall have the care and management of the supply department, and have charge of all hose, and apparatus and supplies purchased by order of the Commissioners.

Sec. 3. He shall, upon the receipt of requisitions therefor, deliver to the various companies the monthly supplies and stores for each company.

Sec. 4. He shall keep the books and accounts of the supply department in a systematic manner, showing the supplies received by him, the amount delivered to each company and the amount remaining on hand, and report monthly to the Board of Fire Commissioners.

Sec. 5. It shall be his duty to keep in a book provided for that purpose an account of the quantity, kind and condition of the hose in the Department, and in each company thereof, with such other record as may be required to insure at all times full knowledge of the condition of the same.

Sec. 6. He shall not deliver any supplies or stores of the Fire Department except upon an order signed by the Chief Engineer and the Secretary of the Commissioners (except during a conflagration supplies or apparatus may be delivered on the order of the Chief Engineer, Assistant Chief Engineers, Battalion Chiefs or Captains) and shall procure a written receipt for all such supplies or stores delivered.

Sec. 7. He shall answer all third alarms of fire, and perform such other duties as the Commissioners or Chief Engineer may direct.

RULE 21—VETERINARY SURGEON.

Section 1. The Veterinary Surgeon shall be responsible to the Chief Engineer, and shall visit the hospitals or stables daily. He shall also attend to all sick or injured horses belonging to the Department at any time of the day or night that such services may be needed. He shall give instructions to the attendants in charge of such horses and shall report to the Chief Engineer and Board of Fire Commissioners any neglect of duty of same.

Sec. 2. Each person attending to horses under treatment of Veterinary Surgeon shall report to him the condition of horses in his care, and obey all orders given by the Veterinary Surgeon as to their treatment.

RULE 22—SUPERINTENDENT OF HORSES.

Section 1. He shall be responsible to the Board of Fire Commissioners and the Chief Engineer for the performance of his duties in the general care and treatment of the horses of the Department.

Sec. 2. He shall instruct his men to give such medical, surgical and other attention to the horses of the Department as may be ordered by the Veterinary Surgeon, regulate their feed, and give such directions to those in charge of horses as in his judgment is necessary.

Sec. 3. He shall report to the Chief Engineer once a month, or as often as circumstances may require, the condition of the horses, etc., under his charge, and shall also report all deaths of horses, and recommend the condemnation and disposal of horses which become unfitted for service in the Department.

Sec. 4. It shall be his duty, at least twice each month, to visit each company quarters and inspect the horses and the forage furnished, give advice and direction as to feeding, and to report to the Chief Engineer any wilful neglect or any under-grade forage found.

Sec. 5. He shall keep an accurate, numerical and descriptive record of all horses in the Department, containing date of purchase, age, color, record of accidents, sickness and date of final sale, death or transfer, together with such other information concerning the same as may be useful.

Sec. 6. He shall have the charge and direction of the hostlers assigned for duty at the stables, and shall prescribe their duties.

Sec. 7. When not otherwise engaged on Department business he shall always be in attendance at the Department stables.

Sec. 8. He shall have and assume charge of the stables and see that everything appertaining thereto is kept in proper order and condition.

Sec. 9. He shall perform such other duties as may be required or prescribed by the Commissioners or the Chief Engineer.

RULE 23—HOSTLERS.

They shall devote their entire time and attention to the stable work assigned them, and shall perform such duties as may be prescribed by the Chief Engineer or Superintendent of Horses.

RULE 24—HYDRANTMEN.

Section 1. Hydrantmen shall attend to all hydrants and cisterns in their respective districts, see that the same are in good condition and ready at all times for immediate use.

Sec. 2. They shall see that the hydrants are at all times kept free from obstructions of every character, so that access thereto may be readily had by the engines of the Department.

Sec. 3. They will visit and inspect the cisterns in their respective districts once in each week, keep the same filled with water and see that they are in proper condition and ready for immediate use at all times. They will report the condition of the several cisterns once in each week to the Battalion Chief of the district wherein said cisterns are located, but if for any reason a cistern becomes useless the fact shall be immediately reported to the proper Battalion Chief.

Sec. 4. They shall register in books provided for that purpose the exact location of all hydrant gates in their respective districts and shall see that said gates are conspicuously exposed and not covered over or hidden in any way by pavement, bitumen or other material or substance used for street purposes.

Sec. 5. They shall perform such other duties as may be required of them by the Commissioners or Chief Engineer.

RULE 25—WATCHMEN.

Section 1. Night watchmen shall be in attendance daily at the Corporation Yard of the Department to which they may be assigned for duty from 6 o'clock p. m. until 7 o'clock a. m. the following morning, and shall carefully guard and protect the property intrusted to their care.

Sec. 2. They shall perform such other duties as may be required of them by the Superintendent of Engines.

RULE 26—CARE AND USE OF HOSE, APPARATUS, HORSES, HARNESS, IMPLEMENTS, ETC.

HORSES.

Section 1. All horses of the Department must be watered at 5 o'clock a. m. and fed at 6 o'clock a. m. with the regular allowance of cooked grain; the allowance of grain will be set aside by the driver, and the assistant house watchman will, about 1 o'clock each morning, pour boiling water over the same in a bucket provided for that purpose, and then fix the cover on tight so as to prevent the escape of the heat or steam therein. On feeding said allowance, another allowance will be immediately prepared. At 11 o'clock a. m. the horses will be watered and given a small quantity of hay, and at about 12 o'clock m. fed the regular allowance of prepared grain. At 6 o'clock p. m. water and bed the horses, give them their allowance of hay, then give a few carrots, or other feed which may be ordered by the Superintendent of Horses.

Sec. 2. All horses must be exercised daily for one hour, unless a run was had after 1 o'clock a. m. In wet weather exercising will be done, if possible, between showers.

Sec. 3. In good weather, during the spring and summer months, the horses will be permitted to stand outside the houses from 9:45 to 11 a. m.

Sec. 4. In case of sickness or injury to any horse, it shall be the duty of Captains to promptly report the same to the Superintendent of Horses and he shall see that measures are taken for the relief of such horse.

Sec. 5. Any horse which neglects to eat or shows any signs of being sick or lame, and any horse losing a shoe, will be immediately reported to the Superintendent of Horses, and a relief horse will be provided.

Sec. 6. Teasing or annoying horses or teaching them any tricks, or unnecessarily or severely punishing them, is prohibited.

Sec. 7. No gas or electric light shall be placed or kept directly in front of a horse's eyes.

Sec. 8. Muzzles are strictly prohibited on horses between the hours of 6 p. m. and 6 a. m., except while standing on the street.

Sec. 9. On cold or stormy nights, when it is necessary to remain at a fire for a long time, the drivers will blanket their horses well, and exercise them every half hour for ten minutes. If possible putting them in some sheltered place.

Sec. 10. A horse must never be given water or grain while he is hot after a run, except that his mouth and nostrils must be sponged out with cold water and he may be given two or three swallows only. Sweat must be wiped from around the eyes and under the tail with a damp sponge.

Sec. 11. Horses must be blanketed when standing in the open air.

Sec. 12. If a horse be under medical treatment, the driver must be careful to follow the instructions of the Veterinary Surgeon in administering the medicines and otherwise attending to the horse. If a driver lays off while attending to a sick horse, he must instruct his substitute as to how the horse is to be attended to.

Sec. 13. After returning from exercise or an alarm, horses' feet (not legs) must be washed out and examined for nails, loose shoes, etc., then rubbed down and if warm, blanketed (in houses that have no heater). The back door must be kept shut and draughts avoided as much as possible.

Sec. 14. In cold weather the chill must be taken off drinking water, or only a small quantity of cold water given at one time.

Sec. 15. A bucket must not be used to catch the horses' urine in. If a horse is straining to urinate and afraid to do so, straw must be shaken under him, which will encourage him to pass it. The stall must be rinsed out or washed down immediately. Manure should also be removed immediately.

Sec. 16. The mane and tail must be washed once a week with soap and warm water, weather permitting, and the sheath once every two weeks.

Sec. 17. Horses predisposed to scour must get small quantities of water often, instead of a large drink at one time.

Sec. 18. Grey or white horses stained on quarters, etc., may have spots sponged off with warm water and soap, but must be thoroughly dried with a "rubber" immediately. White legs may be treated likewise when necessary; otherwise the legs must never be washed, except by order of the Superintendent of Horses.

Sec. 19. Rain, sweat and mud must be removed immediately on getting into the house; first with a scraper and afterwards with a wad of straw or sack, care being taken to dry out the hollow of the heels thoroughly; what is left can be washed or brushed off when dry; use no water to remove it. Washing horses is prohibited.

Sec. 20. The feet should be stuffed every other night in dry weather.

Sec. 21. Musty or overdried hay, or musty food of any kind must be rejected, as it is injurious to the horse's wind.

Sec. 22. Clipping horses must be done under the directions of the Superintendent of Horses, but the mane and legs must be clipped clean at all times.

Sec. 23. Bedding should be removed for ventilation from the house in dry weather, where it is convenient to do so.

Sec. 24. Drivers are strictly prohibited from using a switch or other like appliance upon the horses while clipping the legs, cutting the manes, washing tails, etc. If a horse cannot be handled without the use of said appliances, the driver will notify the Superintendent of Horses.

HARNESS.

Sec. 25. No hot or warm water shall be used in cleaning harness.

Sec. 26. The use of emery cloth in polishing the points and bells of Hale or Berry hames and rein snaps is strictly prohibited. Nothing but oil shall be used.

APPARATUS.

Sec. 27. No alterations shall be made in trace or pole chains other than necessary adjustments.

Sec. 28. The use of water in and around the furnace of fire engines for removing sparks or other evidence of fire is prohibited. A dry broom shall only be used for said purpose.

Sec. 29. On returning from a run, the apparatus will be left outside of the house the horses blanketed, and the running gear thoroughly washed with small hose. Companies having a yard may wash their apparatus therein.

HOSE.

Sec. 30. Cotton hose must not be allowed to remain on the wagon more than twenty-four hours in a wet or damp condition unless unavoidable. The hose must be changed every fifteen days unless the same has been in actual service, during said time, and when said change is made, a note thereof shall be entered in the company journal.

Sec. 31. Cotton hose, after being used at a fire, and when returned to quarters, if only wet or damp, will be immediately hung up in the tower. If any hose is in a dirty condition from mud, etc., it shall be thoroughly cleaned, with a broom and water if necessary.

Sec. 32. When changing hose, before it is taken from the wagon or reel, there must be lowered down from the tower all the hose that is to be put on, and the lengths coupled together, care being taken to see that the couplings and swivels are in perfect order and that all have proper washers. A small quantity of tallow or oil should be used on the threads and swivels, but not enough to run on the fabric or rubber, as grease will injure either. What hose is necessary can then be removed from the wagon or reel and the dry hose placed thereon; the wet hose then hoisted in the hose tower. If any of the lengths of hose are injured, they must not be rolled up and set aside, but must be marked and hung up until called for by the supply wagon.

Sec. 33. Hose covers must not be folded. The inner or go-between cover must be rolled and stored under the seat; the outer cover of hose wagons and carriages, when not in use, must be hung at full length or width in a dry place, and not creased in any manner.

GENERAL RULES.

1. All officers and members of the Department must devote their entire time and attention to the services of the Department, and must not engage in any other business or calling.

2. No political, social or other organization shall be formed or maintained in the houses of the Department, and no meetings of any character, other than regular Company meetings will be permitted therein; and no officer, member or employee of the Department shall take any part whatever in any political convention, canvass or campaign, except to vote, and no interference in the free exercise of this right by every member of the Department will be tolerated. Any violation of this rule will be deemed sufficient cause for dismissal from the Department.

3. The officers and members of the Department are prohibited from forming and maintaining, exclusively amongst themselves, any society, company or organization supported by assessments upon or contributions from the members or employees of the Department, without having first obtained permission from the Board of Fire Commissioners to so do.

4. Officers shall be just, dignified and firm in their intercourse with subordinates, and shall abstain from using violent, abusive or immoderate language in giving orders and directions, as well as when in conversation with them.

5. Officers and members must at all times conduct themselves in a gentlemanly manner and refrain from using obscene, immoral, disrespectful, impudent or improper language.

6. Members of the Department shall not enter saloons or places where liquor is sold while wearing their uniforms or while on duty, except in the legitimate discharge of their duties.

7. No intoxicating beverages shall be brought into, kept or drunk in or about any of the houses or premises of the Department, and any member or employee, who while on duty, or while in uniform, or when about the premises of the Department becomes intoxicated, or who absents himself from duty because of drink shall be subject to dismissal, or such other penalty as the Board of Fire Commissioners after trial, may impose.

8. The smoking of cigarettes shall not be permitted in or about the house of the Department, and smoking while on the apparatus or vehicle is at all times prohibited.

9. Gambling of all kinds is strictly prohibited in or about the house of the Department.

10. Congregating on the sidewalk in front of or adjacent to Company houses is also prohibited.

11. Members and employees of the Department are prohibited from using the telephone in service therein for any other purpose than on business connected with the Department, and no person or persons, other than public officials, shall be allowed to use the same, and then only on official business connected with their respective offices.

12. No member or employee shall sell or assign or discount his salary warrant or demand on the Treasurer; nor shall any member or employee endorse or guarantee in writing, the note assignment, or other instrument of like nature of any other member of the Department.

13. All members and employees of the Department must promptly pay their just and lawful debts, contracted or incurred while in the service. Failure to do so will be considered cause for suspension or dismissal.

14. No officer, member or employee shall at any time be guilty of any act or omission which impedes, injures or hinders, or tends to impede, injure or hinder, the progress, welfare, discipline, efficiency or good name of this Department.

15. Members of the Department, as a mark of respect, must rise and salute Commissioners and ranking officers of the Department, or any other public officers visiting their quarters. When a ranking officer visits the quarters of a company, all members thereof that may be outside of the house or on the street in the vicinity thereof must immediately return to quarters.

16. The members of the Department must at all times address their superior officers by their proper titles, and in all cases use the word without any abbreviation whatever. The Chief Engineers, Assistant Chief Engineer and Battalion Chiefs, when addressed verbally by any member of the Department must be addressed as "Chief," but when addressed in writing the full title of the officer must be used.

17. Every member of the uniformed force will provide himself with the regulation uniform within thirty days after his appointment, but such uniform must not be worn on duty until it has been inspected and approved by the Battalion Chief. It shall be the duty of said members of the Department to wear the prescribed uniform at all times, except from the time of retiring until 10 o'clock a. m. All members of the Department, while at a fire, shall wear their official badge in a conspicuous place on the left breast of their coat or outer garment, and shall wear their regulation fire hat.

18. Members of the department shall conduct themselves quietly at fires; shouting or boisterous conduct will not be permitted. Water will be turned on by order of a commanding officer and not otherwise. Members who are on the pipe leading into a fire above the ground floor will shut the nozzle off immediately upon connecting the same to the hose.

19. No exchange of badges will be permitted except when it becomes necessary in case of promotion or transfer; nor shall the same be loaned to any person, or used for any but legitimate purposes of the Department.

20. No officer, member or employee shall ride or attempt to ride on any street car on his official badge or uniform and without paying his fare, unless such privilege has been accorded the members by the railroad companies, and then only under such conditions as may be imposed by the said companies.

21. Members of the Department, when resigning, or upon dismissal or suspension must immediately surrender to the commanding officer of their company their official badge, and all other property of the Department that may be in their possession.

22. Members of companies must sleep in their Company houses when on duty, and while so sleeping shall not be unnecessarily disturbed.

23. The hours for meals in the various companies will be designated by the Captain, each man being entitled to one hour at each meal where three meals are taken during the day, or one and one-quarter hours at each meal where only two meals are taken; provided that the total time for all the men of the company at each meal shall not be more than three and one-half hours. The number of men to meals at one time shall be in accordance with these hours, taking into consideration the number of men in the company.

24. Members of companies shall not go beyond the limits of their respective company districts for their meals when on duty, and while absent at meals they must immediately respond to all alarms of fire to which their respective companies respond, either for service or for the purpose of covering-in to other quarters. Nor shall they go beyond the limits of their said company districts for any other purpose while on duty, without first obtaining permission to do so from the Battalion Chief in charge of their respective companies.

25. Members of companies must notify their captain of the address of their eating place and residence and of any change therein, and said officer shall keep a record of these particulars concerning every man under his charge.

26. All uniformed members of the Department, when appearing before the Board of Fire Commissioners for trial or otherwise, must so appear in the full regulation uniform of the Department.

27. No visitors will be allowed in the houses of the Department after 10 o'clock p. m. without permission of the Captain.

28. No member of the Department shall receive any reward or present of any kind for service rendered in the discharge of his duties, without permission of the

Board of Fire Commissioners, and no member shall give or contribute toward the giving of any present or thing of value to any member or officer of superior rank.

29. No officer or member of the Fire Department shall wantonly or maliciously make any false report of any other member, nor fail to report any real violation of the Rules, etc.

30. Department property must not be loaned, sold or given away, but must be carefully protected from waste and abuse.

31. The various companies of the Department shall have and attend such drills as their superior officers may prescribe and the members thereof shall attend such practice drills at the Drill Towers as the Chief Engineer or Drill Masters direct and all the required duties of such drills shall be properly and efficiently performed.

32. No officer or member of any company shall be absent from his company quarters while on duty, without permission, except at meal hours, unless by order of the Chief Engineer.

33. All assignments of officers and of companies for answering alarms and attending fires and the movements of companies in covering-in, shall be made under the direction of the chief Engineer.

34. No work or labor not absolutely necessary shall be performed on Sunday.

35. All members of companies (Drivers and Engineers excepted) will wear the regulation fire hat while going to and returning from alarms of fire and while working thereat.

36. Officers and members of the Department will be governed by the Rules and Regulations, as set forth in the Assignment Book, in responding to alarms of fire, and a strict observance of said rules is required of them.

37. The First Assistant Chief Engineer, Second Assistant Chief Engineer and Battalion Chiefs may suspend any subordinate officer, member or employee of the Department for a violation of any of the rules of the Department, and shall forthwith report in writing such suspension, with the reasons therefor, to the Chief Engineer.

38. All officers, members, and employees of the Department must perform all their required duties therein in a prompt, proper and energetic manner, and continued failure or neglect to do so will be considered as incompetency by the Board of Fire Commissioners.

39. No officer, member or employee shall neglect or refuse to perform any duty or to obey any order of a superior officer, pertaining to matters of the Department.

40. Officers shall call the attention of all members present to any misconduct, occurrence, acts or words which might become the subject of charges before the Commission.

41. It shall be the duty of all members or employees of the Department to take notice of any conduct or action of any member or employee therein which they are in a position to see or any language which they may hear, and which may be prejudicial to the good and welfare of the Department, and said members shall ascertain the true facts and conditions in every case to which their attention may be called, for the purpose of acting as witnesses.

42. False swearing or willfully withholding the truth on the part of members while acting as witnesses in the trial of charges before the Commission will be made the ground for charges and be punished as the Commission may determine.

43. The duties imposed upon members of the Department shall also apply to Substitutes when on duty, and a strict observance of the rules and regulations of the Department will be required of them.

44. Any officer, member or employee violating any of the foregoing rules and regulations of the Department, or any subsequent rules and regulations, which may be adopted by the Board of Fire Commissioners, or any general or special orders or

instructions of the Board of Fire Commissioners or Chief Engineer, or orders of any superior officer, shall upon conviction, be punished by reprimand, fine, suspension or dismissal from the Department, as the Board of Fire Commissioners may determine after a trial.

INSIGNIA OF RANK.

Chief Engineer—Five trumpets, measuring one and three-sixteenths inches each, crossed with the bells outward, and projecting beyond mouthpieces, so as to form a design $1\frac{1}{2}$ inches in diameter, and all to be made of gilt metal and worn on the front of the cap.

First Assistant Chief Engineer—Same as above, with the exception that there shall be but four trumpets.

Second Assistant Chief Engineer—Same as above, with the exception that there shall be but three trumpets.

Battalion Chiefs—Same as above with the exception that there shall be but two trumpets.

Captains of Engines, Chemical Engine and Water Tower Companies—Two trumpets, one three-sixteenth inches long; made of white metal; trumpets placed perpendicularly, bells downward; letter and number designating company on same. To be worn in the center of cap front.

Lieutenants of Engine, Chemical Engine and Water Tower Companies—Same as above, with the exception that there shall be but one trumpet, placed perpendicularly.

Captains of Truck Companies—Two axes, one and three-sixteenth inches long; made of white metal; axes to be placed crosswise; letters and number designating company on same. To be worn in center of cap front.

Lieutenants of Truck Companies—Same as above, with the exception that there shall be but one ax, placed perpendicularly.

Engineers, Drivers, Stokers, Tillermen, Truckmen, and Hosemen—White metal Maltese cross badge, one and five-eighths inches each way, with the Department number of the wearer in figures three-eighths of an inch long, to be worn in the center of the cap front.

REGULATION UNIFORM, S. F. F. D. CHIEF ENGINEER.

COAT to be double breasted, square cut; to button to the neck, with rolling collar made to be worn open or closed; seam in back, raw edge, $\frac{1}{2}$ inch double stitched, two lower, one upper pocket, with scalloped flaps $3\frac{1}{2}$ inches deep at points; two inside cut crosswise; two rows of buttons, 8 in each row, to be placed in pairs. Sleeves to be stitched to a point from $3\frac{1}{2}$ to 6 inches; four buttons on sleeve. Buttons to be gilt and set in with rings. Length to be to the middle of the first finger. Lining to be of heavy Italian cloth and striped sateen sleeve lining.

VEST single-breasted; no collar, raw edge; double-stitched one-half edge; four pockets outside, none inside. The pockets to have scalloped flaps $2\frac{1}{2}$ inches deep at points, $1\frac{1}{4}$ inches between points. Vest to be opened no more than 14 inches from center of back and closed with 6 gilt buttons.

TROUSERS two top, two-hip and one fob or watch pocket; sewed down lap seam $\frac{1}{4}$ of an inch; width of trousers to be 1 inch smaller at bottom than at knee.

SHIRT linen or muslin, with standing collar.

CRAVAT a narrow neck tie or bow of black silk, not less than $\frac{1}{4}$ of an inch in width, tied in a flat knot in front, the ends to extend not more than 3 inches from the knot.

FIRST AND SECOND ASSISTANT CHIEF ENGINEERS AND BATTALION CHIEFS.

Same as above, with the exception that there shall be two rows of buttons, 6 in each row, and sleeves to be stitched to a point from $3\frac{1}{2}$ to 5 inches; four buttons on sleeve of coat.

CAPTAINS AND LIEUTENANTS OF COMPANIES.

Same as above, with the exception that there shall be two rows of buttons, 5 in each row, placed equi-distant to within $8\frac{1}{2}$ inches of bottom of coat. Buttons to be of white metal; no outside pockets; 3 buttons on each sleeve; coat to be made to be worn buttoned up.

VEST same as specified for officers, with the exception that the two upper pockets are finished with welts 1 inch deep.

SHIRTS same as specified below.

ENGINEERS, DRIVERS, STOKERS, HOSEMEN, TILLERMEN AND TRUCKMEN.

COATS to be single breasted, square cut, buttoned close to neck, with six buttons; to be finished raw edges, double-stitched $\frac{1}{2}$ -inch, plain seams, also seam down the center of back. Prussian collar, turned down to $2\frac{1}{2}$ inches deep in center of back, and $2\frac{3}{4}$ inches deep at points in front, no pockets outside, two inside cross-ways. Sleeves to be stitched to a point $3\frac{1}{2}$ inches from edge up to 5 inches, double-stitched; 3 buttons, facing inside, raw edged and single-stitched. Buttons to be of white metal. The length of coat to be to the middle knuckle of first finger.

TROUSERS same as specified for officers.

VEST same as specified for officers, with the exception that the two upper pockets are finished with welts 1 inch deep. All buttons on coat and vest to be fastened in with rings.

SHIRTS blue flannel, collar $4\frac{1}{2}$ inches deep at points, $2\frac{1}{2}$ inches at back when finished; 3 rows of stitching. Collar band $\frac{1}{4}$ inch at front and $1\frac{1}{2}$ inches at back. Breast piece 13 inches long, $2\frac{1}{2}$ inches wide, open $11\frac{1}{2}$ inches; 3 rows of stitching; 4 buttons, and button holes. Yoke 2 points, 3 rows of stitching. Body and sleeves double-stitched. Cuffs open 5 inches; long points, $7\frac{1}{2}$ inches; short points $5\frac{1}{2}$ inches. Two buttonholes, 3 buttons, 3 rows of stitching. Silk to be used in all top stitching and buttonholes. Buttons to be first grade white pearl; 4 holes, 24 line. Buttonholes to be hand-made.

CRAVAT long black tie, ordinary length. All linings must be same as samples in Chief Engineers' office. See plate of coats for all uniform men at Chief Engineer's Office or at headquarters of Chief of Battalions. Sample shirt can be seen at Chief Engineer's Office.

CAPS.

CHIEF ENGINEER, ASSISTANT CHIEF ENGINEERS, BATTALION CHIEFS, CAPTAINS AND LIEUTENANTS OF ENGINE COMPANIES, CAPTAINS AND LIEUTENANTS OF TRUCK COMPANIES.

CAPS to be of regulation Fire Department pattern; made of 20-ounce navy blue cloth, pure indigo dyed, $3\frac{1}{2}$ inches deep, with welt around tip of cap; the welt to cover steel wire; welt of $\frac{1}{8}$ -inch width $\frac{1}{8}$ of an inch above the base of cap; band 1 1-5 inches above base welt; crown above band $1\frac{3}{8}$ inches, cut in four parts with seam in front and back and on each side of cap; visor to be unbound, of plain solid black patent leather 2 inches wide, with round corners; $\frac{1}{2}$ -inch leather chin straps, with leather slides fastened to the cap on each side with brass Fire Department buttons. Captains and

Lieutenants of Engine and Truck Companies, Chemicals and Water Towers buttons to be of white metal. Real mohair black braid on band of cap; inside band of cap to be of solid leather; lining to be of genuine hair cloth, covered with satin, sweat-band to be of dark Japan leather 2 inches wide; two japanned metal eyelets on each side of cap for ventilation. The insignia of office to be of gilt metal in center of front above the welt.

ENGINEERS, DRIVERS, STOKERS, TILLERMEN AND TRUCKMEN.

CAP to be same as above, except that there be no mohair braid on the same and the badge of office and buttons on the side shall be of white metal. Badge to be made in shape of Maltese cross, with the number and monogram of the Department thereon.

All insignia of office and cap devices shall be placed half way between the top of cap and the row of stitching at upper edge of cap band.

Rain covers required for each cap to be made of rubber gossamar to fit the cap.

REGULATION FIRE HELMET.

Chief Engineer—White leather Hat, having a gilded leather front, depending from a giltedge head, and attached to the front of the hat, with the insignia of his rank and the words "Chief Engineer" painted upon it upon a scroll of gold.

First Assistant Chief Engineer—Same as above, with the words "First Assistant Chief" thereon.

Second Assistant Chief Engineer—Same as above, with the words "Second Assistant Chief" thereon.

Battalion Chiefs—Same as above, with the words "Battalion Chief" and number of Battalion district designated thereon.

Captains of Engine Companies—Black leather hats, with eight cones, with number of company and rank of office on white leather front.

Lieutenants of Engine Companies—Same as above.

Hoseman—Black leather hats, with eight cones, and name of company on black front.

Truck Companies—Red and white leather hats, with eight cones.

REPORT
OF THE
BOARD OF FIRE PENSION FUND
COMMISSIONERS.

Office Board of Fire Pension Fund Commissioners,
New City Hall.

San Francisco, July 1st, 1905.

To the Honorable Eugene E. Schmitz,
Mayor of the City and County of San Francisco.

Dear Sir:

In compliance with Article XVI, Section IX, of the Charter of the City and County of San Francisco, the Board of Fire Pension Fund Commissioners herewith present and submit report for the fiscal year ending June 30th, 1905.

ORGANIZATION.

The Board of Fire Pension Fund Commissioners, as now constituted, consist of four members and a Secretary, viz:

H. M. Wreden	Term Expires January 8th, 1909
Thos. W. Finn	Term Expires January 8th, 1908
John J. Barrett	Term Expires January 8th, 1907
J. S. Parry	Term Expires January 8th, 1906

S. W. Nicoll, Secretary of the Board.

RETIRED ON PENSION.

During the year 1904-1905 the following named were granted Pensions according to the terms of the Charter.

Mrs. Sarah Dougherty, Widow of Edward F. Dougherty, Engineer of Engine Co. No. 37. Pensioned October 7th, 1904: Effective September 7th, 1904.

Joseph J. Harrington, Engineer of 5th Alarm Relief Engine Co. No. 1: Pensioned October 21st, 1904: Effective October 1st, 1904.

FIRE COMMISSIONERS

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LIST OF PENSIONERS JUNE 30TH, 1904, TO JUNE 30TH, 1905.

NAME	Pension Effective	Amount Per Quarter
Chapman, John E.....	December 5, 1891.....	\$135.00
Byron, Michael.....	January 9, 1892.....	52.50
Bell, Charles.....	February 14, 1892.....	135.00
O'Neil, John.....	April 23, 1892.....	67.50
Burns, William.....	July 16, 1892.....	135.00
Fleming, P. H.....	October 29, 1892.....	210.00
Johnson, Benjamin.....	December 3, 1892.....	52.50
Finn, D. A.....	January 14, 1893.....	52.50
O'Neill, John.....	February 18, 1893.....	52.50
Brady, James W.....	April 15, 1893.....	52.50
Jackson, John S.....	July 15, 1893.....	210.00
Shine, Cornelius.....	July 29, 1893.....	67.50
Robinet, H. J.....	July 28, 1894.....	52.50
McCue, Hugh.....	February 2, 1895.....	112.50
Ryder, Henry.....	February 2, 1895.....	52.50
Cunningham, William.....	April 13, 1896.....	210.00
Lawrence, B. B.....	February 4, 1897.....	135.00
Kennedy, Hugh.....	May 27, 1897.....	67.50
O'Neill, Edward.....	June 6, 1897.....	52.50
Clements, John.....	August 27, 1897.....	52.50
Grady, James.....	December 16, 1897.....	67.50
Mason, James.....	August 11, 1898.....	210.00
Mulcahy, Wm. H.....	December 15, 1898.....	52.50
McCormick, Patrick.....	February 17, 1899.....	67.50
O'Sullivan, Edward.....	September 14, 1899.....	52.50
Murphy, John J.....	November 9, 1899.....	210.00
Desmond, Felix P.....	November 16, 1899.....	52.50
Sweeney, Mrs. Jennie.....	July 1, 1900.....	120.00
Crummey, John T.....	November 1, 1900.....	120.00
Wolf, Joseph.....	January 10, 1901.....	120.50
Barry, Patrick.....	April 1, 1901.....	150.00
McGibbon, James A.....	March 6, 1902.....	150.00
Mahoney, John J.....	June 1, 1902.....	180.00
Franks, James.....	June 1, 1902.....	150.00
Nagel, John J.....	September 1, 1902.....	150.00
Heffernan, Mrs. Marion.....	October 1, 1902.....	150.00
Cumisky, James.....	November 1, 1902.....	150.00
Conlon, Frank J.**.....	January 6, 1903.....	150.00
Canty, Patrick.....	April 1, 1903.....	150.00
Browne, Robert T.....	April 1, 1903.....	180.00
Callen, Mrs. Annie K.....	May 25, 1903.....	180.00
Bearwald, Mrs. Ray.....	June 1, 1903.....	150.00
Holmes, Mrs. Mary.....	December 1, 1903.....	180.00
Quinn, Hugh.....	December 5, 1903.....	150.00
Morrison, Henry S.....	March 1, 1904.....	150.00
Casserly, Thos. E.....	June 1, 1904.....	150.00
Sawyer, Robert H.....	June 1, 1904.....	180.00
Dougherty, Mrs. Sarah.....	September 7, 1904.....	168.75
Harrington, Joseph J.....	October 1, 1904.....	150.00

**Guardian of Francis J. Cameron, George Cameron and Thomas W. Cameron.

FIRE COMMISSIONERS

DEATHS.

During the fiscal year the following death occurred:

Shine, Cornelius Died August 11, 1904

APPROPRIATION AND EXPENDITURES, FISCAL YEAR, 1904-1905.

Appropriated by the Board of Supervisors, July 1, 1905. \$20,000.00

PENSIONS PAID.

1st Quarter, ending September 30, 1904.	\$5,692.99	
2nd Quarter, ending December 31, 1904.	6,022.50	
3rd Quarter, ending March 31, 1905.	5,981.25	
4th Quarter, ending June 30, 1905.	5,981.25	
Salary of Secretary, July 1, 1904, to June 30, 1905.	600.00	24,277.99

DEFICIT. \$44,277.99

Respectfully submitted,

Board of Fire Pension Fund Commissioners.

S. W. NICOLL, Secretary.

ANNUAL REPORT

Department of Electricity

FISCAL YEAR 1904-1905

San Francisco, September 16, 1905.

To the Honorable E. E. Schmitz,
City and County of San Francisco.

Dear Sir—I have the honor to submit herewith the Sixth Annual Report of the Department of Electricity and the Fortieth for this service for the fiscal year ending June 30th, 1905.

Respectfully submitted,

W. R. HEWITT,
Chief, Department of Electricity

Department of Electricity

ANNUAL REPORT DEPARTMENT OF ELECTRICITY.

During the past fiscal year, the conduit, manhole and standard system for underground District No. 3 was practically completed. An important part of this work was the laying of 10,200 feet of steel and paper conduit, involving the trenching, refilling and paving of 9,500 linear feet of street, including 2,200 square feet of bitumen and concrete work, the construction of 20 manholes and the setting of 36 signal box standards. In this district there were drawn into the ducts 45,500 feet of lead covered cable of various sizes, and ducts and cable were also installed connecting the test house with the central station operating room. The reconstruction of Fourth Street necessitated, in District 4, the laying of 3,900 feet of 3-inch paper duct, the building of 5 manholes and the setting of 5 standards. The Merchants' Exchange Building was connected underground to the overhead system, as were also the Park Police Station and Underwriters' Patrol No. 4 in the overhead districts.

Interior construction involved new and complete wiring for the lighting and bell systems of new 36 Engine House, 4 Fire Patrol House, the Hall of Records, Assessor's Office, Park Police Station and the Alms House. Metal conduit for tapper wires was run in the Merchants' Exchange Building, and fire alarm tappers and registers were installed. Gong, register, telephone and return call-bell equipment was installed in four Battalion Chiefs' headquarters, and 36 engine houses were wired for and equipped with telegraph practice sets. Changes of quarters, burn-outs, etc., necessitated extensive alterations and reconstruction in the quarters of Engines 2, 4, 5, 11, 29, 30 and 32, and in Nos. 1, Truck and 3 Chemical Houses. A general line of repair work, renewals and extensions to increase the efficiency of the lighting and bell systems was carried on during the year in the offices of the Mayor, Auditor, Assessor, Sheriff, Treasurer, Tax Collector, Registrar, Coroner, Civil Service Commission, in the rooms of the Superior Courts and Law Library, and on various premises of the Departments of Health, Public Works, Police and Education. For the above interior construction and repairs there were required: 4,101 electrical Fittings, 4,085 feet of lamp cord, 4,242 feet of flexible tubing, 3,059 feet of iron conduit, 50 pounds of solder, 100 pounds of tape, 20 pounds of fuse wire, 2,082 incandescent lamps, 4,138 feet of moulding, 55,382 feet of rubber covered wire of various sizes, 30 gross of assorted screws, 270 pounds of annunciator wire, 190 pounds of magnet wire, 6,604 cells, of dry batteries and parts of batteries, 6,392 pounds of bluestone and battery material and 2,369 porcelain cleats.

Overhead construction required 18 miles of weatherproof wire, 11,224 pounds of weatherproof copper wire, 3,886 insulators, 2,974 locust pins, 2,426 porcelain knobs, 693 cross-arm braces, 577 cross-arms, 116 break-arms, 7 poles, 153 pounds of solder, 152 pounds of paraffine, 450 rolls of black tape, 99 gallons gasoline, 42 gallons insulating paint and 95 yards of cheese cloth.

The overhead work accomplished during the year consisted of the extension of the signal circuits along the waterfront to connect with twelve new fire alarm boxes recommended by the Harbor Commissioners. No. 5 signal circuit was run out through the Panhandle and Richmond districts in order to relieve signal lines Nos. 11 and 12. No. 6 signal circuit was extended along Ocean Boulevard from K to P streets and along Forty-ninth avenue from H to K for the installation of new fire alarm box 726 at Forty-ninth avenue and P street. No. 4 alarm line was extended out Point Lobos Avenue from Fifth to Twenty-sixth avenue to connect with the new quarters of No. 36 engine, to which point No. 3 tapper was also extended from Point Lobos avenue. No. 2 signal line was extended out San Bruno avenue from Railroad avenue to Leland

avenue, to connect with new fire alarm box 549 in Visitacion Valley. No. 8 signal line was extended from Plymouth avenue to Orizaba avenue for the installation of fire alarm box 576, Ocean View district. No. 12 signal line was extended from Ninth avenue and M street to the Alms House for box 474, and circuit 2, Park Police Station, was built out through the Richmond and Sunset districts to Ocean Beach. There were, in all, 35 new fire alarm boxes installed in the following locations:

- 34 East—opposite Mission
- 36 East—opposite Folsom
- 181 Fifth—Bluxome
- 192 Lombard—Taylor
- 269 Harrison—Spear
- 299 Mission—Fifth
- 319 Broderick—Broadway
- 352 East—opposite Kearney
- 353 Sansome—Chestnut
- 426 Tonquin—Broderick
- 468 Army—York
- 472 Willard Ave.—Belmont Ave.
- 474 Alms House
- 495 Twenty-third—Sanchez
- 497 Twenty-fifth—Diamond
- 549 San Bruno Ave.—Leland Ave.
- 576 Lobos Ave.—Orizaba Ave.
- 584 Ellis—Webster
- 594 Haight—Masonic Ave.
- 595 Masonic Ave.—Piedmont
- 597 Clayton—Parnassas Ave.
- 613 East—opposite Vallejo
- 614 East—opposite Union
- 615 East—opposite Greenwich
- 631 East—opposite Stockton
- 635 California—Powell
- 638 East—opposite Mason
- 639 Union—Taylor
- 646 Sutter—Hyde
- 671 East—opposite Howard
- 692 Folsom—Seventh
- 694 Ninth—Harrison
- 696 Mission—Tenth
- 698 Eleventh—Howard
- 726 Ocean Boulevard—P.

There were also installed as follows 12 new police boxes:

PARK STATIONS.

- 12 H—Seventh Ave.
- 13 N—Ninth Ave.
- 14 H—Nineteenth Ave.
- 33 J—Forty-ninth Ave.
- 223 B—Forty-ninth Ave.
- 222 Forty-eighth Ave.—Cliff Ave.
- 221 Twenty-fifth Ave.—Pt. Lobos
- 215 Twelfth Ave.—Clement
- 214 Fifth Ave.—California
- 213 Cherry—Washington
- 212 Locust—Sacramento
- 51 (Mission Station) Danvers—Eighteenth

To increase the efficiency of the service, there were moved to new locations 31 fire alarm boxes and, by request of the Police Department, 6 police boxes. The tapper and alarm circuits were extended along Twentieth Street, from Folsom to Treat Ave., for No. 4 Patrol's new house, and all necessary equipment installed. In accordance with Ordinance 621, providing protection for linemen and the separation of fire and police signal lines from high tension wires, work was done on Mission Street, from Twenty-ninth to Highland avenue, thence to Holly Park avenue; on Haight from Gough to Stanyan; on Stanyan, from Parnassus avenue to Fulton; thence on Fulton to Seventh avenue; on Point Lobos avenue, from Presidio avenue to Fifth avenue; on Geary street from Devisadero to Presidio avenue; on Lombard street, from Steiner to Baker; on Broadway, from Sansome to East, and on 15th avenue south, from Railroad avenue to San Bruno avenue.

The reconstruction of Fourth street, from Market to Howard, obliged us to vacate the poles in these blocks, and the sixteen signal wires thereon were cleared and new wires run instead from the corner of Geary and Stockton, along Geary to Taylor, thence on Taylor and across Market to Sixth and Mission Streets. In addition, there were 1,460 engine house and emergency repair jobs; 1,500 fire and police box repair jobs; 50 housemover jobs; 1,205 main line and outside local repair jobs attended to. There were run 120 outside local loops and 145 alarm bells were installed by repairers and linemen for the convenience of firemen during meal hours. On the evenings of July 4th, and September 3rd to 10th, on account of the Conclave of Knights Templar, the City Hall dome was illuminated; decorative flag poles being also set up along the line of Market street for the latter occasion.

In connection with shop work, the erection of a switch-board, consisting of 10 sections of marble, was finished in the new central station operating room, 3 sections of which were mounted with all necessary instruments, including motors and connections, a total of 455, and, in preparation for cutting in the underground system, this equipment was completely wired and connected to the terminal strips for 30 signal circuits.

There were made 300 additional instruments, which are ready for mounting on the board. This work involved the manufacture of 33 ammeters, 37 sounders, 36 double-contact relays, 36 registers, 35 box numbers, 66 main line relays, 38 lamp relays, 40 reostats, 44 cam switches, 31 keys and switch, 34 plug switches, 32 test switches, 95 instrument switches, 38 fuse holders, 36 register-driving attachments, 4 motors with bases, 24 circuit breakers and 112 connecting strips—a total of 802.

General shop work consisted of new work and instruments, a total of 1,797, as follows: 66 fire alarm boxes manufactured, 84 municipal police boxes fitted with new telephones, 54 fire alarm box movements, 64 keyless fire alarm boxes and movements for same fitted, 26 municipal police box bells, 55 pony relays, 50 two-point switches, 12 fire alarm relays, 220 inside fire alarm box hinges, 50 inside box locks, 10 fire alarm box keyboards, 15 fire alarm box contacts, 900 fire alarm box keys, 23 new horse-releasing devices, 7 registers fitted with testing attachments, 12 junction boxes, 3 four-point ground switches for police boards, 12 push buttons, 1 fuse test set for shop, 56 number plates for fire alarm and police boxes, 51 terminal strips, 13 register tape take-up reels, 40 police box character wheels, 63 auxiliary fire alarm character wheels, 32 fibre name plates. Two telegraph desks, for the use of Battalion Chiefs in fire code practice, were equipped and installed in 29 engine house and 7 Truck respectively, with the following instruments: 2 single pen registers, 2 relays, 2 sounders, 2 keys, 4 switches and one complete signal box. A fire alarm board was installed in new 36 Engine house with the following instruments: Register and case, take-up reel and guide, circuit relay and case; double contact relay and case, telephone arm extension transmitter, receiver cord and bell, line test strap keys, tapper relays, gong, push buttons, and clock. A new police board was installed at Park Station and mounted with relays, switches, telegraph keys, sounders, drops, megneto bell, transmitter, receiver, galvanometer, buzzer, register, reel, clock, and cam switch.

Painting consisted of 16 principal jobs, embracing 6,120 articles. There were japanned 195 frames, bases and boxes; bronzed, 115 movements, relays, reels, relay cases and bells; lettered, 378 articles; stained, shellaced, varnished or finished, 1,100

articles; together with 126 jobs of cutting and setting glass for lanterns, clocks, register and relay cases and boxes.

During the year, there were 10,395 inspections of electrical construction in and on buildings made, involving the transmission to contractors of more than 2,000 complaints of defective and unsafe equipment. Approvals of completed installations amounted to 3,478. There were checked, figured and approved 1,193 plans of interior wiring installations. The Department received in fees for the inspection work mentioned, \$6,245.65. For fire alarm gong service in business premises, the sum of \$1,279.65 was collected for charges and rentals, and \$1,255.00 for services in connection with house-moving operations.

TABLE NO. 1.

Showing the number of alarms each day and month during the year.

Day of Week	1904						1905						Totals
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	
Monday.....	28	25	18	13	16	13	15	15	14	8	20	19	204
Tuesday.....	20	20	20	14	11	13	7	17	17	9	14	12	174
Wednesday.....	20	13	38	10	10	11	9	13	7	17	18	16	182
Thursday.....	9	17	23	7	7	17	15	5	6	8	11	23	148
Friday.....	29	14	22	11	11	12	18	8	13	12	14	17	181
Saturday.....	18	18	14	15	10	13	7	14	9	17	21	17	173
Sunday.....	26	17	9	13	11	19	17	12	13	12	7	15	171
Totals.....	150	124	144	83	76	98	88	84	79	83	105	119	1233

TABLE NO. 2.

Showing the number of alarms for each hour of the day during the years 1904-1905.

Months	A. M.												Totals
	1	2	3	4	5	6	7	8	9	10	11	12	
1904—July.....	4	5	2	4		1	2	2	3	6	8	7	44
August.....	6	1	2	4					1	6	2	6	28
September..	3	4		4	1	1	4	2	5	5	5	2	36
October....	5	2	3	3		3		3	1	3	5	2	30
November..	4	4	2			3		1	2	3	5	3	27
December..	2	3		3	5	5		1	1	6	5	4	35
1905—January....	3	4	5	1	2	1		2	4	4	4	1	31
February..	6		3	3	2	2		3	1	3	3		28
March.....	3		4	2	2	4	4		2	5	3	2	31
April.....	5	3	5	2	1	2	2	2		1	3	3	29
May.....	3	2	2		1		1	1	4	10	3	9	36
June.....	10		1			1	2	1	4	5	5	7	36
Totals.....	54	28	29	26	14	23	17	18	28	57	51	46	391

Months	P. M.												Totals
	1	2	3	4	5	6	7	8	9	10	11	12	
1904—July.....	14	12	11	11	13	11	11	5	8	2	1	7	106
August.....	9	7	13	11	10	5	11	8	7	5	4	6	96
September..	16	9	17	9	6	11	6	12	4	5	10	3	108
October....	6	3	5	2	4	4	8	4	9	1	4	3	53
November..	6	5	6	2	3	9	3	3	3	3	4	2	49
December..	4	1	7	4	7	4	7	9	3	3	6	8	63
1905—January....	3	6	5	2	4	5	5	4	9	6	2	6	57
February...	3	10	2		7	7	2	8	8	3	3	3	56
March.....	4	7		4	7		4	4	5	2	5	6	48
April.....	5	11	5	5	4	5	4	4	3	3	2	3	54
May.....	3	2	10	7	15	6	3	3	7	3	3	7	69
June.....	6	11	6	7	13	7	7	1	8	7	6	4	83
Totals.....	79	84	87	64	93	74	71	65	74	43	50	58	842

TABLE No. 3.

Showing the number of alarms from each box during the years 1904-1905.

Boxes....	Alarms...	Boxes....	Alarms...	Boxes....	Alarms...	Boxes....	Alarms...	Boxes....	Alarms...	Boxes....	Alarms...	Boxes....	Alarms...
8	3	81	3	158	5	247	1	325	3	412		517	
9	1	82	8	159	2	248		326		413		518	2
13		83	4	161	3	249	1	327	3	414		519	
14	2	84	4	163	1	251	1	328		415		521	
15	4	85	12	164	3	253	1	329		416		522	
16	3	86	3	165		254	1	341	1	417		523	
17	4	87	1	166		255	1	342	3	418		524	1
18	2	89	3	167		256		343		419		525	
19	3	91	5	168	1	257	2	344		422		526	1
21	2	92	2	169		258		345		424		527	
23	2	93	4	172	1	259		346	1	425	1	531	2
24	2	94	15	173	10	261	10	347	2	426	1	532	1
25	9	95	11	174	4	262	3	349	1	431	1	534	
26		96	8	175	3	263	2	351	2	432	1	536	1
27	5	97	3	176		264	1	352	4	433		537	
28	1	98	8	178		265	3	353		435	3	538	
29	1	112	6	179	3	266	1	354	4	436	1	539	3
31	5	113	1	181		267	7	355		451	1	541	
32	8	114	4	182	4	269		356	1	452		542	3
34	4	115	4	183	4	271	2	357	3	453		544	2
35	1	116	1	184	5	272	3	358	4	455	2	545	1
36	3	117	4	185	3	273		359	1	456		546	1
37	3	118	5	186	5	274	4	361		457	3	547	
38	3	119	3	187	2	275	1	362		458	2	549	
39		121	1	188	4	276	1	364	6	459	4	561	2
41	3	122		189	2	277	1	365	3	461	1	562	
42	5	123	3	191	1	278	4	366	2	462	1	563	
43	1	124		192	3	279	2	367	3	463		564	1
45	1	125		193	1	281	3	368	1	466	1	566	2
46	4	126	2	194		282		369		467		571	1
47	10	127	1	195	1	283	1	371		468	1	572	1
48	9	128		196	2	284	7	372	6	471		573	
49		129	1	197	3	285	3	373		472		574	1
51	5	131		198	6	286	3	374		474		576	
52	2	132	1	199		287	1	375	2	476		577	
53	11	133	3	213	1	288	1	376	1	478		578	1
54	5	134		214	1	289	1	377		479	1	584	
56	1	135	7	215	3	291		378	3	481		594	
57	5	136	2	216		293	2	379	1	482		595	
58	3	137	3	217	3	294	7	381		483		597	
59	2	138	3	218	2	295	1	382	3	484	1	613	
61	5	139	4	219		296	1	383		485	3	614	
62	6	142	6	231	1	297	2	384	2	486		615	2
63	6	143	4	232	1	298	5	385		487		631	
64	6	144	2	233	1	299		386	3	488	1	635	
65	8	145	4	234		311	1	387	2	489		638	1
67		146	3	235	3	312		388	1	491		639	
68	10	147	1	236	5	314		389	2	492	3	646	
69	1	148	8	237	4	315	1	391		493		671	
71	6	149	3	238	2	316		392	1	495		692	7
72	2	151	1	239	1	317		393	1	496	1	694	
73	11	152	3	241	5	318	1	394	1	497		696	2
74	1	153		242	1	319		395	1	511		698	1
75	4	154	4	243	2	321	2	396	1	512	1	726	
76	7	155	4	244		322	1	397	1	513	4	727	1
78	10	156	6	245	1	323	1	399		514	3		
79	5	157	8	246	3	324	1	411	1	516	1		
	226		210		122		99		81		49		42

FIRE ALARM BOXES.

Total number in service, 404. Erected during the year, 35.

Box.	Location.	Box.	Location.
8	Montgomery Ave.-Union.	74	Sixteenth-Guerrero.
9	Montgomery Ave.-Vallejo.	75	McAllister-Jones.
12	Front-Washington.	76	Market-Hayes.
13	Davis-Sacramento.	78	Ninth-Howard.
14	Clay-Drumm.	79	Twelfth-Folsom.
15	East opp. Clay.	81	Hayes-Franklin.
16	Pacific-Mason.	82	Fulton-Gough.
17	Montgomery Ave.-Pacific.	83	Oak-Octavia.
18	Sansome-Washington.	84	Market opp. Haight.
19	Davis-Jackson.	85	Hayes-Laguna.
21	Kearny-Sacramento.	86	Market-Eleventh.
23	Clay-Taylor.	87	Hayes-Steiner.
24	Clay-Powell.	89	Grove-Van Ness Ave.
25	Dupont-Jackson.	91	Larkin-Golden Gate Ave.
26	Clay-Battery.	92	Turk-Franklin.
27	Clay-Montgomery.	93	Turk-Jones.
28	Bush-Grant Ave.	94	Ellis-Polk.
29	Pine-Stockton.	95	Taylor-Golden Gate Ave.
31	Sansome-Sacramento.	96	Eddy-Taylor.
32	California-Drumm.	97	McAllister-Polk.
34	Mission-Steuart.	98	Stockton-Ellis.
35	Bush-Montgomery.	112	Post-Grant Ave.
36	Folsom-Steuart.	113	Geary-Stockton.
37	Battery-Bush.	114	Turk-Mason.
38	Market-Second.	115	Ellis-Mason.
39	Howard-Spear.	116	Post-Leavenworth.
41	Sutter-Jones.	117	Post-Taylor.
42	Geary-Mason.	118	Post-Powell.
43	Market-Grant Ave.	119	Taylor-O'Farrell.
45	Ellis-Jones.	121	Vallejo-Jones.
46	Sutter-Kearny.	122	Larkin-Greenwich.
47	Eddy-Powell.	123	Union-Hyde.
48	Geary-Kearny.	124	Larkin-North Point.
49	Stockton-Sutter.	125	Filbert-Jones.
51	Folsom-Main.	126	Hyde-Washington.
52	Howard-Beale.	127	Broadway-Larkin.
53	Third-Townsend.	128	Clay-Leavenworth.
54	Second-Howard.	129	Pacific-Leavenworth.
56	Bryant-Rincon Pl.	131	Jones-Sacramento.
57	Second-Brannan.	132	Pine-Mason.
58	Folsom-Fremont.	133	Bush-Powell.
59	First-Brannan.	134	Pine-Hyde.
61	Third-Howard.	135	Polk-Sutter.
62	Fourth-Mission.	136	Post-Van Ness Ave.
63	Fourth-Harrison.	137	Post-Larkin.
64	Fifth-Howard.	138	California-Larkin.
65	Sixth-Mission.	139	Ellis-Hyde.
67	Harrison-Second.	142	Twentieth-Valencia.
68	Fourth-Brannan.	143	Twenty-second-Mission.
69	Third-Bryant.	144	Seventeenth-Howard.
71	Twelfth-Mission.	145	Twenty-second-Folsom.
72	Mission-Duboce Ave.	146	Sixteenth-Folsom.
73	Seventh-Howard.	147	Twentieth-Howard.

FIRE ALARM BOXES—Continued.

Box	Location	Box	Location
148	Sixteenth-Mission.	233	Twenty-fifth-Folsom.
149	Eighteenth-Folsom.	234	Twenty-fourth-Harrison.
151	Seventh-Berry.	235	Twenty-second-Potrero Ave.
152	Seventh-Brannan.	236	Twenty-sixth-Mission.
153	Seventh-Harrison.	237	Twenty-second-Dolores.
154	Sixth-Bryant.	238	Sixteenth-Potrero Ave.
155	Third-Folsom.	239	Nineteenth-Bryant.
156	Fourth-Berry.	241	Bush-Gough.
157	Fourth-Folsom.	242	Polk-Pierce.
158	Fifth-Folsom.	243	Clay-Scott.
159	Sixth-Folsom.	244	Broderick-O'Farrell.
161	Polk-Jackson.	245	Geary-Steiner.
162	Pacific Ave.-Franklin.	246	Post-Devisadero.
163	California-Franklin.	247	Turk-Scott.
164	Polk-Sacramento.	248	Fulton-Devisadero.
165	Lombard-Van Ness Ave.	249	McAllister-Central Ave.
166	Washington-Gough.	251	Broadway-Octavia.
167	Union-Polk.	253	Union-Laguna.
168	Vallejo-Van Ness Ave.	254	Union-Pierce.
169	Chestnut-Hyde.	255	Vallejo-Buchanan.
172	McAllister-Buchanan.	256	Fillmore-Jackson.
173	Eddy-Buchanan.	257	Fillmore-Chestnut.
174	Turk-Fillmore.	258	Pacific-Ave.-Pierce.
175	Webster-Grove.	259	Bay-Buchanan.
176	Post-Octavia.	261	First-Mission.
178	Geary-Buchanan.	262	Second-Folsom.
179	Ellis-Gough.	263	Main-Bryant.
181	Fifth-Bluxome.	264	California-Front.
182	Sixth-Townsend.	265	Main-Mission.
183	Eighth-Mission.	266	Mission-New Montgomery.
184	Eighth-Folsom.	267	Market-Beale.
185	Tenth-Bryant.	269	Spear-Harrison.
186	Fifth-Bryant.	271	Seventeenth-Church.
187	Eighth-Bryant.	272	Sixteenth-Sanchez.
188	Ninth-Brannan.	273	Eighteenth-Noe.
189	Sixth-Hooper.	274	Twenty-fourth-Guerrero.
191	Mason-Green.	275	Twenty-fourth-Church.
192	Montgomery Ave.-Chestnut.	276	Eighteenth-Guerrero.
193	Lombard-Leavenworth.	277	Twentieth-Castro.
194	Chestnut-Dupont.	278	Twenty-fourth-Castro.
195	Montgomery Ave.-Greenwich.	279	Nineteenth-Mission.
196	Stockton-Greenwich.	281	San Bruno Ave.-Army.
197	Bay-Mason.	282	Virginia Ave.-Prospect Ave.
198	Filbert-Dupont.	283	Twenty-eighth-Church.
199	Montgomery Ave.-North Point.	284	Twenty-ninth-Mission.
213	Bush-Buchanan.	285	Twenty-fifth-Florida.
214	Sutter-Pierce.	286	Twenty-fourth-York.
215	Washington-Webster.	287	Twenty-ninth-Sanchez.
216	Sacramento-Fillmore.	288	California Ave.-Powell Ave.
217	Pine-Devisadero.	289	Folsom-Precita Ave.
218	Bush-Fillmore.	291	California-Leavenworth.
219	Green-Fillmore.	293	Stockton-Washington.
231	Twenty-fourth-Howard.	294	Dupont-California.
232	Twenty-third-Valencia.	295	Broadway-Powell.

FIRE ALARM BOXES—Continued.

Box	Location	Box	Location
296	Pine-Kearny.	379	Geary-Hyde.
297	Powell-O'Farrell.	381	Haight-Buchanan.
298	Third-Mission.	382	Fillmore-Waller.
299	Fifth-Mission.	383	Waller-Pierce.
311	Broadway-Webster.	384	Webster-Oak.
312	Jackson-Laguna.	385	Haight-Scott.
314	California-Laguna.	386	Oak-Devisadero.
315	Jackson-Baker.	387	Hayes-Broderick.
316	Vallejo-Scott.	388	Haight-Baker.
317	Clay-Buchanan.	389	South Broderick-Duboce Ave.
318	Jackson-Devisadero.	391	Ashbury-Frederick.
319	Broderick-Broadway.	392	Page-Central Ave.
321	California-Pierce.	393	Buena Vista Ave.-Central Ave.
322	Pine-Baker.	394	Page-Cole.
323	Sutter-Presidio Ave.	395	Haight-Stanyan.
324	Sacramento-Broderick.	396	Stanyan-Parnassus Ave.
325	California-Presidio Ave.	397	Oak-Ashbury.
326	Post-Baker.	399	Frederick-Cole.
327	Pt. Lobos Ave.-Parker Ave.	411	Willard-Golden Gate Ave.
328	Pt. Lobos Ave.-Wood.	412	Pt. Lobos Ave.-First Ave.
329	Ninth Ave.-"C" street.	413	Clement-Seventh Ave.
341	Ellis-Pierce.	414	Lake-Seventh Ave.
342	Golden Gate Ave.-Octavia.	415	Clement-Twelfth Ave.
343	Fillmore-Fulton.	416	Fulton-Stanyan.
344	McAllister-Pierce.	417	Fulton-Sixth Ave.
345	Hayes-Central Ave.	418	Pt. Lobos Ave.-Fifth Ave.
346	Broderick-Golden Gate Ave.	419	California-Fourth Ave.
347	Eddy-Devisadero.	422	Octavia-Greenwich.
349	Clayton-Fell.	424	Union-Devisadero.
351	Broadway-Montgomery.	425	Baker-Greenwich.
352	Bay-Kearny.	426	Baker-Jefferson.
353	Sansome-Chestnut.	431	Cherry-Clay.
354	Broadway-Battery.	432	Washington-Walnut.
355	Battery-Union.	433	California-Maple.
356	Sansome-Greenwich.	435	Clay-Spruce.
357	Kearny-Green.	436	Jackson-Maple.
358	East opp. Pacific.	451	Mission-Highland Ave.
359	Vallejo-Sansome.	452	Cortland Ave.-North Ave.
361	Guerrero-Duboce Ave.	453	Twenty-sixth-Sanchez.
362	Fourteenth-Noe.	455	Twenty-fourth-Douglass.
364	Fourteenth-Howard.	456	Twenty-second-Noe.
365	Fourteenth-Harrison.	457	Twentieth-Church.
366	Nineteenth-Diamond.	458	Army-Guerrero.
367	Seventeenth-Douglass.	459	Randall-Chenery.
368	Market-Church.	461	Twenty-first-Bryant.
369	Eighteenth-Danvers.	462	Twenty-third-Vermont.
371	Sutter-Mason.	463	Alabama-Montcalm.
372	Geary-Jones.	466	Twenty-fifth-Kansas.
373	Bush-Taylor.	467	Seventeenth-Bryant.
374	Pine-Jones.	468	Army-York.
375	Eddy-Leavenworth.	471	Parnassus Ave.-Second-Ave.
376	McAllister-Hyde.	472	Willard-Belmont-Ave.
377	O'Farrell-Leavenworth.	474	Alms House.
378	O'Farrell-Larkin.	476	Ninth Ave.-"K" St.

FIRE ALARM BOXES—Continued.

Box	Location	Box	Location
478	Eighteenth Ave.-"H" St.	541	San Bruno Ave.-Fifteenth Ave., So.
479	Tenth Ave.-"M" St.	542	Cortland Ave.-Nevada Ave.
481	Pt. Lobos Ave.-Ninth Ave.	544	Crescent Ave.-Andover Ave.
482	California-Tenth Ave.	545	R. R. Ave.-Thirty-second Ave. So.
483	Lake-Thirteenth Ave.	546	San Bruno Ave.-Silver Ave.
484	California-Twenty-first Ave.	547	San Bruno Ave.-Paul Ave.
485	Pt. Lobos Ave.-Twenty-second Ave.	549	San Bruno Ave.-Leland Ave.
486	Pt. Lobos Ave.-Thirty-second Ave.	561	Mission-Silver Ave.
487	Second Ave.-"B" St.	562	Brazil Ave.-Lisbon.
488	Cliff Ave.-Merry Way.	563	Mission-Onondaga Ave.
489	Forty-ninth Ave.-"B" St.	564	Mission Bosworth.
491	Fifteenth-Castro.	566	Mission-Sickles.
492	Seventeenth-Castro.	571	Chenery-Diamond.
493	Seventeenth-Uranus.	572	Sunnyside Ave.-Baden.
495	Twenty-third-Sanchez.	571	Sunnyside Ave.-Foerster.
496	Twenty-sixth-Hoffman Ave.	574	San Jose Ave.-Ocean Ave.
497	Twenty-fifth-Diamond.	576	Lobos Ave.-Orizaba Ave.
511	Kansas-Alameda.	577	Ocean Ave.-Faxon Ave.
512	Fourth-Kentucky.	578	Plymouth Ave.-Sagamore.
513	Eighteenth-Kentucky.	584	Ellis-Webster.
514	Twentieth-Michigan.	594	Haight-Masonic Ave.
516	Twenty-second-Georgia.	595	Masonic Ave.-Piedmont.
517	Twenty-second-Kentucky.	597	Clayton-Parnassus Ave.
518	Twentieth-Connecticut.	613	East opp. Vallejo.
519	Eighteenth-Mississippi.	614	East opp. Union.
521	Seventeenth-Carolina.	615	East opp. Greenwich.
522	Nineteenth-Vermont.	621	East opp. Stockton.
523	Twenty-fifth-Iowa.	635	Powell-California.
524	Army-Missouri.	638	East opp. Mason.
525	Utah-Mariposa.	639	Union-Taylor.
526	Seventh-Sixteenth Sts.	646	Sutter-Hyde.
527	Seventh-Irwin.	671	East opp. Howard.
531	Kentucky-First Ave. So.	692	Seventh-Folsom.
532	Sixth Ave. So.-"M" St.	694	Ninth-Harrison.
534	Sixth Ave. So.-"Q" St.	696	Tenth-Mission.
536	R. R. Ave.-Tenth Ave. So.	698	Eleventh-Howard.
537	Fifteenth Ave. So.-"Q" St.	726	Forty-seventh Ave.-"I" St.
538	Twelfth Ave. So.-"P" St.	727	Forty-ninth Ave.-"K" St.
539	R. R. Ave.-Eighteenth Ave. So.		

ALARMS.

The number of alarms for the fiscal year 1904-5 is as follows:

First.....	789
Second.....	33
Third.....	7
Direct.....	404
Total.....	1,233

EXHIBIT No. 2.
INSPECTION REPORT FOR FISCAL YEAR 1904-1905.

MONTHS	Inspected	Approved.....	Approved Plans	Pole Permits.....	Housemover Permits
1904					
July.....	709	270	138	14	2
August.....	912	312	105	22	7
September.....	964	243	87	11	1
October.....	1,230	397	71	12	3
November.....	1,139	402	83	23	3
December.....	1,081	386	77	21	2
1905.					
January.....	944	291	84	34	2
February.....	959	324	104	14	3
March.....	756	269	116	23	4
April.....	567	218	102	40	12
May.....	492	179	120	27	6
June.....	642	187	106	15	8
	10,395	3,478	1,193	256	50

EXHIBIT No. 3.

MONEYS RECEIVED DURING THE FISCAL YEAR 1904-1905.

	Inspection Ordinance No. 787...	Gong's Ordinance No. 698	Housemovers Ordinance No. 1026	Total.....
1904.				
July.....	\$540.05	\$184.20	\$50.00	\$724.25
August.....	532.15	38.30	155.00	725.45
September.....	534.80	142.23	25.00	702.03
October.....	687.70	39.50	75.00	802.20
November.....	767.45	133.65	.....	901.10
December.....	623.20	46.50	50.00	719.80
1905.				
January.....	564.70	124.25	50.00	738.95
February.....	459.55	44.77	75.00	579.32
March.....	483.95	150.00	100.00	733.95
April.....	557.65	116.05	350.00	1,023.70
May.....	280.45	147.30	125.00	552.75
June.....	214.00	112.53	200.00	526.53
Total.....	\$6,245.65	\$1,279.38	\$1,255.00	\$8,780.03

EXHIBIT No. 5.

ANNUAL STATEMENT FISCAL YEAR 1904-1905.

PURPOSE	Amount of Appropriation	Amount of Expenditure	Amount of Cr. Balance
Maintenance and Salaries.....	\$50,000.00	\$49,996.37	3.63
Underground Work.....	35,000.00	34,999.42	.58
Complying with Ordinance 621.....	8,000.00	7,997.44	2.56
Recorder's Office.....	1,100.00	1,084.90	15.10
Assessor's Office.....	400.00	397.34	2.66
Total.....	\$94,500.00	\$94,475.47	\$24.53

EXHIBIT
DETAILED SUMMARY OF

	Battery Material.....	Bronze Castings.....	Drugs and Chemicals.....	Electric Light Fittings.....	Horse Expense.....	Instruments.....	Iron Castings.....	Line Material.....	Lumber.....	Paints and Oils.....	Shop Supplies.....
1904											
July..	\$176.86		\$31.30	\$1.46	\$110.50			\$33.96	\$91.00	\$2.45	\$66.26
Aug..	118.69	5.88		81.91	133.25			41.64	214.10	53.05	51.89
Sept..	15.20	204.61		22.16	159.25			98.77	119.70	15.25	5.03
Oct..	50.88	28.12		4.09	153.60			22.17	99.25	60.38	21.51
Nov..	64.41	27.29		182.00	104.00	2.40		103.01	57.75	15.55	46.94
Dec... 1905	143.50	35.82	.72	156.09	187.70	68.22		69.39	63.65	26.56	115.03
Jan..	159.81	11.54		123.85	204.50	64.81	23.51	18.39		6.18	130.00
Feb... 1906	158.24	.91	19.20	28.67	129.15	3.31		49.62	37.70	7.95	41.44
Mar..	65.18	94.38		78.93	139.50	33.18		21.69	9.00	1.23	64.78
April..	50.80	.69		34.39	152.00	25.00		58.25		13.33	11.36
May... 1907	102.69	12.69	13.30	8.93	167.85	11.50	14.26	35.03		21.08	7.95
June..	51.25				113.00			12.02		4.70	2.29
	\$1157.51	\$421.93	\$64.52	\$722.48	\$1754.30	\$208.42	\$37.77	\$563.94	\$692.15	\$227.71	\$564.48

No. 4.

EXPENSE—BY MONTHS.

Tools and Hardware	Miscellaneous	Underground Supplies	Wagon Repairs	Wire	Cable	Bitumen	Incandescent Lamps	Salaries	Total
\$15.53	\$32.38	\$42.98	.....	.....	.....	\$26.01	\$33.75	\$6,950.55	\$7,614.99
3.89	39.82	132.63	2.25	164.52	.....	.....	3.60	8,243.95	9,291.07
.....	8.00	225.48	.....	388.28	.....	187.70	2.61	7,959.95	9,411.99
19.91	54.15	207.50	347.50	166.13	.....	37.45	33.75	7,709.75	9,016.14
57.52	64.06	748.25	.....	559.23	.....	260.00	.....	6,482.75	8,775.16
2.70	73.18	519.56	5.35	459.69	3,210.50	37.40	61.35	5,390.25	10,626.57
3.13	43.68	12.38	2.25	280.57	.....	.....	95.86	5,853.15	7,033.61
.....	72.32	.....	65.50	118.34	1,670.50	.....	75.75	6,167.25	8,645.85
1.00	24.05	8.41	.....	103.43	1,196.00	.....	33.75	6,089.75	7,964.26
2.87	29.31	66.44	9.65	132.01	.....	35.30	47.25	5,752.10	6,420.75
.....	14.16	71.46	14.50	198.65	.....	.....	33.75	4,654.30	5,382.10
16.00	51.44	9.44	1.00	24.69	.....	10.40	6.75	3,981.00	4,292.98
\$122.55	\$506.55	\$2,044.53	\$448.00	\$2,595.45	\$6,077.00	\$603.26	\$428.17	\$75,234.75	\$94,475.47

Department of Elections' Report

FOR THE

Fiscal Year beginning July 1st, 1904, and ending
June 30th, 1905.

San Francisco, June 30, 1905.

To the Honorable Eugene E. Schmitz,

Mayor of the City and County of San Francisco.

Dear Sir: In compliance with Article XVI, Section 9, of the Charter of the City and County of San Francisco, the Board of Election Commissioners herewith present their annual report for the fiscal year ending June 30, 1905.

Two elections were held during the past fiscal year; a Primary Election, August 9, 1904, and a general Election November 8, 1904.

At the General Election held November 8, 1904, the forty voting machines purchased by the Board of Election Commissioners were used. We take pleasure in reporting to your honor that the precincts to which the voting machines were assigned, very little difficulty was encountered, and the entire election was satisfactorily conducted.

The efficiency of the voting machines over the old style of tallying was effectively demonstrated. The returns of the forty precincts were filed and tabulated by the Registrar of Voters within two hours after the close of the polls. 15,594 votes were cast on the voting machines.

Fifteen hours after the close of the polls the last paper ballot precinct was returned, and it was necessary to send assistance in order to accomplish that result.

The largest number of votes cast in any one precinct was 497.

The majority of the voters found no difficulty in the use of the machines. The first trial of the voting machine in San Francisco was an unqualified success, and if anything was demonstrated in this election, it was the practicability of voting machines.

The report also includes the financial statement of this department, together with a statement of the nativity of all registered voters; also a statement showing the ages, and a statement showing the occupations of all registered voters. Also a table showing date of elections, number of precincts, registration and vote polled since the adoption of the "Act to regulate the registration of voters and secure the purity of Elections, approved March 18, 1878." Also a summary of the votes cast at the primary election held Aug. 9th, 1904, and a summary of the votes cast for each candidate voted for, and each constitutional amendment and proposition voted upon, at the General Election held Tuesday, November 8, 1904.

Respectfully,

JAMES A. DEVOTO, President,
ROBERTS W. ROBERTS,
ELMORE C. LEFFINGWELL,
THOMAS MAGUIRE,
A. W. VOORSANGER,

Board of Election Commissioners.

GEO. P. ADAMS,

Registrar of Voters and Secretary of
the Board of Election Commissioners.

STATEMENT OF EXPENDITURES FOR THE FISCAL YEAR ENDING JUNE
30th, 1905.

Salary, Commissioners.....	5,000.00	
Salary, Registrar.....	2,400.00	
Salary, Deputies, Clerks.....	36,021.07	
Advertising.....	1,602.05	
Ballot Paper.....	991 50	
Election Booths.....	6,185.54	
Polling Places.....	2,007.50	
Printing Index.....	3,494.01	
Printing Sample and Official Ballots.....	885.00	
Rubber Stamps.....	38.30	
Election Printing.....	8,923.89	
Election Stationery.....	1,927.25	
Voting Machines (Cost of 40 Machines).....	26,500.00	
Voting Machines, Expenses.....	1,457.65	
Delivery Supplies.....	307.00	
Election Officers, Primary.....	2,880.00	
Election Officers, General Election.....	21,920.00	
Lamps, Chairs, Etc.....	1,667.36	
Carriage Hire.....	550.50	
Telephone Service (General Election).....	75.00	
Miscellaneous Office.....	974.23	
Precinct Registration.....	15,920.00	
		<hr/>
Total Expenditures 1904-1905.....		\$141,727.85
Surplus.....		272.15
Appropriation.....		\$142,000.00

TABLE.

Showing date of Election, Number of Precincts, the Total of each General Registration and of votes cast at each Election under the "Act to Regulate the Registration of Voters and Secure the Purity of Elections," approved March 18, 1878, and Charter adopted January 26, 1899.

June 19, 1878.....	136		27,098	Delegates to Const'al Convention
May 7, 1879.....	136		38,034	Adoption New Constitution
September 3, 1879....	136	44,764	41,575	General
March 30, 1880.....	136		30,877	Freeholders
September 8, 1880....	133		23,398	Charter
November 2, 1880....	152	43,775	41,292	General-Presidential
September 7, 1881....	152		33,216	Municipal
November 7, 1882 ...	152	42,135	39,102	General
March 3, 1883.....	152		18,764	Charter
March 18, 1884.....			2,655	Assemblyman
November 4, 1884....	164	50,542	47,535	General-Presidential
November 2, 1886....	176	48,792	45,716	General
April 12, 1887.....	176		25,959	Amendments and Charter
November 6, 1888....	176	58,549	55,313	General-Presidential
November 4, 1890....	310	59,770	55,565	General
November 8, 1892....	275	67,849	60,790	General-Presidential
November 6, 1894....	293	68,039	61,548	General
November 3, 1896....	313	72,992	61,820	General-Presidential
December 27, 1897....	94	72,782	26,202	Freeholders
May 26, 1898.....	94	73,140	26,969	Charter
November 8, 1898....	303	62,965	55,275	General
August 8, 1899.....	106	62,410	32,521	Primary
November 7, 1899....	303	71,786	51,965	Municipal
December 27, 1899....	73	70,681	29,972	Bond, "Parks"
December 29, 1899....	73	70,726	22,331	Bond, "Sewers, etc."
November 6, 1900....	303	73,633	65,161	General-Presidential
August 13, 1901.....	106	76,192	22,939	Primary.
November 5, 1901....	303	77,890	53,746	Municipal
August 12, 1902.....	113	51,726	28,697	Primary
November 4, 1902....	320	70,716	61,091	General-Gubernatorial
December 2, 1902....	113	70,764	26,612	Bond, "Geary Street Railroad"
December 4, 1902....	113		14,271	Amendments to Charter
August 11, 1903.....	120	73,280	26,039	Primary
September 29, 1903...	120	73,540	27,308	Sewer, etc., Bonds
October 8, 1903.....	120	73,702	25,276	Street R. R. Bonds
November 3, 1903....	320	79,684	59,824	Municipal
May 3, 1904.....	120	32,721	9,384	Primary
August 9, 1904.....	120	50,708	18,141	Primary
*November 8, 1904....	284	81,576	67,770	General-Presidential

* 40 Voting Machines used.

STATEMENT SHOWING NATIVITY OF REGISTERED VOTERS DECEMBER
31, 1904.

District	Native	Foreign	Total
28	2,284	1,972	4,256
29	2,781	2,001	4,782
30	2,904	1,770	4,674
31	2,610	1,862	4,472
32	2,613	1,862	4,475
33	1,799	1,498	3,297
34	2,732	1,675	4,407
35	2,924	1,363	4,287
36	3,149	1,555	4,704
37	3,971	1,575	5,546
38	3,746	1,698	5,444
39	2,724	1,480	4,204
40	2,724	1,242	3,966
41	2,553	1,271	3,824
42	3,997	1,448	5,445
43	3,645	1,237	4,882
44	3,235	1,862	5,097
45	1,906	1,703	3,609
	52,297	29,074	81,371

SUMMARY.

Of the votes polled at the Primary Election held Tuesday, the ninth day of August, A. D. 1904, for delegates to the Republican State and District and Local Conventions; Democratic State and District and Local Conventions; Socialist State and District and Local Conventions; Prohibition State and District Conventions; and Union Labor State and District and Local Conventions.

Assembly District	Republican	Democratic	Socialist	Prohibition	Union Labor	Total Vote.....
Twenty-eighth.....	271	494	26		179	970
Twenty-ninth.....	273	403	32		234	942
Thirtieth.....	209	506	17		349	1,081
Thirty-first.....	180	439	12	1	146	778
Thirty-second.....	1,058	396	20	1	24	1,499
Thirty-third.....	492	259	8		27	786
Thirty-fourth.....	336	381	11	1	46	775
Thirty-fifth.....	881	250	3	4	14	1,151
Thirty-sixth.....	1,060	258	27	3	69	1,417
Thirty-seventh. " "	369	623	11	2	43	1,048
Thirty-eighth " "	424	441	17		37	919
Thirty-ninth " "	1,031	250	15	3	61	1,360
Fortieth " "	366	374	4	1	9	754
Forty-first " "	302	361	8		55	726
Forty-second " "	425	381	19	2	66	893
Forty-third " "	596	424	4	1	24	1,049
Forty-fourth " "	420	535	14	1	35	1,005
Forty-fifth " "	396	564	6		21	987
Total.....	9,089	7,339	254	20	1,439	18,141

SUMMARY.

OF THE VOTES CAST FOR EACH CANDIDATE VOTED FOR AND EACH
CONSTITUTIONAL AMENDMENT AND PROPOSITION VOTED
UPON AT THE GENERAL ELECTION HELD NOVEMBER 8, 1904.

PRESIDENTIAL AND VICE-PRESIDENTIAL ELECTORS.

William S. Wood (R).....	39,816	Joseph Lawrence (S).....	7,250
Ulysses S. Grant (R).....	39,755	H. C. Tuck (S).....	7,193
Edward Sweeney (R).....	39,678	L. E. Leonard (S).....	7,300
Charles M. Hammond (R).....	39,648	J. G. Hurst (S).....	7,195
Francis M. Smith (R).....	39,626	Thomas Booth (S).....	7,187
William J. Dingee (R).....	39,572	Oswald Seifert (S).....	7,186
George H. Pippy (R).....	39,534	Carl Bracher (S).....	7,181
Morris B. Harris (R).....	39,566	G. S. Brower (S).....	7,175
Charles J. Walker (R).....	39,500	W. A. Corey (S).....	7,166
Richard Melrose (R).....	39,458	G. W. Woodbey (S).....	7,151
John Garber (D).....	18,034	Charles T. Clark (P).....	334
Edward White (D).....	18,032	Chas. J. Hall (P).....	333
J. Ross Clark (D).....	17,992	William O. Clark (P).....	330
Thomas Bair (D).....	17,969	Joel G. Wright (P).....	336
James G. Maguire (D).....	18,027	Albert H. Southwick (P).....	331
A. F. Jones (D).....	17,951	Adam C. Bane (P).....	350
Frank J. Sullivan (D).....	18,045	John A. B. Wilson (P).....	338
Eugene Germain (D).....	17,912	Joel H. Smith (P).....	331
W. M. S. Beede (D).....	17,870	Joseph E. McComas (P).....	334
J. W. Baineberg (D).....	17,847	William T. Eddy (P).....	329
Scattering.....	9		

ASSOCIATE JUSTICE SUPREME COURT.

Unexpired Term.

William G. Lorigan (R).....	35,090	Herman G. Walker (S).....	5,175
M. T. Dooling (D).....	18,293	James H. Blanchard (P).....	422
Scattering.....	1		

REPRESENTATIVE IN CONGRESS.

4th Congressional District.

Julius Kahn (R).....	20,012	William Costley (S).....	2,267
Edward J. Livernash (D-U. L.) ..	12,812	Herbert R. Chapin (P).....	135
Scattering.....	1		

REPRESENTATIVE IN CONGRESS.

Fifth Congressional District.

E. A. Hays (R).....	14,797	George B. Pratt (P).....	103
William J. Wynn (D).....	12,277	Charles J. Williams (U. L)	862
F. R. Whitney (S).....	1,775	Scattering.....	1

STATE SENATOR.

Seventeenth Senatorial District.

Frank A. Markey (R-U. L)	3,183	G. F. Styche (S).....	748
Joseph M. Plunket (D).....	2,637		

STATE SENATOR.

Nineteenth Senatorial District.

Richard J. Welch (R-U. L).....	4,455	George Williams (S).....	443
Joseph Holle (D).....	2,282		

STATE SENATOR.

Twenty-first Senatorial District.

Edward I. Wolfe (R).....	5,924	A. C. Haskins (S).....	424
Dennis W. Barry (D-U. L).....	2,550		

STATE SENATOR.

Twenty-third Senatorial District.

George B. Keane (R-U. L).....	4,522	Fred Ficken (S).....	613
Abner M. McMahon (D).....	2,131	Daniel H. Skillin (T. P).....	334

STATE SENATOR.

Twenty-fourth Senatorial District—Unexpired Term.

Philip J. Haskins (R).....	4,680	John P. Byrne (D-U. L)	2,147
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STATE SENATOR.

Twenty-fifth Senatorial District.

John H. Nelson (R).....	4,080	Herbert H. Mann (S).....	407
Scattering.....	4		

MEMBER OF THE ASSEMBLY.

Twenty-eighth Assembly District.

Wm. Jas. Mindham (R-U. L).....	1,428	C. E. Hallenquist (S).....	317
S. B. Nolan (D).....	869	Charles R. Franklin (T. P).....	302

MEMBER OF THE ASSEMBLY.

Twenty-ninth Assembly District.

John A. Cullen (R-U. L).....	1,946	J. J. McKelvey (S).....	439
Patrick Moriarity (D).....	1,010		

MEMBER OF THE ASSEMBLY.

Thirtieth Assembly District.

Francis McNamama (R).....	1,626	Timothy Ryan (U).....	587
Edward J. Twomey (D).....	938	Thomas R. Mann (T. P).....	68
Richard Corbett (S).....	351		

MEMBER OF THE ASSEMBLY.

Thirty-first Assembly District.

Jeremiah Lucey (R).....	1,737	Hugo Lotzin (S).....	426
Timothy J. Kenney (D).....	880	Chas. A. Siskron (U. L).....	403

MEMBER OF THE ASSEMBLY.

Thirty-second Assembly District.

Patrick J. Boyle (R).....	1,700	William Schlothan (S).....	267
George L. Flanagan (D).....	764	Jno. J. Hennessey (U. L).....	869

MEMBER OF THE ASSEMBLY.

Thirty-third Assembly District.

Fred J. Meincke (R).....	1,368	Fred E. Dean (S).....	278
Mathew J. Kerrigan (D-U. L) ...	1,040	Wm. H. Skeirett (T. P).....	37

MEMBER OF THE ASSEMBLY.

Thirty-fourth Assembly District.

Fred V. Severence (R).....	2,003	Clarence E. Ayer (I).....	122
Joseph B. McCloskey (D-U. L) ...	1,296	Scattering.....	1
Solomon Orloff (S).....	242		

MEMBER OF THE ASSEMBLY.

Thirty-fifth Assembly District.

Edward F. Treadwell (R).....	1,970	Andrew Schornitzer (S).....	179
Joseph A. Clifford (D-U. L).....	1,351	Scattering.....	1

DEPARTMENT OF ELECTIONS

MEMBER OF THE ASSEMBLY.

Thirty-sixth Assembly District.

Eugene F. Pfaeffle (R).....	1,928	A. W. Castner (S)	319
Chas. Fleming (D).....	1,174	Edward J. Deaver (U. L)	265

MEMBER OF THE ASSEMBLY.

Thirty-seventh Assembly District.

Fred C. Jones (R).....	2,886	George F. Arthur (S).....	206
Jeremiah H. Dillon (D-U. L).....	1,466		

MEMBER OF THE ASSEMBLY.

Thirty-eighth Assembly District.

Samuel H. Beckett (R).....	2,352	A. Froomberg (T. P)	430
Charles M. Etique (S).....	229	Scattering.....	2

MEMBER OF THE ASSEMBLY.

Thirty-ninth Assembly District.

Thomas E. Atkinson (R-U. L)....	1,441	Chris D. Mues (S).....	163
Edward A. Kenny (D).....	718	Edwin J. McMurray (I).....	1,121

MEMBER OF THE ASSEMBLY.

Fortieth Assembly District.

Gus Hartman (R).....	2,082	Oliver Everett (S).....	135
David S. Hirshberg (D).....	1,037		

MEMBER OF THE ASSEMBLY.

Forty-first Assembly District.

Nathan C. Coghlan (R).....	2,013	E. V. Fleury (S).....	99
Peter Crowley (D-U. L).....	840		

MEMBER OF THE ASSEMBLY.

Forty-second Assembly District.

George A. McGowan (R).....	2,141	Edward J. Kirwan (U. L).....	37
Walter C. Farnham (D).....	900	Geo. William Lewis (T. P).....	316
Albert M. Harrell (S).....	250		

MEMBER OF THE ASSEMBLY.

Forty-third Assembly District.

Marc Anthony (R).....	2,282	J. W. Spencer (U. L).....	156
Thomas E. Hayden (D).....	848	Scattering.....	1
John Messer (S).....	172		

MEMBER OF THE ASSEMBLY.

Forty-fourth Assembly District.

Mel Vogel (R).....	2,234	Wm. H. Gadding (S).....	234
Charels Edelman (D).....	953		

MEMBER OF THE ASSEMBLY.

Forty-fifth Assembly District.

Louis Strohl (R).....	1,625	George Nesbit (S).....	144
Joseph Silva (D).....	1,052		

JUDGES OF THE SUPERIOR COURT.

Frank H. Kerrigan (R).....	37,411	William E. White (D).....	16,004
James L. Gallagher (R-U. L).....	25,217	Charles T. Conlon (D-U. L)	27,822
Daniel W. Burchard (R-U. L)	23,160	Robert Lutge (S)	4,280
James M. Troutt (R).....	31,278	Charles B. Kiler (S).....	4,355
Frank J. Murasky (D-U. L).....	38,845	J. C. Wesley (S)	4,134
James M. Seawell (D).....	32,820	Louis Giller (S).....	4,119
Scattering.....	3		

PROPOSITION.

San Francisco Sea Wall Act.

For the Proposition.....	32,963	Against the Proposition.....	1,611
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CONSTITUTIONAL AMENDMENTS.

For Amendment No. 2.....	23,876	For Amendment No. 20.....	14,952
Against Amendment No. 2.....	5,180	Against Amendment No. 20.....	13,602
For Amendment No. 4.....	16,933	For Amendment No. 17.....	17,902
Against Amendment No. 4.....	14,094	Against Amendment No. 17.....	9,019
For Amendment No. 11.....	16,561	For Amendment No. 26.....	14,418
Against Amendment No. 11.....	14,169	Against Amendment No. 26.....	12,278

STATEMENT SHOWING NATIVITY OF REGISTERED VOTERS,
DECEMBER 31, 1904.

NATIVE

Alabama.....	109	Missouri.....	1,097
Alaska.....	5	Montana.....	28
Arizona.....	33	Nebraska.....	133
Arkansas.....	76	Nevada.....	660
California.....	27,932	New Hampshire.....	254
Colorado.....	103	New Jersey.....	516
Connecticut.....	356	New Mexico.....	8
Delaware.....	56	New York.....	4,965
District of Columbia.....	109	North Carolina.....	113
Florida.....	23	North Dakota.....	13
Georgia.....	112	Ohio.....	1,715
Hawaii.....	51	Oregon.....	442
Idaho.....	41	Pennsylvania.....	1,793
Illinois.....	1,740	Rhode Island.....	198
Indiana.....	753	South Carolina.....	80
Indian Territory.....	4	South Dakota.....	18
Iowa.....	858	Tennessee.....	269
Kansas.....	337	Texas.....	211
Kentucky.....	488	Utah.....	87
Louisiana.....	328	Vermont.....	262
Maine.....	833	Virginia.....	347
Maryland.....	411	Washington.....	140
Massachusetts.....	2,182	West Virginia.....	108
Michigan.....	741	Wisconsin.....	710
Minnesota.....	342	Wyoming.....	17
Mississippi.....	90	Total.....	52,297

FOREIGN.

Native.

Argentine Republic.....	2	Italy.....	1,109
At sea.....	28	Japan.....	7
Australia.....	261	Mexico.....	92
Austra-Hungary.....	949	Morocco.....	1
Belgium.....	92	New Zealand.....	53
Brazil.....	4	Nicaragua.....	1
Canada.....	1,681	Norway.....	540
Cape Colony.....	11	Panama.....	6
Chili.....	20	Persia.....	1
China.....	9	Peru.....	14
Costa Rica.....	5	Philippine Islands.....	2
Cuba.....	3	Portugal.....	132
Denmark.....	754	Russia.....	744
East Indies.....	6	San Salvador.....	1
Ecuador.....	2	Scotland.....	910
Egypt.....	3	Siberia.....	1
England.....	2,559	Spain.....	22
France.....	802	Sweden.....	1,500
Germany.....	8,281	Switzerland.....	636
Gibraltar.....	2	Tahiti.....	5
Greece.....	142	Turkey.....	66
Guatamala.....	6	United States of Columbia.....	3
Guiana.....	2	Uruguay.....	1
Holland.....	112	Venzuela.....	2
Honduras.....	2	Wales.....	143
Iceland.....	6	West Indies.....	38
India.....	12		
Ireland.....	7,288	Total.....	29,074

STATEMENT SHOWING THE OCCUPATIONS OF THE REGISTERED VOTERS
AS OF DECEMBER 31, 1904.

Agent.....	677	Customs Inspector.....	38
Attorney.....	1,134	Car Employees.....	1,369
Artisan.....	1	Cement Worker.....	179
Actor.....	31	Cabinet Maker.....	208
Author.....	3	Cutter.....	149
Artist.....	98	Chemist.....	76
Auctioneer.....	26	Cashier.....	250
Accountant.....	251	Clergyman.....	184
Assayer.....	31	Core Maker.....	35
Advertiser.....	39	Carpet Layer.....	95
Architect.....	132	Coppersmith.....	47
Auditor.....	26	Coverer.....	3
Adjuster.....	32	Custodian.....	3
Awning maker.....	2	Civil Engineer.....	117
Armorer.....	4	Carriage Timmer.....	21
Apiarist.....	2	Cap Maker.....	11
Athlete.....	1	Coachman.....	75
Asbestos Worker.....	5	Chiropodist.....	13
Attendant.....	4	Casket Timmer.....	2
Astronomer.....	1	Currier.....	23
Builder.....	140	Car Builder.....	37
Baggage man.....	13	Cornice Maker.....	17
Boiler maker.....	442	Cane Maker.....	1
Bar tender.....	1,017	Cutler.....	10
Boatman.....	38	Chipper.....	21
Barber.....	902	Coffee Roaster.....	21
Blacksmith.....	612	Compositor.....	102
Bookkeeper.....	1,323	Carpet Cutter.....	2
Butcher.....	950	Caterer.....	20
Baker.....	509	Chair Maker.....	6
Bedmaker.....	9	Cushion Maker.....	3
Box Maker.....	155	Carriage Maker.....	39
Brass Finisher.....	59	Collar Maker.....	17
Book Binder.....	142	Carpet Cleaner.....	14
Broker.....	367	Character Reader.....	1
Brakeman.....	39	Canner.....	35
Bridge Builder.....	49	Carver.....	20
Brick Layer.....	260	Cook.....	580
Bottler.....	114	Chauffeur.....	26
Broom Maker.....	7	Costumer.....	1
Brewer.....	241	Dentist.....	395
Brass Worker.....	13	Deckhand.....	7
Bill Poster.....	4	Draughtsman.....	193
Bag Cutter.....	2	Druggist.....	381
Buyer.....	57	Designer.....	26
Bootblack.....	15	Driller.....	40
Bathhouse Keeper.....	1	Dish Washer.....	7
Bell Boy.....	8	Derrick Man.....	20
Butler.....	14	Dyer.....	43
Banker.....	71	Dairyman.....	119
Bolt Maker.....	5	Distributor.....	5
Brush Maker.....	3	Decorator.....	66
Bag Maker.....	7	Dresser.....	3
Bit Maker.....	1	Detective.....	17
Basket Maker.....	5	Die Setter.....	2
Brick Maker.....	23	Door Maker.....	3
Boat Builder.....	38	Dock Master.....	1
Belt Maker.....	9	Dredger.....	2
Clerk.....	7,894	Distiller.....	5
Captain.....	21	Engineer.....	1,301
Cooper.....	292	Expressman.....	170
Carpenter.....	2,731	Electrician.....	725
Cigar Maker.....	151	Editor.....	19
Candy Maker.....	104	Electro-plater.....	13
Confectioner.....	102	Elevator Man.....	96
Can Maker.....	74	Engraver.....	65
Carriage Painter.....	39	Embroiderer.....	2
Collector.....	334	Fireman.....	1,017
Capitalist.....	170	Foreman.....	379
Contractor.....	485	Farmer.....	126

STATEMENT SHOWING REGISTERED VOTERS—Continued.

Fruit Packer.....	1	Longshoreman.....	279
Fitter.....	8	Locksmith.....	42
Finisher.....	42	Laundryman.....	346
Furrier.....	37	Lumberman.....	244
Freight Handler.....	64	Liquor Dealer.....	1,458
Flag Man.....	5	Lather.....	64
Florist.....	95	Letter Carrier.....	297
Frame Maker.....	38	Lineman.....	121
Fisherman.....	77	Leather Worker.....	30
Foundryman.....	21	Lamp Lighter.....	30
Fixture Hanger.....	7	Lithographer.....	90
File Cutter.....	3	Linotypist.....	21
Filer.....	14	Liveryman.....	73
		Librarian.....	17
Grocer.....	950	Lecturer.....	1
Glove Maker.....	29	Lead Worker.....	7
Glove Cutter.....	34	Light-house Worker.....	7
Grainer.....	23	Lapidary.....	2
Galvanizer.....	5		
Glass Blower.....	103	Mariner.....	239
Gilder.....	31	Miner.....	517
Gardener.....	239	Master Mariner.....	155
Goldsmith.....	1	Merchant.....	4,634
Glazier.....	36	Mill Hand.....	172
Gas Fitter.....	93	Manager.....	513
Gate Man.....	19	Moulder.....	304
Guard.....	15	Millman.....	129
Gauger.....	25	Machinist.....	1,677
Glass Cutter.....	20	Miller.....	58
Grinder.....	7	Messenger.....	84
Gas Maker.....	58	Motorman.....	400
Gunsmith.....	7	Mattress Maker.....	17
Glue Maker.....	4	Metal Polisher.....	17
Guide.....	15	Musician.....	317
		Meter Man.....	26
Hotel and Lodginghouse Keeper.....	357	Mill Wright.....	89
Helper.....	168	Meter Repairer.....	2
Horse shoer.....	168	Mining Engineer.....	46
Hatter.....	34	Metal Roofer.....	15
Hackman.....	95	Marble Finisher.....	13
Harness Maker.....	136	Mechanic.....	352
House Mover.....	53	Manufacturer.....	504
Hod Carrier.....	30	Marble Cutter.....	62
Horseman.....	73	Masseur.....	14
Horse Clipper.....	1	Milkman.....	58
Hose Maker.....	2	Mailer.....	16
Historian.....	1	Marine Engineer.....	149
Housesmith.....	12	Metal Worker.....	245
		Marine Fireman.....	88
Iron Worker.....	310	Medium.....	3
Interpreter.....	15	Machine Hand.....	38
Insurance.....	505		
Iron Moulder.....	90	None.....	1,003
Iceman.....	21	News Dealer.....	47
Instructor.....	17	Nurse.....	62
Ink Maker.....	5	Notary Public.....	27
Instrument Maker.....	17	Nailer.....	3
Inventor.....	7		
Ice Cream Maker.....	1	Oiler.....	92
Irrigationist.....	1	Oysterman.....	40
Inspector.....	204	Operator.....	83
		Optician.....	60
Jeweler.....	234	Orchardist.....	6
Joiner.....	84		
Janitor.....	406	Painter.....	1,384
Journalist.....	311	Pile Driver.....	28
Jockey.....	2	Pattern Maker.....	125
Junkman.....	16	Plumber.....	855
Japaner.....	9	Porter.....	685
		Physician and Surgeon.....	882
Keeper.....	9	Printer.....	725
Knitter.....	8	Packer.....	258
		Photographer.....	119
Laborer.....	4,011	Plasterer.....	170

STATEMENT SHOWING REGISTERED VOTERS—Continued.

Peddler.....	127	Ship Chandler.....	6
Police Officer.....	687	Saddler.....	28
Pressman.....	198	Stock Cutter.....	3
Publisher.....	75	Ship Riveter.....	1
Paper Carrier.....	80	Sail Maker.....	68
Pork Packer.....	6	Signal Man.....	4
Pipe Maker.....	21	Scavenger.....	34
Paver and Rammer.....	57	Shoe Cutter.....	36
Paper Hanger.....	124	Shoe Fitter.....	11
Paste Maker.....	5	Soap Maker.....	23
Pipe Cutter.....	6	Stair Builder.....	42
Pyrotechner.....	1	Shade Maker.....	5
Pilot.....	26	Speculator.....	28
Promoter.....	15	Splicer.....	1
Pipe Fitter.....	37	Searcher of Records.....	10
Paper Ruler.....	20	Sugar Sampler.....	1
Plater.....	13	Sculptor.....	5
Paper Cutter.....	9	Smelterer.....	6
Polisher.....	102	Salesman.....	2,853
Politician.....	1	Sexton.....	16
Property Man.....	2	Spar Maker.....	6
Paper Maker.....	3	Spice Grinder.....	1
Pantry Man.....	6	Safe Maker.....	2
Potter.....	2	Sack Sewer.....	5
Piano Maker.....	18	Shingler.....	27
Quartermaster.....	1	Statistician.....	2
Quarryman.....	3	Spinner.....	5
Rigger.....	82	Salvation Army.....	2
Real Estate.....	513	Spring Maker.....	3
Restaurateur.....	300	Stock Raiser.....	7
Retired.....	1,289	Sugar Boiler.....	25
Roofer.....	47	Shipwright.....	111
Rancher.....	29	Soda Maker.....	6
Riveter.....	48	Sign Painter.....	62
Raftsmen.....	5	Teamster and Drayman.....	3,255
Rubber Worker.....	16	Teacher.....	239
Rope Maker.....	50	Tailor.....	710
Rectifier.....	25	Trainer.....	7
Rattan Worker.....	9	Telegrapher.....	70
Refiner.....	11	Traveling Salesman.....	266
Sailor.....	769	Trunk Maker.....	33
Steward.....	176	Tanner.....	231
Ship Caulker.....	91	Tinner.....	168
Stevedore.....	487	Turner.....	1
Solicitor.....	320	Type Founder.....	16
Stenographer.....	179	Tuner.....	21
Sweeper.....	34	Typewriter Repairer.....	4
Ship Rigger.....	3	Taxidermist.....	1
Stableman.....	297	Time Keeper.....	15
Shoe Maker.....	493	Tile Setter.....	57
Ship Painter.....	6	Tool Maker.....	9
Surveyor.....	66	Treasurer.....	26
Steam Fitter.....	109	Trimmer.....	16
Special Officer.....	111	Toolkeeper.....	2
Secretary.....	288	Upholsterer.....	209
Steel Forger.....	3	Undertaker.....	119
Ship Driller.....	15	Umbrella Maker.....	1
Ship Fitter.....	97	Usher.....	2
Stone Cutter.....	166	Umpire.....	1
Sawyer.....	61	Veterinary Surgeon.....	29
Student.....	380	Varnish Maker.....	4
Superintendent.....	234	Varnisher.....	34
Shirt Cutter.....	12	Vinegar Maker.....	4
Stereotyper.....	29	Vaquero.....	5
Ship Builder.....	66	Valet.....	8
Silversmith.....	33	Vocalist.....	13
Steel Worker.....	6	Waiter.....	702
Solderer.....	11	Wharf Builder.....	11
Soldier.....	19	Weigher.....	75
Saw Maker.....	2	Watchman.....	369
Switchman.....	70	Woodworker.....	65

STATEMENT SHOWING REGISTERED VOTERS—Continued.

Water Tender.....	15	Whitener.....	13
Wharfinger.....	18	Wrapper.....	5
Watchmaker.....	59	Whip Maker.....	6
Wagon Maker.....	34	Window Cleaner.....	10
Warehouseman.....	81	Wire worker.....	49
Wool Sorter.....	61	Weaver.....	6
Wine Maker.....	16		
Wheel Wright.....	16	Total.....	81,371
Wood Turner.....	26		

REPORT
OF THE
PUBLIC ADMINISTRATOR.

San Francisco, July 8, 1905.

To the Hon. Eugene E. Schmitz, Mayor
of the City and County of San Francisco.

Dear Sir:—I hereby make return and report of all estates of decedents which
have come into my hands for the fiscal year ending June 30th, 1905.

Respectfully submitted,

M. J. HYNES,

Public Administrator of the City and County of San Francisco.

REPORT OF PUBLIC ADMINISTRATOR FOR YEAR ENDING JUNE 30, 1905.

1904	Names of Decedents.	Approximate Value of Estate, as far as ascertained.	Money which has come into hands of Administrator.	Funeral expenses Expense of last illness, Debts and Family allowances paid by Administrator.	Fees and Expenses paid by Administrator.	Money in Saving Banks and not withdrawn by Administrator.	Moneys on deposit with Cal. Safe Deposit & Trust Co. to credit of Estates of decedents.	Property exclusive of money in hands of Administrator.	Distributed to Heirs.
July 1	William Gearhart.....	\$ 156.90	156.90	79.45	48.25	.....	.....	.....	.....
July 1	Asa H. Truman.....	378.60	378.60	150.25	102.87	.....	.....	.....	.....
July 11	E. W. Railton.....	7,201.10	7,201.10	.....	901.10	.....	.....	.....	.....
July 11	Joseph Abner Reed, alias.....	.....	.....	.....	1.50	.....	.....	.....	.....
July 11	Charles L. Rice.....	191.11	191.11	.....	9.36	.....	.....	.....	.....
July 12	Thomas Gallagher.....	1,606.07	1,606.07	.....	291.66	.....	.....	.....	181.75
July 12	Bernard A. Olsen.....	200.14	200.14	155.79	44.35	.....	.....	.....	1,314.41
July 12	Caroline C. Sankey.....	.....	.....	.....	6.75	.....	.....	.....	.....
July 12	Charles Wall.....	.....	.....	.....	6.25	.....	.....	.....	.....
July 19	Henry Knopp (Special Letters) (Delivered to Executors).....	339,831.71	1,063.35	.....	208.25	.....	.....	.....	339,623.46
July 22	Chiarrigione Agastino.....	661.32	661.32	182.25	114.01	.....	.....	.....	365.06
July 25	Weert Klaassen, alias.....	2,151.24	2,151.24	.....	347.05	.....	.....	.....	1,655.17
July 25	Philip E. Shannon.....	.....	.....	.....	.....	.....	.....	.....	.....
July 26	Mary Dalton.....	.....	.....	.....	1.50	.....	.....	.....	.....
July 26	Emile Malichi, Delepine Joseph.....	.....	.....	.....	1.00	.....	.....	.....	.....
July 26	Isabella Delepine Joseph.....	.....	.....	.....	1.00	.....	.....	.....	.....
Aug. 1	Dr. William S. Hereford.....	100.00	.....	.....	48.00	.....	.....	.....	.....
Aug. 1	Charles Glassen.....	160.97	160.97	75.00	48.01	.....	.....	.....	.....
Aug. 2	H. Swan also called H. Swanson and August Swanson.....	380.00	380.00	145.00	72.08	.....	.....	.....	.....
Aug. 9	Jackson McKenty (Special Letters).....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 12	Mary O'Neil.....	10,077.39	10,077.39	450.00	172.63	.....	.....	.....	3,500.00
Aug. 15	Charles H. Burton.....	.....	.....	.....	7.25	.....	.....	.....	.....
Aug. 15	William H. Whitney.....	.....	.....	.....	7.25	.....	.....	.....	.....
Aug. 18	G. Da Col, alias.....	129.58	129.58	70.25	44.47	.....	.....	.....	.....
Aug. 19	F. W. Bailey, alias.....	680.00	20.00	.....	24.94	.....	.....	660.00	.....
Aug. 19	Mary E. Burgess, formerly Mary E. Green.....	1,460.00	1,460.00	.....	182.00	.....	.....	.....	1,278.00
Aug. 19	James Dowling (Special Letters).....	.....	.....	.....	.....	.....	.....	.....	.....
Aug. 24	Richard W. Wilson.....	200.00	200.00	118.48	8.15	.....	.....	.....	73.37
Aug. 25	Anna Emmel.....	.....	.....	.....	7.00	.....	.....	.....	.....
Aug. 25	George Hays, alias.....	.....	.....	.....	1.00	.....	.....	.....	.....

REPORT OF PUBLIC ADMINISTRATOR FOR YEAR ENDING JUNE 30, 1905—Continued.

1904	Names of Decedents.	Approximate Value of Estate, as far as ascertained.	Money which has come into hands of Administrator.	Funeral expenses Expense of last illness, Debts and Family allowances paid by Administrator.	Fees and Expenses paid by Administrator.	Money in Savings Banks and not withdrawn by Administrator.	Moneys on deposit with Cal. Safe Deposit & Trust Co., to credit of Estates of decedents.	Property exclusive of money in hands of Administrator.	Distributed to Heirs.
Aug. 25	Lawrence McDonagh, alias.....	4,796.75	4,796.75	1,167.41	101.53		3,527.81		
Aug. 25	Emma Millardt.....				7.00				
Aug. 25	Josephine Roult, alias Josephine Kouth.....				1.50				
Aug. 29	James Cook.....	774.77	774.77	125.00	122.54		527.23		
Aug. 29	Mrs. A. Lippe, formerly Elizabeth C. Wesley.....	50.50	50.50						
Sept. 8	Bridget Cooney.....				50.50				
Sept. 13	Mary Jane Conroy.....				1.00				
Sept. 13	Henry Droge.....	944.84	944.84	319.50	152.23		473.11		
Sept. 14	Erik Degmer.....	1,167.54	927.54		6.25				
Sept. 14	Nellie B. Millar, alias.....	168.05	168.05		277.28		650.26	240.00	
Sept. 15	George Bowers, alias.....	201.06	201.06		47.08		120.97		
Sept. 15	Richard Baxter Fenn, alias.....	352.29	352.29		54.80		146.26		
Sept. 15	Eilbridge Alvin Gardner, alias.....	137.04	137.04		73.20		279.09		
Sept. 15	Thomas Parr.....	93.03	137.04		45.34		91.70		
Sept. 15	James Toohy, alias.....	464.67	93.03	60.02	33.01				
Sept. 15	James A. Savage, alias.....	245.67	464.67		86.36		378.31		
Sept. 15	Jacob Schmitt.....	245.67	245.67		60.58		185.09		
Sept. 15	Jacob Schwarzenberg.....	197.47	197.47		57.14		140.33		
Sept. 15	Joseph Schweigert, alias.....	221.67	221.67	97.00	58.99		162.68		
Sept. 20	Patrick Ahearn.....	239.75	239.75		57.18		85.57		
Sept. 22	Charles Rankin.....	6,400.00			5.25			5,000.00	
Sept. 26	Patrick H. Cahill.....	232.79	232.79	110.00	25				
Sept. 26	Henry Kober.....	10,875.74	10,875.74	608.00	57.79		10,252.49	65.00	
Sept. 26	John H. Peterson.....	2,727.60	2,649.60	801.00	15.25		1,476.21	78.00	
Sept. 27	Massihamo Poli.....	505.31	505.31		371.89		421.32		
Oct. 3	Jeremiah McCarthy.....	554.90	554.90		83.99				457.47
Oct. 4	Franklin Neal, alias.....	1,472.21	1,472.21	573.50	97.43				
Oct. 4	Margaret Wall.....	307.78	307.78		36.80				283.15
Oct. 6	Etienne Modiste Renaudat, alias.....				74.63				
Oct. 10	Hiram A. Pearsons.....	5,146.26	5,146.26	601.50	6.00		801.91		
Oct. 11	Johanna Harrigan, alias.....	601.97	601.97	474.25	1,152.46				3,392.30
Oct. 11	Jac Humphries.....				127.72				

Oct. 11	Rose McGovern.....	114.40	114.40	15.10	.....	.....	.....	99.30
Oct. 12	Jens C. Hansen.....	2,120.00	120.00	285.55	.....	.....	.....	2,009.00
Oct. 17	Fredrik Pendsen.....	838.53	838.53	133.80	.....	.....	648.73	.....
Oct. 17	Maria Gibney.....	.....	.....	6.75	.....	.....	.....	.....
Oct. 17	William P. Goldie, alias.....	2,732.61	2,732.61	342.38	.....	.....	2,390.23	.....
Oct. 17	William H. Grattan.....	.....	.....	6.75	.....	.....	.....	.....
Oct. 17	Michael Newell.....	151.50	151.50	44.85	.....	.....	19.15	.....
Oct. 17	Olat Norling.....	5,048.17	5,048.17	819.94	.....	.....	.....	.....
Oct. 24	B. Woods.....	160.00	160.00	46.70	.....	.....	11.30	.....
Oct. 25	Daisy Curry.....	.....	.....	1.00	.....	.....	.....	.....
Oct. 25	Charles Hummel.....	3,222.89	3,222.89	514.86	.....	.....	2,304.53	4,080.23
Oct. 26	Joseph Beattie.....	570.81	570.81	58.86	.....	.....	511.95	.....
Oct. 27	Mildred Stetson, sometimes called Mildred Stephenson.....	200.00	.....	37.30	.....	.....	.....	200.00
Oct. 31	Leon Geofray.....	266.58	266.58	66.49	.....	.....	30.59	.....
Oct. 31	Auguste Masset.....	201.15	201.15	151.44	.....	.....	.....	.....
Nov. 1	Peter McGuire, also called Frank Elkin.....	852.41	852.41	151.59	.....	.....	528.82	.....
Nov. 2	Henry Baker.....	.....	.....	6.00	.....	.....	.....	.....
Nov. 7	Azariah A. Bancroft, alias, Charles McCarthy.....	1,095.88	1,075.88	29.83	.....	.....	722.80	.....
Nov. 7	Miss Lena Myers, alias.....	953.35	953.35	162.93	.....	.....	.....	610.42
Nov. 7	Martin Presthus also called Martin Petersen.....	1,567.77	1,567.77	228.16	.....	.....	.....	1,324.61
Nov. 12	John Summy.....	607.83	.....	1.25	.....	.....	607.83	.....
Nov. 14	Wm. Lorenz.....	207.76	207.76	55.04	.....	.....	.....	.....
Nov. 15	Mrs. Annie Alsop, alias.....	4,809.86	4,809.86	400.82	.....	.....	4,409.04	.....
Nov. 15	James D. Clark, alias.....	264.55	264.55	55.48	.....	.....	107.07	.....
Nov. 17	Herman Elwlich.....	151.00	151.00	30.98	.....	.....	120.02	.....
Nov. 18	Cynthia J. Leonard, also known as Cynthia J. Lord.....	550.00	.....	13.46	.....	.....	.....	550.00
Nov. 22	Richard Brigsstocke.....	241.75	241.75	77.47	.....	.....	.....	.....
Nov. 22	Frank Mahler, alias.....	4,846.48	3,846.48	247.14	.....	.....	.....	2,850.00
Nov. 28	Charles Clover, also called Charles Claber.....	95.25	95.25	29.90	.....	.....	.....	.....
Nov. 28	F. W. Froese.....	714.10	714.10	103.99	.....	.....	.....	536.11
Nov. 28	Joseph Gronghian.....	891.96	891.96	146.01	.....	.....	500.95	.....
Nov. 28	Charles Ingilis, alias.....	806.74	542.73	22.69	.....	.....	264.01	.....
Dec. 1	Edward Gastoldi, alias.....	592.39	592.39	20.00	.....	.....	540.39	.....
Dec. 5	Philip Werner.....	1,119.85	1,119.85	179.68	.....	.....	811.42	.....
Dec. 6	Emma Thornburgh, also called Emma Gray and Ruby Weston.....	.....	.....	4.00	.....	.....	.....	.....
Dec. 7	John Dixon.....	.....	.....	6.25	.....	.....	.....	.....
Dec. 7	Patrick Farlie.....	.....	.....	6.25	.....	.....	.....	.....
Dec. 7	Pierre Lanonguere.....	714.05	114.05	10.50	.....	.....	33.15	600.00

REPORT OF PUBLIC ADMINISTRATOR FOR YEAR ENDING JUNE 30, 1905—Continued.

1904	Names of Decedents.	Approximate Value of Estate, as far as ascertained.	Money which has come into hands of Administrator.	Funeral expenses Expense of last illness, Debts and Family allowances paid by Administrator.	Fees and Expenses paid by Administrator.	Money in Savings Banks and not withdrawn by Administrator.	Moneys on deposit with Cal. Safe Deposit & Trust Co., to credit of Estates of decedents.	Property exclusive of money in hands of Administrator.	Distributed to Heirs.
Dec. 7	George Spicer.....	104.90	104.90	72.05	32.85				
Dec. 12	Henry De Groot, alias C. Gogne.....	64.00	64.00	34.00	6.75				
Dec. 12	Sarah McElhenney, alias.....	306.82	281.82		14.50	15.50	25.00		
Dec. 14	Rosa Ann Moreano.....	5,000.00			19.97	261.85			
Dec. 15	George Robinson(Special Letters)								
Dec. 19	Sidonie C. Beaufort.....	483.88	483.88		65.08		418.80		
Dec. 19	Adelia Melinda Bennett, also called Adelia M. Keller.....	500.00	263.75		2.05			500.00	
Dec. 22	Daniel Harrold also called Daniel Harlow.....	41.25	41.25	20.00	66.26	197.49			
Dec. 23	John A. Ritchie, alias.....	13,701.86	9,501.86		21.25				
Dec. 27	John Lindstrom.....	2,570.22	2,570.00	133.00	192.02		9,309.84	4,200.00	1,998.48
Dec. 29	Wilhelmine Duwe also called Wilhelmine Dune.....	600.00			438.74			600.00	
1905									
Jan. 3	Frederick W. Heath (To Administrator with Will annexed)				4.35				
Jan. 3	Jorgen Mollestad, also called Jorgen M. Mollestad.....	467.88	467.88	168.00	90.53				209.35
Jan. 3	Domingo Montez.....	192.46	192.46	90.00	53.61		48.85		
Jan. 3	Richard P. F. Sinner.....	2,200.00			.25	2,200.00			
Jan. 9	William Caldwell.....	230.00			1.25				
Jan. 9	John Gibbons.....	244.60			2.50				
Jan. 9	Kelsey Hazen.....				6.75				
Jan. 9	Louis Tschusch, alias.....	143.70	143.70	83.00	47.75		12.95		
Jan. 10	Josiah M. Hunt.....				6.25				
Jan. 10	Gordon Lloyd, alias.....	2,924.91	2,833.41		372.15		2,461.26	91.50	
Jan. 11	George W. Chesley.....				12.25				
Jan. 12	W. P. Clark.....	197.60	197.60	101.05	49.38		47.17		
Jan. 20	Edward E. Chever.....	8,950.70	8,950.70		94.50				8,856.20
Jan. 20	Innocente Zanini.....				5.25				
Feb. 1	Edwin Albert Dowd.....	2,777.68	2,777.68		319.26		2,458.42		

Feb. 1	William Glennon.....	4,493.34	21.85	26.60	3,874.39	171.04	600.00
Feb. 1	John Leave.....	226.00	226.00	54.96		179.32	
Feb. 1	Candido Martinelli.....	404.50	404.50	15.93		89.95	
Feb. 1	Alexander McLellan, alias.....	177.60	75.00	12.65		1,063.10	
Feb. 1	Agastino Peivano.....	1,323.89	71.00	189.79			
Feb. 1	Bradley Rooney.....			1.25		29.91	
Feb. 2	Edgar Ashby.....	63.10	63.10	33.19			
Feb. 2	Lewis Dent.....			6.25			
Feb. 2	L. C. Gearhart.....	70.00	70.00	29.15			
Feb. 6	Margaret E. Miller.....		40.85	6.25			
Feb. 6	Israel Brayton.....			6.25			
Feb. 6	Mary A. Krayton.....			6.25			
Feb. 6	Thomas A. Bush.....	2,096.48	290.30	40.19	216.00	1,549.99	
Feb. 6	James T. Cross.....	27,864.32	235.68	439.22		511.13	26,426.50
Feb. 6	John I. Tillman.....			6.25			
Feb. 8	George Rowe.....	1,000.00		1.75			
Feb. 17	Herman Bush, alias.....	1,607.31	1,607.31	38.25		1,307.16	
Feb. 17	Julia Glennon.....		261.90	2.00			
Feb. 17	Celia Kelly.....	513.73	245.25	14.50		253.98	
Feb. 17	Rosa Kugelmann.....	52,356.75	1,356.75	45.60		1,311.15	51,000.00
Feb. 17	Hannah Miller.....			6.25			
Feb. 17	Isidore Shirpser.....			6.25			
Feb. 24	Owen Brady.....	1,042.60	273.25	38.28		731.07	
Feb. 24	William Deal.....	82.15	25.00	15.25		41.90	
Feb. 24	Gardener Deane.....	124.25	25.00	14.50		84.75	
Feb. 24	George Graham.....	155.86	70.00	12.65		73.21	
Feb. 24	Mary Lawler.....	567.15	413.00	25.75		128.40	
Feb. 24	James May.....	200.00		8.50			200.00
Feb. 24	David Penhallin.....			6.25			
Feb. 24	Arthur H. White, alias (Special Letters).....	1542.33	1,542.33	137.50			1,404.83
Feb. 28	J. H. Claussen (Special Letters).....			1.25			
Feb. 28	Giuseppi Freguglia (Special Letters).....			1.25			
Mch. 3	John Byrne.....	2,616.70	2,516.70	876.83		1,577.49	100.00
Mch. 3	Antoine Dragovich.....			2.50			
Mch. 3	Hannah McSweeney, alias.....	3,755.54	329.50	14.15		3,411.89	
Mch. 3	E. D. Wheeler.....			6.25			
Mch. 6	Genevieve Douchet.....			6.25			
Mch. 6	Julius Douchet.....			6.25			
Mch. 6	Joseph Hobi, alias.....	1,940.35	140.35	28.00		87.35	1,500.00
Mch. 6	Julius May.....		25.00	6.25			
Mch. 6	John K. Robbins.....			6.25			
Mch. 13	Richard C. Foley.....			6.75			
Mch. 13	William Warin.....	935.00	935.00	27.64		890.36	

REPORT OF PUBLIC ADMINISTRATOR FOR THE YEAR ENDING JUNE 30, 1905—Continued.

1905	Names of Decedents.	Approximate Value of Estate, as far as ascertained.	Money which has come into hands of Administrator.	Funerl expenses Expense of last illness, Debts and Family allowances paid by Administrator.	Fees and Expenses paid by Administrator.	Money in Savings Banks and not withdrawn by Administrator.	Moneys on deposit with Cal. Safe Deposit & Trust Co., to credit of Estates of decedents.	Property exclusive of money in hands of Administrator.	Distributed to Heirs.
Mch. 20	Victor M. Baquero.	76.22	76.22		12.25		63.97		
Mch. 20	Ellen Collins	639.75	639.75		8.25		631.50		
Mch. 20	Ellen Fay	4,661.98	4,661.98	298.00	13.00		4,350.98		
Mch. 20	Ernest O. Fry	60.52	60.52	40.00	7.75		12.77		
Mch. 20	Enoch Hilliker	2,313.44	2,313.44		11.25		2,302.19		
Mch. 20	Harry W. McClelland	1,140.16	1,120.16		13.75		1,106.41	20.00	
Mch. 20	Donald McLea, alias				6.00				
Mch. 20	John M. Bommarés				6.25				
Mch. 24	Margaret Burke	334.06	334.06	98.50	13.75		221.81		
Mch. 24	John Deehan.	2,187.54	2,187.54	287.00	13.25		1,887.29		
Mch. 24	A. W. Holmstrom, alias	2,000.00			158.95		2,000.00		
Mch. 27	J. Furman Neefus, alias				6.25				
April 3	Henry K. W. Clarke.				5.50				
April 3	Lydia E. Rank				6.75				
April 10	H. G. Baker	86.60	86.60		12.50		74.10		
April 10	Ellen Cotter	600.00			8.50		600.00		
April 10	George Fay	522.91			1.50	522.91			
April 10	Elizabeth Edwards				6.75				
April 11	Alexander Dunsmuir.				16.05				
April 13	Solomon I. Katz, alias				12.75				
April 14	Andres Peter Andersen, alias	61.75	51.75		11.50		40.25	10.00	
April 14	James Rice	528.36	528.36		14.50		513.86		
April 14	P. W. Van Winkle	100.00			1.00		100.00		
April 17	Luca Bradas.	673.98	673.98	186.50	12.25		475.23		
April 17	F. W. Brown, alias.	2,709.12	1,834.12	147.50	48.75		1,637.87		
April 17	Carl Marcus Carlsen.	250.00					250.00		
April 21	James Holohan.	1,853.38	1,853.38		12.65		1,840.73		50.00
April 21	Angelo Petri	50.00			7.25				
May 3	Martin Kaudic, alias	7.00	7.00		8.75				
May 4	Stephen James Bemis, alias	922.26	922.26		12.50		909.76		
May 4	Robert W. Mackie				1.00				
May 4	India Masters.	12,000.00			6.75		12,000.00		
May 4	Marie Van Tassel.	100.00			1.00		100.00		
May 4	Mrs. Abbie R. West.	472.60	22.60		8.95		13.65		

May 4	Joseph Winslow	100.00	723.18	137.25	1.00	574.18	100.00
May 5	August Buder	723.18			11.75		
May 5	Mrs. Harriet Burr				1.00		
May 5	Fred C. Hopke	106.80	106.80	46.50	14.60	45.70	
May 5	Elizabeth Leavett Howard				1.00		
May 8	Hanez Ferencz	501.34	501.34		12.75	488.59	
May 8	Albert Godefroy, alias				6.25		
May 8	Michael McFadden	2,750.84	2,750.84	294.50	12.50	2,443.84	
May 8	George Robinson	167.00	167.00	51.00	12.25	103.75	
May 8	Nathan Scholfield				6.00		
May 9	Maria Rogers, formerly Maria Moran	5,133.65	2,133.65	388.50	37.75	1,707.40	3,000.00
May 12	Thomas J. Riley	1,069.13	1,069.13		8.25	1,060.88	200.00
May 22	Josephine Frawley	200.00			1.00		
May 22	Eliza Shields	174.00	174.00	22.00	8.15	143.85	
May 23	Kate Spillane	1,685.00					
May 29	Alice Parley	125.00			3.00		125.00
May 29	George R. Huff	452.44	452.44	300.82	14.45	137.17	
June 2	Spyros Donsonnis	144.15	144.15	42.50	7.50	94.15	
June 5	Clarke Churchill				13.25		
June 9	John Wessels	915.67	915.67	182.80	8.50	724.37	
June 12	Johann Franc Bernard (Special Letters)	87.85	37.85		6.75	31.10	50.00
June 12	Sarah J. Richardson	90.00	90.00		7.50	82.50	
June 14	Stefano Gianettoni (Special Letters)	7,234.13	5,234.13		735.40	4,348.93	2,000.00
June 20	John H. Callaghan	200.00			1.25		
June 20	Michael Darby	135.90	135.90		7.75	128.15	
June 20	Wesley P. Ford	100.00					
June 20	Eliza J. Hall	200.00			1.00		
June 20	John Hartnett	452.87	90		1.25	452.87	
June 20	Wm. R. Taylor	100.00					
June 23	John T. Donnelly	100.00			1.25		100.00
June 23	Vincent Lacues				1.00		
June 26	William J. Chever				6.25		
June 26	Heien Hovey				6.75		
June 26	John A. Plummer				6.75		
June 26	Annie S. Taylor				6.75		
June 27	Morris Bradner	100.00					
June 27	Giorganni Traversavo	6,000.00			.25		

Civil Service Commission's Report

San Francisco, July 1, 1905.

To His Honor,
The Mayor.

Sir—In accordance with the provisions of Section 9. Article XVI of the Charter, the Civil Service Commissioners present herewith a report of the operations of their department for the fiscal year ended June 30, 1905.

During the past fiscal year, 995 applicants have been examined in 11 examinations, held as follows:

Police Department—Sergeants, Lieutenants.

Fire Department—Truckmen, Hosemen.

Health Department—Disinterment Inspector, Chief Laboratory Assistant and Apprentice, Laboratory Assistants and Apprentices, Pupil Nurses.

Board of Public Works—Side Sewer Men, Janitors, Street Sweepers.

From the registers of eligibles arising from these examinations, appointments have been made as follows:

Police Department—Sergeants, 8; Lieutenants, 6.

Fire Department—Truckmen, 1; Hosemen, 5.

Board of Health—Disinterment Inspector, 1; Laboratory Assistants and Apprentices, 3; Pupil Nurses, 34.

Board of Public Works—Side Sewer men, 44; Janitors, 43; Street Sweepers, 211.

The total number of Civil Service appointments made during the past fiscal year was 797, of which 356 were made from registers of eligibles established from examinations held during the year.

It is with great satisfaction that this Commission reports that the entire street sweeping force of the city is now composed of Civil Service appointees. In former reports, and particularly in that filed with the Board of Supervisors last January, we referred at some length to our repeated efforts to hold an examination for street sweepers. Two injunctions were issued against the Commission whereby the examination was necessarily postponed. It was finally held last month, the plaintiff in the last proceeding against us having dismissed his action. Of the 482 applicants, 353 were rated on the register of eligibles. Two other important examinations held during the year were those for side sewer men and janitors. The side sewer men are paid from moneys deposited in the Treasury by property owners who apply to the Board of Public Works to have tide sewers built in connection with their property, and a question arose as to whether or not they are city employees. The Commission decided that the side sewer men are municipal employees, and being appointed by the Board of Public Works are subject to the Civil Service provisions of the Charter. Under this ruling, the examination was held, and with very satisfactory results. The examination for janitors, which did not include school janitors, called forth 166 applicants of whom 146 were placed on the register of eligibles. The Commission is now arranging for additional examinations to be held as rapidly as possible with the limited facilities at its command.

About 350 positions are yet to be filled from eligible registers to be created by examinations. More than half of these places are in the Department of Health, the various institutions under the control of that Department necessitating the employment of many people. In the City and County Hospital alone, for instance, there are 100 temporary appointees, but of these over 60 are paid \$10 a month and less. The temporary appointees in the other Departments are almost exclusively mechanics of long experience, artisans who are highly skilled in their various lines of work, and men possessed of technical knowledge acquired only by professional training. These places will be taken up by the Commission, until all are filled from eligible registers. As many, if not most, of the more important places will require a Board of Examiners, it may be necessary to defer action upon them until such time as provision may be made for the employment of such a board of boards, the Commission, after long and earnest endeavor having been unable to obtain the gratuitous assistance of men competent to conduct technical examinations. In our recent application to the Board of Supervisors for an appropriation for the fiscal year 1905-06, we included the small estimate of \$500 for the payment of special examiners. The Commission appeared before the Finance Committee, and showed the urgent necessity of some allowance for this purpose. The requested appropriation, however, was not allowed, nor was any other. The Commission greatly regrets the failure of this attempt to obtain sufficient funds for carrying on the work, the practical completion of which must be delayed in consequence of the refusal of the small sum asked for the payment of occasional necessary assistance.

Attached hereto are statements showing the appointments made during the year in each Municipal Department under Civil Service jurisdiction, and the total number of Civil Service appointees employed in such Departments at the end of the fiscal year 1904-05.

Respectfully submitted,

CIVIL SERVICE COMMISSIONERS.

GEORGE H BAHRS,

C. J. WILLIAMS,

JOHN W. ROGERS, President.

Attest:

E. J. MORAN, Chief Examiner and Secretary.

CIVIL SERVICE APPOINTMENTS MADE DURING THE FISCAL YEAR 1904-05.

AUDITOR.

Ordinary clerks, 119; temporary experienced clerks, 2; total, 121.

ELECTION COMMISSION.

Deputies, 10; ordinary clerks, 39; carpenters, 3; machinists, 1. Total, 53.

FIRE COMMISSION.

Firemen (truckmen and hosemen), 42; engineers, 13; machinists, 1. Total, 56.

DEPARTMENT OF ELECTRICITY.

Inspectors, 3; ordinary clerks, 1; bricklayers, 2; hodcarriers, 2; carpenters, 2; pavers, 3; rammers, 3; laborers, 35. Total, 51.

BOARD OF HEALTH.

Messengers, 7; dairy inspectors, 3; plumbing inspectors, 1; chief plumbing inspector, 1; watchmen, 2; disinterment inspector, 1; experienced clerks, 2; laboratory assistants and apprentices, 2; food inspectors, 2; market inspectors, 1. Total, 22.

POLICE COMMISSION.

Policemen, 64; corporals, 9; sergeants, 8; lieutenants, 6; captains, 1. Total, 88.

TAX COLLECTOR.

Ordinary clerks, 52; experienced clerks, 3; deputies, 1; Total, 56.

BOARD OF PUBLIC WORKS.

Painters, 15; pavers, 4; carpenters, 21; inspectors of school buildings, 2; rammers, 6; watchmen, 1; hodcarriers, 2; ordinary clerks, 2; bricklayer, 1; stenographers, 2; side sewer men, 44; surveyors, 2; janitors, 42; street sweepers, 187; laborers, 19. Total, 350.

RECAPITULATION.

CIVIL SERVICE APPOINTMENTS DURING FISCAL YEAR 1904-1905.

Auditor.....	121
Election Commission.....	53
Fire Commission.....	56
Department of Electricity.....	51
Board of Health.....	22
Police Commission.....	88
Tax Collector.....	56
Board of Public Works.....	350
Total.....	797

CIVIL SERVICE EMPLOYEES.

APPOINTED FROM REGISTERS OF ELIGIBLES.

July 1, 1905.

AUDITOR'S OFFICE.

Class.	Number Working.
Experienced Clerks.....	6
Deputies.....	2
Ordinary clerks.....	9
Total.....	17

BOARD OF PUBLIC WORKS.

Class.	Number Working.	Class.	Number Working.
Sewer cleaners.....	12	Inspector of side sewers.....	1
Stenographers.....	8	Inspector of streets and sewers.....	9
Bricklayers.....	5	Inspector of buildings.....	3
Hodcarriers.....	5	Office deputies.....	1
Pavers.....	9	Superintendent of sewers.....	1
Rammers.....	10	Field deputies.....	1
Plumbers.....	3	Inspector of complaints.....	2
Bookkeepers.....	2	Messengers.....	1
Carpenters.....	26	Surveyors' Field Assistants.....	12
Experienced clerks.....	8	Draughtsmen Bureau Eng.....	2
Painters.....	26	Watchmen.....	9
Surveyors.....	5	Chief Asst. Engineer, B. E.....	1
Assistant Engineers, B. E.....	4	Ordinary clerks.....	2
Inspector of school buildings.....	1	Side sewer men.....	44
Laborers.....	31	Janitors.....	42
		Street sweepers.....	221
Total.....			507

DEPARTMENT OF ELECTIONS.

Class	Number Working
Stenographers.....	1
Machinists.....	1
Deputies.....	16
Ordinary clerks.....	56
Total.....	74

DEPARTMENT OF ELECTRICITY.

Class	Number Working
Stenographers.....	1
Machinists.....	2
Repairs.....	3
Linemen.....	6
Instrument makers.....	4
Operators.....	6
Chief.....	1
Inspectors.....	1
Ordinary clerks.....	2
Total.....	26

DEPARTMENT OF HEALTH.

Class	Number Working
Experienced clerks.....	5
Assistant plumbing inspectors.....	3
Market inspectors.....	5
Messengers.....	5
Watchmen.....	3
Dairy inspectors.....	3
Chief plumbing inspector.....	1
Disinterment inspector.....	1
Stenographer.....	1
Food inspectors.....	2
Sanitary inspectors.....	3
Laboratory assistants and apprentices.....	1
Pupil nurses.....	34
Total.....	67

POLICE DEPARTMENT.

The present strength of the uniformed Police Force is 707 men, including the Chief of police, captains, lieutenants, sergeants, corporals; detectives and patrolmen. When the charter was adopted, 536 members of the Police Force became "hold overs" without Civil Service examination. Many of these have been separated from the Department. The following statement shows the number of men appointed from Civil Service registers now employed in the Police Department:

Policemen.....	266
Captains.....	6
Lieutenants.....	11
Sergeants.....	16
Corporals.....	12
Stenographers.....	1
Total.....	312

FIRE DEPARTMENT.

In the Fire Department there are 631 men, of whom 570 constitute the uniform force. There are 38 engine companies, 10 truck companies, 7 chemical engine companies, 1 water tower, 2 monitors and 5 relief engine companies. When the charter went into effect, 517 men became "hold overs" without examination. The following appointees from Civil Service registers are now employed:

Secretary.....	1
Firemen.....	118
Engineers.....	10
Machinist.....	1
Total.....	130

TAX COLLECTOR'S OFFICE.

Stenographer.....	1
Experienced clerks.....	20
Deputies.....	15
Ordinary clerks.....	1
Total.....	37

FIRE PENSION FUND COMMISSION.

Secretary.....	1
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POLICE PENSION FUND COMMISSION.

Secretary.....	1
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POLICE COURT.

Court stenographers.....	3
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RECAPITULATION.

Civil Service Employees.

Auditor's Office.....	17
Board of Public Works.....	507
Election Commission.....	74
Department of Electricity.....	26
Fire Department.....	631
Fire Pension Fund Commission.....	1
Police Pension Fund Commission.....	1
Department of Health.....	67
Police Court.....	3
Police Department.....	708
Tax Collector's Office.....	37
Total.....	<u>2,072</u>

REPORT
OF
Board of Trustees
OF THE
San Francisco Public Library
FOR THE
Fiscal Year Ending June 30, 1905.

Report of the President.

To the Hon. E. E. Schmitz,

Mayor of the City and County of San Francisco.

Sir: In accordance with law, the Trustees of the Public Library herewith present their report for the fiscal year ending June 30, 1905. Accompanying this report and forming part thereof are the annual reports of the Secretary and the Librarian to which you are respectfully referred for a more detailed account of the workings of the Library during the year

The total income of the Library for the year is \$78,786.99. Of this amount \$75,-490.99 was received from the tax levied in accordance with the charter provision for the support of the Library, while the sum of \$3,296.00 was received from other sources, mainly from fines paid on overdue books. Our expenses amounted to \$67,263.48. It has always been our aim to carry over each year a small surplus with which to meet demands for necessary expenses incurred in the interim between the beginning of the fiscal year and the time when the receipts from taxes become available. By careful management we have been able to carry forward a somewhat larger sum this year and we have done so that we might be in a position to carry out certain plans which we have for the extension of Library facilities.

As shown more in detail by the Librarian's report, the Library continues to grow satisfactorily both in size and usefulness. The cardholders entitled to take books from the Library now number 40,479, while there were issued for home use books to the number of 830,225. Two more deposit stations have been opened, one at oceanside and one in the Rialto Building. The branches and deposit stations have generally been established in residence districts distant from the main Library. In respect to location, the Rialto Station is a new departure and, therefore, to some extent an experiment, as it is situated in one of the busiest of the business districts. The persons who are expected to patronize this station, however, have little time in which to visit the Main Library or even the branches, to obtain reading matter bearing on their varied professions and lines of business, and so the Trustees decided to bring the Library privileges to their very doors.

The City is to be congratulated on being now in possession of the handsome branch Library building presented to it by Mr. Andrew B. McCreery. Mr. McCreery watched the erection of the building with great interest, and in his desire that it should be lacking in no detail, he increased the amount of his original gift from time to time until the building and fixtures as they stand represent an outlay of more than \$50,000. To crown it all he has now placed at our disposal the sum of \$5,000.00 for the purchase of books for this branch in order that its work might be brought to the highest standard of usefulness. A seventh branch referred to in Presidents Lilienthal's report for 1903 is much needed in the district south of the Park Panhandle, but the Trustees have been unable to find a suitable place for a reasonable rental unless they lease the premises for a term of years, a policy to which they are opposed. The City should own its Library buildings, as apart from the rent, the expense of frequently fitting up rooms for library purposes should be avoided.

Branch No. 3, at North Beach, is exceedingly badly housed and unless the City can acquire a lot and building in which to carry on the business of this important branch of the library, I fear we shall be compelled to discontinue it. Out of the incomes of 1905 and 1906 we may be able to save enough to purchase lots for these branches but not sufficient to obtain a site and erect a building for either of them. A North Beach McCreery is badly needed just now.

Among the improvements contemplated and provided for by the bond issue approved by the Supreme Court, August 15, 1904, were the purchase of a site and the erection of a building for the Main Library. It has been estimated that a suitable site could be obtained for \$647,000, while for the building it was estimated that \$1,000,000 would be required, and by the Supreme Court decision bonds for these amounts were made available. Steps were immediately taken to secure information on the latest developments in library architecture so that in the erection of a building no detail might be neglected that could in any way make it better suited to the purpose for which it was designed. The Librarian having been granted permission to attend the meeting of the American Library Association at St Louis, was instructed to visit the more important library buildings recently erected or designed in the east, to secure plans thereof, and to consult the administering librarians relative to the improvements or mistakes in the construction of these edifices. In this way a large amount of valuable material has been secured, which will be of great value to us in preparing a program for the architectural competition which will be held.

In selecting a site for the Library it seemed to keep as near as possible to the City's main artery, Market Street. The declaratory ordinance named Western Addition block No. 67, bounded by Polk street on the east, Fulton street on the north, Van Ness avenue on the west, and Grove street on the south, "or a parcel or lot of land of similar size and like value and in the immediate neighborhood of said block." Before making final selection the Library Board looked the ground over carefully and finally decided that block No. 73 extending west from Van Ness avenue to Franklin street between Fell and Hayes streets was in every way the most suitable. It was near to Market street and hence readily accessible by car line from any part of the City.

Therefore, it was unanimously recommended by the Library Trustees that Western Addition block No. 73 be acquired as a site for the proposed library building. The Board of Supervisors with great courtesy acted favorably upon the recommendation and at a meeting held March 6, 1905, passed a resolution providing for the purchase of the block named. The property was held in fifteen separate parcels, but at this writing through the diligent efforts of those having the matter in hand, a large portion of the property has been acquired on very favorable terms and it is a question of but a short time when the title to the entire block will be vested in the City. Thus, the first great step has been taken in the work of providing the Library with a home of its own. To the Board of Supervisors and the Executive Department of the City government, through whose efforts so much has been accomplished, we take this opportunity of expressing our warm appreciation for their hearty co-operation.

Respectfully submitted,

J. O'CONNOR,
President of the Board of Trustees

PUBLIC LIBRARY

BOARD OF TRUSTEES.

JOSEPH O'CONNOR, (President)	Mission High School
JOHN H. WISE	318 Pine Street
P. N. LILIENTHAL	Anglo-Californian Bank
EDWARD R. TAYLOR	520 California Street
A. L. MANN	2222 Clay Street
RALPH C. HARRISON	Parrott Building
GEO. T. SHAW	Grand Secretary Grand Lodge I. O. O. F., Odd Fellows' Building
COLIN M. BOYD	216 Sansome Street
HORACE DAVIS	133 Spear Street
THOMAS B. BISHOP	532 Market Street
SHELDON G. KELLOGG	Crocker Building

THE MAYOR, ex-officio.

GEORGE A. MULLIN, Secretary.

COMMITTEE CHAIRMAN.

RALPH C. HARRISON	Books
GEO. T. SHAW	Building
EDWARD R. TAYLOR	Finance
JOHN R. WISE	Rules and Administration
A. L. MANN	Branches
COLIN M. BOYD	Municipal Relations
P. N. LILIENTHAL	Printing and Binding
THOMAS B. BISHOP	Law

LIBRARIAN.

George T. Clark.

LIBRARY DIRECTORY.

Main Library	N. E. Wing, City Hall
Branch No. 1, Mission	2664 Mission Street
Branch No. 2, McCreery	Sixteenth Street near Guerrero Street
Branch No. 3, North Beach	1505 Powell Street
Branch No. 4, Richmond	254 Fourth Avenue
Branch No. 5, Phelan	Corner Fourth and Clara Streets
Branch No. 6, Fillmore	2435 Sacramento Street
Station A, Ocean View	145 Broad Street
Station B, Potrero	Corner Nineteenth and Kentucky Streets
Station C, Noe Valley	1301 Castro Street
Station D, Sunset	Ninth Avenue near H Street
Station E, South San Francisco	1200 Railroad Avenue
Station F, Polk Street	1639 Polk Street
Station G, Oceanside	I Street near Ocean Boulevard
Station H, Rialto	Corner of Mission and New Montgomery Streets

Secretary's Report

To the Trustees of the San Francisco Public Library:

Gentlemen—Following is a statement showing the Receipts and Expenditures for the year ending June 30, 1905:

RECEIPTS.			
Balance in Treasury June 30, 1904.....		9,749.13	
Cash on hand (with Secretary) June 30, 1904		203.35	
From Taxes	\$75,490.99		
Fines collected	2,774.30		
Books lost and paid for	165.95		
Bindings injured and paid for	3.05		
Catalogues sold	13.95		
Reserve postals sold	207.10		
Old newspapers sold	125.65		
Duplicate copies of books sold	6.00		
Total receipts		\$78,786.99	
DISBURSEMENTS.			\$88,739.47
Salaries.....	\$42,022.90		
Books.....	11,494.67		
Periodicals.....	2,117.78		
Printing.....	1,795.01		
Binding	3,692.13		
Stationery	117.06		
Cataloguing cards	265.00		
Electric power	27.52		
Fire insurance.....	185.55		
Furniture and repairs	2,946.95		
Expense—sundry.....	978.56		
Fuel	251.00		
Rent of branches	1,272.00		
Water for branches Nos. 2, 5 and 6	97.35		
Total disbursements		67,263.48	
Balance in Treasury June 30, 1905		21,260.09	
Cash on hand (with Secretary) June 30, 1905		215.90	
			\$88,739.47

STATEMENT OF EXPENSES FOR

	Branch 1.	Branch 2.	Branch 3.	Branch 4.	Branch 5.	Branch 6.
Salaries	2,319.70	2,024.10	1,639.70	1,153.80	2,054.65	2,142.80
Rent	420.00	120.00	420.00	312.00		
Furniture and repairs	28.55	412.39	16.31	12.60	39.70	199.05
Fuel	35.50	67.00	23.00	1.00	74.50	20.00
Expense—sundry	7.40	16.70	4.05	5.25	5.50	10.40
Insurance	19.40	22.80	17.00	6.55	23.80	
Daily Papers	34.05	34.35	36.60	38.50	48.45	40.80
Water		58.90			24.45	14.00
Periodicals	105.98	78.08	109.13	69.53	78.08	119.93
Binding	380.89	210.03	178.66	128.46	161.33	333.16
Books	721.05	1,014.49	505.47	388.69	412.57	989.21
Totals	4,072.52	4,058.84	2,949.92	2,116.38	2,923.03	3,869.35

RECORD OF DELINQUENTS.

Fines.	Amount.	Total.
31,325 fines collected, amounting to	\$2,774.30	
643 fines uncollected, amounting to	260.30	
31,968 total fines imposed, amounting to		\$3,034.60

BOOKS LOST AND BORROWERS' CARDS CANCELLED.

Main Library, 20 volumes, amounting to	19.62	
Branch No. 1, 1 volume, amounting to	80	
Branch No. 2, 6 volumes, amounting to	3.74	
Branch No. 3, 3 volumes, amounting to	2.07	
Branch No. 5, 3 volumes, amounting to	2.07	
Branch No. 6, 2 volumes, amounting to	1.40	
Station F, 1 volume, amounting to .....	.93	
Total, 36 volumes, amounting to		30.63

BRANCHES AND STATIONS

Station A	Station B	Station C	Station D	Station E	Station F	Station G	Station H	Deposit Coll.	Total.
204.00	144.00	162.00	144.00	144.00	162.00	27.60			12,322.35
						24.00	16.50		1,272.00
									749.10
			22.85	13.95	.50	1.70			221.00
.50	14.40								103.20
									89.55
									232.75
									97.35
									560.73
									1,392.53
								370.84	4,402.32
204.50	158.40	162.00	166.85	157.95	162.50	53.30	16.50	370.84	21,442.88

Books of Deposit Collection have been distributed to Branches and Stations.
Respectfully submitted,

GEO. A. MULLIN,
Secretary.

July 1, 1905.

Report of Librarian.

To the Trustees of the Public Library:

Gentlemen—I have the honor to present herewith in accordance with the rules of your Honorable Board the report of the Librarian for the year ending June 30, 1905.

In looking back over the records for the year there seems to be little in the internal affairs of the Library out of the usual routine worthy of special comment. While in various ways we have sought to improve on existing methods and to further extend the usefulness of the Library, there have been no radical changes and the record is one of orderly growth and development.

The cardholders now number 40,479 a gain during the year of 1,938. A card may be used either at the Main Library or at any of the branches or stations, but assuming that cards applied for through a certain branch are used at that branch we have at hand data showing how our patrons are distributed. On this basis the number of cardholders dealing directly with the Main Library is 19,417. The remainder are applicants at the respective branches and stations. The Mission branch having the largest clientele, its cardholders numbering 5,780. As noted in previous reports, the combined patronage of the branches and stations slightly exceeds that of the Main Library, and the margin of difference will undoubtedly increase as we add to such agencies for book distribution. The removal of the Eureka Valley branch into the new and commodious McCreery building brought in many new readers, but at the same time the improved facilities of the branch undoubtedly attracted patrons from both the Main Library and the Mission branch.

The whole number of books issued for home use was 830,225. Of these 384,424 were from the Main Library and 445,801 were from the Branch and station collections. Books sent on request from the Main Library for circulation through the branches and stations amounted to 28,451 volumes. Comparison of the statistics showing the character of the books used reveals the growing demand for the literature of knowledge and power. For example, four years ago the recorded use of Main Library books in the classes of science and the useful arts was 41,546 volumes, while for the year just closed the use of books in the same classes is 52,356 volumes.

ACCESSIONS.

Our purchases have been confined largely to replacements and to recent publications, but in accordance with our practice we have endeavored so far as possible to fill lacunae and to add books that would enhance the permanent value of the collection. From the private libraries of the late Col. Leander Ranson and of the late Chief I. W. Lees we had the somewhat rare opportunity of purchasing a number of old pamphlets of considerable local interest and value. The large use of books on the applied sciences has made it desirable to purchase rather liberally works of that character. Through the very kind offices of the Kirke departementet, Kristiania, we have purchased two lots of Scandinavian books to help build up a hitherto neglected section of the Library. Altogether the purchases for the year aggregate 13,529 volumes. Against this must be placed the item of 8,892 volumes condemned and withdrawn, leaving a net increase of 4,637 volumes. A statement showing the apportionment of the book fund forms Appendix VI of this report.

For some months past it has been our practice to place the new books upon a display rack where they can be freely examined. They are kept upon the rack for one week and thereafter are available for circulation while a new lot is substituted for display. The opportunities thus afforded have been largely availed of by our patrons, apparently with much satisfaction.

CATALOGUE DEPARTMENT.

The work of this department has proceeded without interruption. All the 13,000 and more volumes received have here been classified, shelf-listed, catalogued and otherwise put through the processes necessary to prepare them for the shelves. The catalogue cards which we purchase from the Library of Congress for a large proportion of the new publications are of material assistance, for without them even more time would be required for the accomplishment of all the necessary details. Aside from the current work, much has been done on the catalogue of books of history, biography and travel and it is now almost ready for the printer.

BRANCHES AND STATIONS.

These agencies continue to be most effective in extending the use of the Library. In October the Eureka Valley branch was removed to the new McCreery building, where it was formerly opened on the 25th of that month. Although for more than two years this branch had occupied rooms within a stone's throw of the site of the new building, its removal to commodious and attractive surroundings brought in about 1,300 new card holders, and increased the circulation of the branch by nearly 50 per cent. The other branches continue in practically the same condition as reported last year.

Two new deposit stations have been opened, one (G) at the Beach settlement known as Oceanside and the other (H) at the corner of Mission and New Montgomery streets, making eight of these agencies now in operation. Station H, in so far as its situation is concerned, is a departure from our usual practice, being in a business rather than a residence district. It will be interesting to watch its progress and to note the character of the demands made upon it. The Polk street station continues to serve numerous cardholders and has developed an unusually large station circulation in view of the facilities offered.

LIBRARY SERVICE.

For a long time, in fact, ever since it commenced to circulate books, it has been the practice of this Library to employ boys as runners to get books and to replace them upon the shelves. In addition to the boys employed on full time, we have at the Main Library and in some of the branches several High School students working on partial time, chiefly in the evening hour. From these lads as a rule we get faithful and intelligent service. For the full time schedules, however, it is the exception when we can secure a lad who has completed even the Grammar school course. For boys of this character there can be no alluring prospect of advancement in the Library service. The ambitious ones are quick to see this and soon drop out to take up some line of work presenting more opportunities of promotion. With rather indifferent material to start with, and that undergoing frequent change in personnel, this portion of the service is not up to the standard we would like to maintain. I am satisfied that if we could eliminate indiscriminating runners from the process of getting books from the shelves to the readers and instead thereof adopt the plan in considerable vogue elsewhere of having the attendant who receives the request and issues the book be the one who shall also get it, the service would be greatly improved. It is at the Delivery Desk that the majority of our cardholders come in direct contact with the Library and it is unfortunate that at that point they should touch upon the weakest link in the whole chain of the service.

The rules governing appointments to the Library staff have been in force since 1895 and under their provisions we have secured some very excellent assistants. In the light of experience, however, I think some changes in the provisions could advantageously be made. The main test for candidates for positions on the eligible list is the written examination for the purpose of ascertaining their educational qualifications. It sometimes happens that eligibles who have stood high in the examinations, turn out

to be temperamentally disqualified from ever becoming efficient members of the Library staff, while others ranking lower in the examinations in actual work prove themselves capable and satisfactory in every particular. By using our eligibles as substitutes we have ample opportunity to try them in the different phases of the work and so ascertain with considerable accuracy their aptitude for it, but so long as a place on the list of eligibles is understood to mean an appointment in turn, a refusal to appoint seems almost like a breach of faith. By amending the rules so that it would be distinctly understood that final selection was contingent upon a satisfactory probationary service, greater freedom of choice might be exercised.

The appended tables exhibit in detail the Library activities for the year. In closing I beg to again assure your Honorable Board, personally, as well as on behalf of the members of the staff, of our keen appreciation of the eminently just and considerate treatment we have ever experienced at your hands.

Respectfully Submitted,

GEORGE T. CLARK,

Librarian.

APPENDIX I.

STATEMENT OF ACCESSIONS.

Volumes in Main Library July 1, 1904		124,169
Added by purchase	5,392	
Added by gift	892	
Added by binding serials and pamphlets	803	
Total	<u>7,087</u>	
Less volumes withdrawn	4,931	
Net increase		2,156
Volumes in Main Library June 30, 1905		<u>126,325</u>
Volumes in Branch Libraries and Deposit Collection July 1, 1904		31,651
Added	6,442	
Less volumes withdrawn	3,961	
Net increase		<u>2,481</u>
Volumes in Branch Libraries and Deposit Collection June 30, 1905		<u>34,132</u>
Total volumes received during year		13,529
Volumes in Library system, June 30, 1905		<u>160,457</u>

USE OF BOOKS.

Volumes issued at Main Library for home use	384,424	
Volumes issued at Branch Libraries and Stations for Library use	<u>*445,801</u>	830,225
Volumes issued at Main Library for Library use	207,209	
Volumes issued at Branch Libraries for Library use	68,714	
Total		<u>1,106,148</u>

CARD-HOLDERS.

Borrowers' cards issued 1903-4	19,624	
Borrowers' cards issued 1904-5	<u>20,918</u>	
Total issue for two years		40,542
Borrowers' cards cancelled (two years)		<u>63</u>
Cards in force, June 30, 1905		<u>40,479</u>

*Not including volumes sent from Main Library.

APPENDIX III—CIRCULATION OF BRANCH LIBRARIES AND STATIONS.

	1905												Total.
	July.	August.	September	October.	November.	December.	January.	February.	March.	April.	May.	June.	
Branch Library No. 1.													
Home use, Books from Branch.....	10,489	10,940	9,872	10,758	10,262	9,486	10,785	10,205	11,704	11,146	11,490	11,259	128,396
Home use, Books from Main Library.....	283	339	295	358	296	308	325	311	335	315	366	392	3,923
Library use.....	700	919	795	793	736	626	797	738	995	837	760	743	9,439
Total	11,472	12,198	10,962	11,909	11,294	10,420	11,907	11,254	13,034	12,298	12,616	12,394	141,758
Daily average	438	429	426	425	443	380	453	459	457	463	462	453	
McCreery Branch No. 2													
Home use, Books from Branch.....	4,486	4,448	4,337	4,905	7,023	6,666	7,425	6,561	7,731	6,868	7,234	6,478	74,162
Home use, Books from Main Library.....	270	297	238	246	243	200	213	226	282	252	235	216	2,918
Library use.....	507	775	774	856	1,856	989	1,195	1,146	1,504	1,229	1,045	982	12,858
Total	5,263	5,520	5,349	6,007	9,122	7,855	8,833	7,933	9,517	8,349	8,514	7,676	89,938
Daily average	171	193	209	246	355	288	332	325	333	312	311	241	
Branch Library No. 3.													
Home use, Books from Branch.....	3,723	4,213	3,962	4,235	4,135	3,786	4,306	4,055	4,534	3,994	4,123	4,199	49,265
Home use, Books from Main Library.....	357	490	431	443	417	420	387	473	681	539	579	502	5,719
Library use.....	714	1,208	908	1,203	1,105	895	1,231	979	1,118	849	793	852	11,839
Total	4,794	5,911	5,301	5,881	5,657	5,101	5,924	5,507	6,333	5,382	5,495	5,553	66,839
Daily average	155	209	209	212	208	184	228	229	223	204	109	205	
Branch Library No. 4.													
Home use, Books from Branch.....	2,195	2,499	2,379	2,499	2,448	2,354	2,818	2,655	3,169	3,057	3,151	3,007	32,231
Home use, Books from Main Library.....	133	136	141	168	157	182	185	263	255	230	225	211	2,286
Library use.....	315	413	455	472	443	402	556	552	538	458	524	453	5,581
Total	2,643	3,048	2,975	3,139	3,048	2,938	3,559	3,470	3,962	3,745	3,900	3,671	40,098
Daily average	100	107	115	113	120	110	133	142	141	139	142	134	

APPENDIX III—CIRCULATION OF BRANCH LIBRARIES AND STATIONS—Continued.

	1904												1905						Total
	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.							
Phelan Branch No. 5.																			
Home use, Books from Branch.....	3,206	3,487	3,304	3,467	3,126	2,858	3,273	3,161	3,422	3,286	3,486	3,376	39,452						
Home use, Books from Main Library	78	60	64	77	59	48	70	82	114	92	74	68	886						
Library use.....	1,676	1,490	1,213	1,364	1,258	1,609	1,758	1,401	1,408	1,350	1,194	1,184	16,905						
Total	4,960	5,037	4,581	4,908	4,443	4,515	5,101	4,644	4,944	4,728	4,754	4,628	57,243						
Daily average.....	188	179	180	175	174	166	192	187	172	178	173	169							
Branch Library No. 6.																			
Home use, Books from Branch.....	7,484	8,265	7,697	8,396	8,071	7,475	8,019	7,750	8,641	8,013	8,552	8,125	96,488						
Home use, Books from Main Library	488	516	522	595	545	499	545	529	564	531	521	525	6,380						
Library use.....	736	1,088	1,015	1,092	1,268	1,047	1,173	1,246	1,037	874	797	683	12,076						
Total	8,708	9,869	9,234	10,083	9,884	9,021	9,737	9,525	10,202	9,418	9,870	9,333	114,944						
Daily average.....	336	364	361	361	392	332	371	392	361	358	363	345							
Station A.																			
Home use, Books from Station.....	353	348	281	298	275	325	325	326	313	318	296	267	3,725						
Home use, Books from Main Library	165	126	133	162	149	163	156	153	146	128	125	73	1,679						
Total	518	474	414	460	424	488	481	479	459	446	421	340	5,404						
Station B.																			
Home use, Books from Station.....	216	262	304	320	243	217	274	217	279	214	228	219	2,993						
Home use, Books from Main Library	61	69	50	51	67	33	67	56	55	41	61	67	678						
Total	277	331	354	371	310	250	341	273	334	255	289	286	3,671						

APPENDIX IV—BRANCH LIBRARIES SUMMARY, 1904-1905.

	Br. No. 1. Mission.	Br. No. 2. McCreery.	Br. No. 3. N. Beach.	Br. No. 4. Richmond.	Br. No. 5. Pheian.	Br., No. 6. Fillmore.	Total.
Books used	141,758	89,938	66,839	40,098	57,243	114,944	510,820
Cards issued	2,978	2,291	1,278	656	975	2,259	10,437
Cards in force	5,780	3,344	2,546	1,269	1,965	4,620	19,524
Volumes in Library July 1, 1904	8,108	3,624	4,570	2,712	3,940	6,509	29,463
Volumes added	1,471	1,557	651	428	648	1,290	6,045
Volumes withdrawn	1,417	446	455	191	494	904	3,907
Net increase	54	1,111	196	237	154	386	2,138
Volumes in Library June 30, 1905	8,162	4,735	4,766	2,949	4,094	6,895	31,601

APPENDIX V.
BOOKS ISSUED FOR HOME USE, 1880-1905.

	Main Library	Branch No. 1	Branch No. 2	Branch No. 3	Branch No. 4	Phelan Branch No. 5	Branch No. 6	Stations	Total
1880-1	137,369								137,369
1881-2	194,112								194,112
1882-3	201,114								201,114
1883-4	183,719								183,719
1884-5	186,268								186,268
1885-6	159,373								159,373
1886-7	151,007								151,007
1887-8	89,313								89,313
1888-9	92,192	5,359	4,726	7,163					109,440
1889-90	121,429	13,199	5,890	9,713					150,231
1890-1	134,622	17,706	3,978	11,517					167,823
1891-2	139,630	18,592	5,321	13,767					177,310
1892-3	147,957	18,961	7,225	18,031	6,877				199,051
1893-4	140,863	21,260	7,038	18,470	5,851				193,482
1894-5	189,309	25,272	5,586	18,992	5,324				244,483
1895-6	203,987	29,925	7,145	17,883	4,625				263,565
1896-7	249,971	45,424	12,990	31,656	7,987	17,916			365,944
1897-8	268,734	59,615	13,426	35,268	12,453	25,515			415,011
1898-9	340,524	90,395	10,887	48,037	16,410	31,221	7,045		544,519
1899-1900	348,424	106,905	8,454	47,617	15,929	33,833	77,088		638,250
1900-1	376,101	124,144	9,487	50,098	18,626	34,734	98,219		711,409
1901-2	386,664	125,998	14,741	52,713	19,685	42,089	106,731	3,994	752,615
1902-3	366,909	121,477	53,731	48,315	24,653	46,041	105,891	25,192	792,209
1903-4	388,044	130,553	55,224	49,769	28,905	44,286	99,197	24,075	820,053
1904-5	384,424	128,396	74,162	49,265	32,231	39,452	96,488	23,807	830,225

APPENDIX VI.
BOOKS ORDERED JULY 1, 1904, TO JUNE 30, 1905.

CLASS.	Volumes.	Cost.
General works, Encyclopedias, etc	58	182.75
Philosophy and Theology	104	180.23
Sociology, including education	138	215.70
Science and Useful Arts	343	773.55
Fine Arts, including Architecture and Ornament	117	252.40
Language and Literature	189	302.71
Foreign Literature	153	305.50
English Fiction	744	719.68
Books for the young	517	403.77
Geography and Travel	167	536.29
History and Biography	305	656.16
Replacements, Main Library	3,089	2,390.75
Deposit Collection	401	420.45
For Branch Library No. 1	1,618	1,370.89
For Branch Library No. 2 (McCreery)	1,280	1,195.44
For Branch Library No. 3	571	477.00
For Branch Library No. 4	371	338.35
For Phelan Branch Library No. 5	642	539.25
For Branch Library No. 6	1,317	1,161.09
Total	12,124	\$12,422.26

REPORT
OF THE
Superintendent of Public Schools
For the Fiscal Year 1904-1905.

San Francisco, July 1, 1905.

To the Honorable Board of Education, in and for the City and County of San Francisco:

Gentlemen:—In accordance with the law, the Superintendent of Common Schools has the honor to submit herewith the Fifty-second Annual Report on the Public Schools of the City and County of San Francisco for the fiscal year terminating June 30, 1905.

W. H. LANGDON,
Supt. of Schools.

ANNUAL STATISTICAL REPORT OF THE SUPERINTENDENT OF SCHOOLS.

General Statistics.

Fiscal Year Terminating June 30.	1904	1905
Population of city (estimated).....	435,000	450,000
Number of youth in city under 17 years of age....	118,324	117,623
Number of school census children in the city upon which the appointment of state school funds is made.....	97,353	98,178
Assessment roll of taxable property of city.....	\$545,866,446	\$ 524,392,047.32
RECEIPTS OF SCHOOL DEPARTMENT.		
Balance on hand July 1.....	\$ 62,409.02	\$67,383.28
State apportionment.....	799,240.22	987,010.56
City taxes.....	507,521.69	323,364.32
Rents, etc.....	59,148.75	58,476.75
Total.....	\$1,428,319.68	\$1,436,234.91
City and County tax per \$100.....	.096	.064
Estimated value of school sites.....	\$5,000,000.00	\$5,005,000.00
Estimated value of school buildings.....	1,609,000.00	1,648,909.75
Estimated value of school furniture.....	160,000.00	165,000.00
Estimated value of school libraries.....	24,750.00	25,000.00
Estimated value of school apparatus.....	35,000.00	35,500.00
	\$6,828,750.00	\$6,879,409.75
Total receipts 1904-1905.....		\$1,436,234.91
Total expenditures 1904-1905.....		1,405,215.80
Surplus on hand July 1, 1905.....		31,019.11

Note—Figures for Financial Report furnished by Board of Education.

	1904	1905
SCHOOLS.		
Number of High Schools.....	6	7
Number of Grammar Schools.....	23	27
Number of Primary Schools.....	47	46
Number of Evening Schools.....	6	6
Total number of schools.....	82	86
Number of Brick school buildings owned by the Department.....	7	7
Number of wooden school buildings owned by the Department.....	66	66
Number of buildings or rooms rented by the department.....	60	60
Total number of buildings owned by the Department.....	133	133

State Enrollment.	SCHOOL ATTENDANCE.	1905
High Schools (7).....		4,105
Grammar Schools (27).....		22,519
Primary Schools (46).....		21,738
Evening Schools (6).....		6,713
Total (86).....		55,076

AVERAGE NUMBER BELONGING.

High Schools.....	3,076
Grammar Schools.....	18,970
Primary Schools.....	17,368
Evening Schools.....	2,526
	41,940

AVERAGE DAILY ATTENDANCE.

High Schools.....	2,870
Grammar Schools.....	18,180
Primary Schools.....	16,476
Evening Schools.....	2,194
	39,720

COMPARATIVE STATEMENT OF THE NUMBER ENROLLED AND THE
AVERAGE DAILY ATTENDANCE IN THE PUBLIC
SCHOOLS SINCE 1895.

	Number Enrolled	Average daily Attendance
During the Year ending June 30, 1895.....	44,822	32,974
During the ending June 30, 1896.....	45,435	33,508
During the year ending June 30, 1897.....	46,564	33,531
During the year ending June 30, 1898.....	50,101	35,116
During the year ending June 30, 1899.....	48,870	36,940
During the year ending June 30, 1900.....	48,058	35,004
During the year ending June 30, 1901.....	48,517	34,771
During the year ending June 30, 1902.....	49,090	35,943
During the year ending June 30, 1903.....	52,906	36,965
During the year ending June 30, 1904.....	52,969	37,797
During the year ending June 30, 1905.....	55,076	39,720

SCHOOL CENSUS REPORT SUBMITTED BY CHIEF CENSUS CLERK MR. T. E. ATKINSON, FOR THE YEAR ENDING JUNE 30, 1905, AS COMPARED WITH THE CORRESPONDING REPORT FOR THE YEAR ENDING JUNE 30, 1904.

Number of white children between 5 and 17 years of age—

Boys.....	48,036
Girls.....	46,809

Total.....	94,845
School census, 1904.....	93,555

Increase.....	1,290
---------------	-------

Number of negro children between 5 and 17 years of age:

Boys.....	340
Girls.....	331

Total.....	671
School Census, 1904.....	462

Increase.....	209
---------------	-----

Number of Indian children between 5 and 17 years of age:

Girls.....	1
School Census, 1904.....	0

Increase.....	1
---------------	---

Native born Mongolians between 5 and 17 years of age:

Boys.....	1,739
Girls.....	922

Total.....	2,661
School census, 1904.....	3,325

Decrease.....	664
---------------	-----

Total number of census children between 5 and 17 years of age..... 98,178

School Census, 1904..... 97,353

Increase.....	825
---------------	-----

Number of children under 5 years of age:

White.....	19,267
Negro.....	102
Mongolian.....	76

Total.....	19,445
School Census, 1904.....	20,971

Decrease.....	1,526
---------------	-------

Number of children between 5 and 17 years of age who have attended public schools at any time during the school year.....	58,962
School Census, 1904.....	58,856
Increase.....	106
Number of children between 5 and 17 years of age who have attended private schools, but no public schools at any time during the year.....	24,646
School Census, 1904.....	20,978
Increase.....	3,668
Number of children between 5 and 17 years of age who have not attended school at any time during the school year.....	14,570
School Census, 1904.....	17,519
Decrease.....	2,949
Nativity of children:	
Native born.....	115,847
Foreign born.....	1,776
Total.....	117,623
School Census, 1904.....	118,324
Decrease.....	701
Total decrease of children under 17 years of age.....	701

COMPARATIVE STATEMENT OF THE NUMBER OF CHILDREN IN THE
CITY FROM 1895 to 1905, INCLUSIVE.

As reported by the Census Marshals.

Under seventeen years of age.	Number
May, 1895.....	93,558
May 1896.....	94,925
May 1897.....	98,506
May 1898.....	98,091
May 1899.....	98,368
May 1900.....	102,022
May 1901.....	105,512
May 1902.....	105,911
May 1903.....	111,190
May 1904.....	118,324
May 1905.....	117,623

NUMBER OF TEACHERS IN DEPARTMENT JUNE 30, 1905

	Men	Women	Total
Number of teachers in High Schools.....	61	54	115
Number of teachers in Grammar Grades.....	29	345	374
Number of teachers in Primary Grades.....	3	507	510
Number of High, Commercial, Grammar, Primary and Evening School Principals without classes.....	24	45	69
Supervisor of Music.....	0	1	1
Asst. Supervisor of Music.....	0	1	1
Supervisor of Drawing.....	0	1	1
Asst. Supervisor of Drawing.....	0	1	1
Supervisor of Manual Training.....	1	0	1
Asst. Supervisors of Manual Training.....	6	0	1
Supervisor of Cookery.....	0	1	6
Asst. Supervisors of Cookery.....	0	4	4
Supervisor of Physical Culture.....	1	0	1
Asst. Supervisors of Physical Culture.....	1	1	2
Day Substitutes.....	2	70	72
Evening Substitutes.....	9	13	22
Totals.....	137	1,044	1,181

STATEMENT OF GAINS AND LOSSES IN THE DEPARTMENT FOR SCHOOL YEAR ENDING JUNE 30, 1905.

Number of teachers in Department June 30, 1904.....		1,094
Losses:		
By resignation.....	23	
By retirement.....	1	
By death.....	2	26
		<hr/> 1,068
Gains:		
Teachers elected from July 1, 1904, to June 30, 1905.....		113
Total.....		<hr/> 1,181

NUMBER OF TEACHERS IN DEPARTMENT BY GRADES—JUNE 30, 1905.

	Special	Primary	Grammar	Principals without Classes	Total	Men	Women
PRIMARY SCHOOLS							
1. Agassiz		13	3	1	17		17
2. Bergerot		2	2		4		4
3. Buena Vista		9	2	1	12		12
4. Chinese		7	1	1	9		9
5. Cleveland		9	1	1	11		11
6. Cooper		12		1	13		13
7. Deaf and Dumb	3				3	1	2
8. Douglas		9	1	1	11		11
9. Dudley Stone		12	3	1	16		16
10. Edison		8	2	1	11		11
11. Emerson		12	2	1	15		15
12. Garfield		13	1	1	15		15
13. Golden Gate		7	1	1	9		9
14. Grant		5	3	1	9		9
15. Haight		10	2	1	13		13
16. Harrison		6	1		7		7
17. Hawthorne		8	2	1	11		11
18. Henry Durant		11	1	1	13		13
19. Humboldt		10	2	1	13		13
20. Hunter's Point		1			1	1	
21. Irving		7	1	1	9		9
22. Jackson		4	2		6		6
23. Jefferson	1	7	1	1	10		10
24. John W. Taylor		1	1		2		2
25. Lafayette		11		1	12		12
26. Laguna Honda		4	2		6		6
27. Madison		4	1		5		5
28. Marshall		13		1	14		14
29. Monroe		6	3	1	10		10
30. Moulder		10	2	1	13		13
31. Noe Valley		11		1	12		12
32. Ocean House		1			1	1	
33. Oceanside		2	1		3		3
34. Park		5			5		5
35. Peabody		9	2	1	12		12
36. Redding		9	1	1	11		11
37. Sheridan		5	3	1	9		9
38. Sherman		10	2	1	13		13
39. South End		4	2		6		6
40. Starr King		11	1	1	13		13
41. Sunny Side		2	2		4		4
42. Sutro		5	4	1	10		10
43. West End		1	2		3		3
44. Whittier		16	2	1	19		19
45. Winfield Scott		3	2		5		5
Total	4	325	67	30	426	3	423

NUMBER OF TEACHERS IN DEPARTMENT BY GRADES, JUNE 30, 1905.

Continued.

	Special.....	Primary.....	Grammar.....	Principals without Classes.....	Total.....	Men.....	Women.....
GRAMMAR SCHOOLS.							
1. Adams Cosmopolitan.....	2	3	14	1	20	2	18
2. Bernal.....	..	9	5	1	15	..	15
3. Burnett.....	..	7	6	1	14	1	13
4. Clement.....	..	8	8	1	17	1	16
5. Columbia.....	..	12	8	1	21	..	21
6. Crocker.....	12	1	13	1	12
7. Denman.....	..	7	8	1	16	1	15
8. Everett.....	..	10	9	1	20	1	19
9. Fairmount.....	..	11	5	1	17	..	17
10. Franklin.....	..	9	10	1	20	2	18
11. Fremont.....	..	8	7	1	16	..	16
12. Hamilton No. 1.....	15	1	16	1	15
13. Hamilton No. 2.....	3	..	8	1	12	4	8
14. Hancock.....	2	1	10	1	14	2	12
15. Hearst.....	..	14	9	1	24	..	24
16. Horace Mann No. 1.....	18	1	19	1	18
17. Horace Mann No. 2.....	3	1	10	1	15	4	11
18. Humboldt No. 2.....	6	..	6	3	3
19. Irving M. Scott.....	..	10	6	1	17	..	17
20. James Lick.....	..	1	10	1	12	2	10
21. Jean Parker.....	..	8	7	1	16	..	16
22. John Swett.....	..	9	9	1	19	1	18
23. Lincoln No. 1.....	..	13	7	1	21	2	19
24. Lincoln No. 2.....	..	3	24	2	29	8	21
25. Mission.....	14	1	15	..	15
26. Pacific Heights.....	..	6	11	1	18	..	18
27. Parental.....	3	1	4	1	3
28. Richmond No. 1.....	..	8	4	1	13	..	13
29. Richmond No. 2.....	3	..	3	1	2
30. Rincon.....	..	7	5	1	13	..	13
31. Spring Valley.....	..	8	7	1	16	1	15
32. Washington No. 1.....	..	8	5	1	14	3	11
33. Washington No. 2.....	..	1	13	1	15	3	12
Total.....	10	182	296	32	520	46	474

NUMBER OF TEACHERS IN DEPARTMENT BY GRADES, JUNE 30, 1905.

Continued.

	Special	Primary	Grammar	Principals without Classes	Total	Men	Women
1. Commercial	15	..	..	1	16	4	12
2. Commercial Eve.	13	..	..	1	14	5	9
3. Girls'	18	..	..	1	19	6	13
4. Humboldt Eve. High.	21	..	..	1	22	20	2
5. Lowell.	20	..	..	1	21	18	3
6. Mission.	14	..	..	1	15	5	10
7. Polytechnic	14	..	..	1	15	10	5
Total	115	..	..	7	122	68	54
Primary, brought forward	4	325	67	30	426	3	423
Grammar, brought forward	10	182	296	32	520	46	474
High, brought forward	115	..	..	7	122	68	54
Physical Culture	3	..	..	..	3	2	1
Music	2	..	..	..	2	..	2
Drawing	2	..	..	..	2	..	2
Manual Training	7	..	..	..	7	7	..
Cookery	5	..	..	5	5	..	5
Day Substitutes	..	..	72	..	72	2	70
Evening substitutes	..	..	22	..	22	9	13
Total	148	507	457	69	1181	137	1044

Board of Examination

The Board of Examination is composed of

SUPERINTENDENT W. H. LANGDON, Chairman.
 DEPUTY SUPERINTENDENT DANIEL C. DEASY, Secretary.
 DEPUTY SUPERINTENDENT A. A. MACURDA
 DEPUTY SUPERINTENDENT DR. W. B. HOWARD
 DEPUTY SUPERINTENDENT T. L. HEATON

Following is the annual report:

A.

RECOMMENDATIONS TO CITY AND COUNTY BOARD OF EDUCATION FOR THE GRANTING OF CERTIFICATES DURING THE FISCAL YEAR 1904-1905.

GRADE OF CERTIFICATE	On Exami- nations.			On Creden- tials.			Total Recommen- dations.		
	1. Male.....	2. Female.....	3. Total.....	4. Male.....	5. Female.....	6. Total.....	Columns 1 and 4. Male.....	Columns 2 and 5. Female.....	Columns 3 and 6. Total.....
High School.....				6	25	31	6	25	31
Grammar School.....	4	4	8	5	47	52	9	51	60
Kindergarten—Primary.....					2	2		2	2
Special:									
High School Grade:									
Mechanical Drawing.....	4		4				4		4
Architectural Drawing.....	1		1				1		1
Free hand Drawing.....					1	1		1	1
Bookkeeping.....	1	2	3				1	2	3
Cooking.....		2	2					2	2
Sewing.....		2	2					2	2
Commercial Law.....				1		1	1		1
Stenography and Typewriting.....	1		1				1		1
Commercial Geography.....	1		1				1		1
Manual Training.....	1		1				1		1
Mechanical Drawing.....									
Wood Carving and Drawing.....		1	1					1	1
Freehand Drawing and Clay Model- ing.....					2	2		2	2
Grammar School Grade:									
Vocal Music.....		4	4					4	4
	13	15	28	12	77	89	25	92	117

B.

RECOMMENDATIONS FOR PERMANENT CERTIFICATES—1904-1905.

Grade	Male	Female	Total
Grammar School.....	2	15	17
Special.....	1	2	3
	3	17	20

C.

RECOMMENDATIONS FOR RENEWAL OF CERTIFICATES, 1904-1905.

Grade of Certificate	Male	Female	Total
High School.....	2	3	5
Grammar Grade.....	..	77	77
Primary.....	..	7	7
Special:			
Bookkeeping.....	3	4	7
Cookery.....	..	1	1
Drawing Mechanical.....	3	..	3
German.....	1	1	2
Stenography.....	1	2	3
French.....	1	..	1
Manual Training.....	1	..	1
Music.....	..	1	1
	12	96	108

D.

APPLICATIONS MADE TO THE CITY AND COUNTY BOARD OF EDUCATION
FOR RECOMMENDATION TO THE STATE BOARD OF
EDUCATION FOR LIFE DIPLOMAS AND OTHER
EDUCATIONAL DOCUMENTS 1904-05.

	High School			Grammar School			Total		
	1. Male	2. Female	3. Total	4. Male	5. Female	6. Total	4. Columns 1 and 5. Female	6. Columns 2 and 3. Total	
Life Diplomas.....	2	1	3	2	8	10	4	9	13
University Documents.....	..	1	1	..	..	..	1	1	1
Special Life Diplomas.....	..	..	..	1	..	1	1	..	1
	2	2	4	3	8	11	5	10	15

RECEIPTS FROM STATE DIPLOMA FEES 1904-05.

Balance on hand July 1, 1904.....		\$17.00
Received from Life Diploma Fees—		
High School.....	\$4.00	
Grammar School.....	14.00	
Special.....	2.00	20.00
Fee returned by State Superintendent.....		2.00
		<u>\$39.00</u>

The same has been sent to the State Superintendent of Public Instruction,
Hon. Thos. J. Kirk, as follows:

1904—August 30.....	\$21.00
September 21.....	2.00
October 20.....	4.00
1905—January 21.....	4.00
March 16.....	2.00
May 15.....	2.00
June 29.....	4.00
	<u>\$39.00</u>

RECEIPTS FROM CERTIFICATE FEE, 1904-05.

Total receipts.....	\$450.00
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The foregoing receipts have been deposited with the City and
County Treasurer, as follows:

1904—July.....	\$38.00
August.....	26.00
September.....	24.00
October.....	26.00
November.....	20.00
December.....	4.00
1905—January.....	18.00
February.....	22.00
March.....	16.00
April.....	116.00
May.....	76.00
June.....	64.00
	<u>\$450.00</u>

ANNUAL REPORT

OF THE

San Francisco Public School Teachers' Annuity and Retirement Fund and Commissioners

OFFICERS.

MAYOR EUGENE E. SCHMITZ Chairman
SUPERINTENDENT OF COMMON SCHOOLS, W. H. LANGDON Secretary
TREASURER JOHN E. McDOUGALD Treasurer

San Francisco, August 21, 1905.

To the Honorable Board of Supervisors,

in and for the City and County of San Francisco, Cal.

Gentlemen—I have the honor to submit the annual report of the San Francisco Public School Teachers' Annuity and Retirement Fund Commissioners, for the year ending June 30, 1905:

Respectfully submitted,

W. H. LANGDON,
Secretary San Francisco Public School Teachers' Annuity
and Retirement Fund Commissioners.

FINANCIAL STATEMENT FOR SCHOOL YEAR ENDING JUNE 30, 1905.

Receipts.	Amount	Total
1904—July 1, Balance.....		\$30,191.93
Contributions from teachers bound by the Annuity Law	\$10,727.25	
Interest.....	823.06	
Set apart by Board of Education from money deducted from salaries of teachers on account of absence....	3,164.50	
Received in accordance with the Law from teachers retired during the year, viz:		
Sept. 8, Mrs. E. M. North.....	\$252.25	
Aug. 5, Elisha Brooks.....	210.50	
Aug. 13, Miss Isabel Patterson	254.00	
1905—Jan. 7, Miss Kate Elliott.....	233.00	
Jan. 17, Miss E. G. Grant.....	249.00	
March 20, Miss M. A. Smith.....	144.08	
Jan, '05, Donation, Mr. Raphael Weill.....		1,342.83
Concerts, etc.....	45.00	100.00
		\$16,202.64
		46,394.57
Demands paid from July 1, 1904, to June 30, 1905.....		9,603.65
1905—July 1, Balance.....		\$36,790.92
ANNUITY FUND.		
1904—July 1, Balance.....	\$3,003.03	
1905—July 1, 75 per cent of yearly receipts (\$16,202.64).....	12,151.98	\$15,155.01
Disbursements for the year.....		9,603.65
1905—July 1, Balance.....		5,551.36
PERMANENT FUND.		
1904—July 1, Amount in Fund.....	\$27,188.90	
Interest.....	823.06	
1905—July 1, 25 per cent of yearly receipts (\$16,202.64).....	4,050.66	
		32,062.62
Total in both funds on July 1, 1905		\$37,613.98

ANNUITANTS.

Date of Retirement	Name	Annuity per month
1896—January 22	Mrs. Laura T. Hopkins.....	\$50.00
January 22	Miss L. E. Ryder.....	50.00
January 22	Mrs. M. H. Currier.....	50.00
April 24	Miss Victorine M. Raclet.....	45.00
1897—September 11	Miss Mary Solomon.....	50.00
December 8	Miss Fannie L. Soule.....	50.00
1898—March 1	Miss Flora McDonald Shearer.....	36.66½
September 14	Miss Kate Kollmeyer.....	26.66½
1899—April 15	Mrs. S. N. Joseph.....	50.00
April 18	—Miss Mary J. Bragg.....	50.00
June 14	—Miss M. E. Caldwell.....	50.00
August 1	Mrs. E. M. Poole.....	36.66½
August 10	Mrs. C. M. Sisson.....	38.66½
1900—January 9	Miss C. A. Templeton.....	50.00
July 18	Mrs. Aurelia Griffith.....	50.00
July 25	Miss K. F. McColgan.....	50.00
August 1	Miss A. A. Hill.....	50.00
August 1	Miss E. A. Cleveland.....	50.00
August 1	Miss L. M. Barrows.....	45.00
October 15	Miss M. J. Canhan.....	46.66½
1901—July 20	Miss J. B. Gorman.....	50.00
1902—January 2	Mr. A. T. Winn.....	50.00
January 2	Miss L. S. Templeton.....	50.00
January 2	Miss R. G. Campbell.....	50.00
September 28	Miss E. J. Miller.....	36.66½
1903—February 17	Mrs. B. A. Fenton Chinn.....	50.00
July 20	Miss Christine Hart.....	50.00
July 20	Mr. T. B. White.....	50.00
July 20	Mrs. S. A. Miles.....	50.00
August 1	Miss H. M. Fairchild.....	50.00
August 1	Miss Lydia Hart.....	36.66½
September 1	Miss A. E. Slavan.....	50.00
October 1	Miss Jean Parker.....	50.00
October 15	Miss L. Burham.....	37.50
1904—August 1	Miss Isabella Patterson.....	50.00
August 1	Mr. Elisha Brooks.....	50.00
September 1	Mr. E. M. North Whitcomb.....	50.00
1905—January 16	Miss E. G. Grant.....	50.00
March 1	Miss Margaret Smith.....	33.33½

DECEASED ANNUITANTS.

Name.	Date of Retirement	Died.	Pension Received
William White.....	Sept. 19, 1895	May 8, 1896	\$345.00
Mrs. Mary J. Cline.....	Jan. 22, 1896	Nov. 4, 1898	1,670.00
Miss Cornelia Campbell.....	April 24, 1896	Dec. 15, 1900	2,785.00
Mrs. Josephine Gerichten.....	Jan. 19, 1897	Mar. 9, 1901	2,233.50
Miss A. M. Dore.....	Sept. 11, 1897	Jan. 1, 1902	2,371.65
George Brown.....	Sept. 12, 1898	Mar. 23, 1901	741.65
Miss A. M. Manning.....	Aug. 10, 1899	Sept. 5, 1901	1,110.70
Miss N. S. Baldwin.....	Mar. 1, 1900	May 12, 1901	646.65
Miss N. G. Sullivan.....	July 25, 1900	Aug. 15, 1901	511.75
Mrs. J. D. Cooper.....	June 4, 1901	Aug. 5, 1901	133.35
Mrs. E. M. Baumgardner.....	Aug. 10, 1899	Mar. 9, 1903	1,651.35
Mrs. H. A. St. John.....	Jan. 22, 1896	April 2, 1904	3,215.70
Miss E. M. Molloy.....	Jan. 19, 1897	Nov. 16, 1903	3,446.00
Mrs. T. M. Sullivan.....	Mar. 1, 1900	Mar. 22, 1904	1,666.70
Mr. Silas White.....	July 20, 1901	Mar. 18, 1905	1,151.00
Miss M. A. Castelhun.....	Jan. 12, 1903	May 7, 1905	675.00
Mrs. B. A. Shaw.....	Oct. 1, 1903	April 18, 1905	417.00
Miss Kate Elliott.....	Jan. 3, 1905	Feb. 14, 1905	.....

Mrs. J. H. Wallace waives all right to an annuity on January 1, 1905.

Respectfully submitted,

W. H. LANGDON,

Secretary San Francisco Public School Teachers' Annuity and Retirement Fund Commissioners.

REPORT
OF THE
President Board of Health
FOR THE
Fiscal Year Ending June 30, 1905.

HEALTH DEPARTMENT REPORT.

To the Hon. Eugene E. Schmitz,

Mayor of the City and County of San Francisco, State of California.

The Department of Public Health of the City and County of San Francisco, through the President of the Commission, has the honor to present for your consideration its Annual Report of the fiscal year terminating this day.

The policy of the Commission, operated through carefully laid plans for the up-building of the Department within its control, desires to report activity throughout. The organization, having been carefully prescribed through the previous year, the work of the Department has therefore been one of internal development. I would rivet your attention upon the progress made and consider such in the following order—The Laboratories, School Inspection, City and County Hospital, Almshouse, Central Office and Emergency Hospitals, Leper and Smallpox Hospitals.

LABORATORIES.

For the first time in the history of San Francisco a Pure Food Laboratory has been established and in successful operation during the year. Acting under your approval, the Commission sought the advice of Professor Rising of the University of California and Professor Stillman of Stanford University, heads of the Department of Chemistry of their respective universities, and received their suggestions as to organization, management and selection of chemists to perform the technical work, which the analysis of food products necessarily requires. In the creation of the Pure Food Laboratory, we sought only such advice, which from the standpoint of scientific accuracy was unimpeachable. Mr. H. D. Gibbs of Cornell University has been placed at the head of this department. Associated with him are five chemists recommended by Mr. Gibbs and approved by the health Commission.

Ample space has been acquired and a fair equipment for successful work along the necessary line of food inspection. It is obvious that the consumer of foods and beverages has a right to know through the Health Commission as to the purity of that product and the food value of that article he eats, and whether he is obtaining what he is paying for or some noxious adulterant. The gross Food Inspection as previously carried out through a department of Food Inspectors failed to meet the protection which the importance of the subject deserves. Modern science demands that all food inspection be directed to the Laboratory wherein only accurate and exacting conclusions can be drawn. The importance of this carefully applied research to the health

of this community is most obvious. The Commission believed it to be a credit and an advantage to the manufacturers and producers of this commonwealth to have the purity of their products recognized by this Board. It has been arranged to work wholly in accord with the State analyst and in harmony with the Agricultural Department at Washington.

The carefully planned and executed work of the Pure Food Laboratory has been shown by the six reports to this date sent out therefrom. These reports cover the examination of one hundred samples of California dry red wine; eight samples of Creme d' Menthe; twenty-six samples of catsups; one hundred forty-seven specimens of meats sold in shops; two hundred fifteen samples of dry red wines and one hundred eighty samples of olive oil, all on sale in the open market of this city.

The proposed future plan for this work will be the examination of such of our food products, which by being in common use deserve first importance as to possible adulterants, as the dry white wines and malt liquors. Nor is this all. By far the most important work for the Laboratory and one that the Health Commission has placed the greatest emphasis upon is the uniform and continuous examination of the milk and water supply of this City. This work is performed by the Pure Food Laboratory and Bacteriological Laboratory conjointly. The Board of Supervisors have this year passed ordinances upon recommendation of this Commission covering the control of the milk supply of this City and County. Through the exercise of this ordinance a vast amount of progress has been made in purifying the milk output. The Department has been pleased to note a very striking change in the chemical and bacteriological examination of the milk from month to month, so that it may be justly claimed at the present time that while the milk supply of the City is far from what it should be, it is on the other hand very much purer than ever before in the history of San Francisco.

It will be yet necessary for the bacteriological standard to be established by ordinance in order to reach a larger purity of the milk supply than has yet been attained. We have urged upon the Supervisors the creation of a bacteriological standard supplemented by an ordinance. As yet it has not been obtained.

In order to facilitate system, the position of Laboratory assistants and apprentices was created, and the Civil Service Commission asked to hold examinations therefor. This they did and their certifications accepted by this Department.

The Bacteriological Laboratory has made 1,622 examinations, against 906 the previous year. This is independent of 600 milk examinations per month. These daily milk examinations make plain where abuses exist and point to necessary corrections.

The Chemical Laboratory shows 3,072 analyses within 26 series for this fiscal year.

SCHOOL INSPECTION.

Under your generous assistance and that of the Honorable, the Board of Education, the work was begun in February, 1904. The 65 volunteer inspectors then appointed were continued throughout the year just closed, and have proven a most efficient body of inspectors, guarding against retention in the public schools of those, who by contagious or infectious diseases, or by neglect, prove a menace to the healthy school children. They have sought by careful discrimination to raise the standard of medical knowledge in preventive medicine and to eliminate, through early recognition, all contagious and infectious diseases, thereby affording liberal help to the Health Commission. This is the plan usually first tried in other large cities, and it has proven a distinct blessing to this community.

It will be sufficient for me to show by the statistics from our Department to prove the utility of this inspection. The number of children sent home by the school inspectors during the year—575. Within this number the following diseases are represented: Varicella, 30; Measles, 35; Impetigo Contagiosa, 4; Tuberculosis, 3; Dysentery, 8; Mumps, 33; Ringworm, 9; Tonsillitis, 32; Whooping Cough, 19; Diphtheria, 3; Pediculosis, 21; Skin Diseases, 12; Swollen Glands, 4; Acute Colds, 15; Requiring Vaccination, 46; Contagious Diseases reported to the Central Office through the fiscal

year, 1904-5, are as follows: Diphtheria, 625; Scarlet Fever, 109; Measles, 109; Whooping Cough, 72; Varicella, 150; Mumps, 6.

These statistics clearly point to the importance of limiting the spread of communicable diseases, and inasmuch as they are most often found among children in attendance upon the public schools, where they are crowded together for several hours each day, their early detection becomes an absolute necessity. While it is not possible to entirely eliminate all disease from the schools, yet the prevention of many of the physical conditions are within our reach. If the medical inspection of schools has its value fully impressed upon those in authority, more substantial gains will be made in the near future.

Special recognition must be made for the very scientific and painstaking work of Chief Eye and Ear Inspector, Dr. Lewis Deane. His report covers the examinations by himself and assistants of 6000 pupils of our public schools. It was found that 47% suffered with some defect, 20% of which were in need of treatment for ocular defects. Twice as many girls in comparison to boys were deficient in vision, 5% suffered with far-sightedness, 4% with short-sightedness, 5% were astigmatic. Nearly 1% were cross-eyed, 3% were affected with infectious disease of the conjunctiva, 1% had chronic ear discharges. 1½% could not hear the ordinary voice at a distance of 20 feet. 3% were "mouth breathers," 2½% possess enlarged tonsils.

Percentage of total class standing in the normal children in attendance: Excellent, 7½%; Good, 35%; Fair, 35%; Poor, 2½%.

Percentage of standing of those complaining of eye, ear, nose or throat trouble: Excellent, 5%; Good, 27%; Fair, 35%; Poor, 35%.

CITY AND COUNTY HOSPITAL.

Your policy of the introduction of business methods into the management and the strictest economy in its government has enabled this commission to not only live within its appropriation for the maintenance of a minimum number of 400 patients constantly, but we have been able to liquidate a debt upon the institution of \$3,000, held over from former management of 1903. This has been to the embarrassment of all, but has ended in freedom from a deficit.

The following improvements are noteworthy—the purchase of large up-to-date dressing and water sterilizers for the general operating room; besides the addition of several smaller ones to other operating rooms throughout the hospital. These most needed accessories have added immeasurably to the aseptic technique of the surgical department. The enlarging of the training school by 15 nurses, fixing the limit at 80; the procuring of an electrical current changer for the X-ray laboratory; the establishment of a Nurses' Home upon hospital grounds and the furnishing thereof; the placing of the training school under Civil Service; and finally the creation of externships, a limited number to relieve the labors of the internes. The greatest effort has been made to maintain good discipline, greater cleanliness and foster cordial spirit throughout the hospital. The inadequate appropriations have made this most difficult and it is earnestly hoped that larger means may be procured.

It is very urgent that means should be provided for the development of the laundry department, as there are no dryers, washers or a mangle. It is a matter of great surprise how as much and satisfactory laundry work has been accomplished throughout the past with the inadequate means at our disposal.

The contagious pavilion, which is a most important accessory to the institution, has been placed under one management which will tend to more careful direction in this class of patients. A special Laboratory has been fitted up within it, so that all intercommunication between the contagious pavilion and the general hospital may be severed.

The number of patients treated during the fiscal year number 4,487; cured, 1,050; improved, 2,737; died, 700; patients operated upon, 820; cured, 732; improved, 52; died, 36. Average number of patients treated monthly, 407; average number of officers and employees, 182.

CITY AND COUNTY ALMSHOUSE.

The amount of good work done at the City and County Almshouse by its able manager, Mr. Frank Schmitz, is one of the most gratifying parts of this report. Given 15 cents per day per capita to maintain over a thousand inmates constantly is by no means an easy matter. The Almshouse is becoming a garden spot, much attention having been paid to the agricultural side. Very many improvements in maintaining the present construction by partial re-building have been accomplished. Every effort has been made to make it sanitary both in and without the building. The facilities for protection against fire have been inaugurated by a system of outdoor stair cases, dividing the building into compartments, placing hose throughout. The place has been orderly and clean and a spirit of contentment prevails.

The amount of repairing cost a total of \$7,918.91. The material of which has been \$2,121.11, the labor costing \$5,797.80. The plumbing and tinning during the fiscal year has cost \$2,029.03 of which \$1,132.03 has been used for material and \$897 for labor.

By utilizing old material on the ground and that recovered during re-construction together with employment of inmate labor very materially lessened the cost of re-construction. In all of our work at the Almshouse the Finance Committee of the Supervisors has given its hearty approval and very much substantial help. Our funds have not provided for painting of the buildings which they are urgently needing.

CENTRAL HEALTH OFFICE.

Necessarily the Central Health Office shows the greatest activity of all the Departments. It is from here that all orders are issued, and to a large extent the whole work of the Commission subtends. In order to facilitate more perfect work and better understanding of methods the Health Officer was detailed to visit Eastern cities to acquire information of internal affairs. Much good has been the outcome thus afforded. Beyond the better government of this office much work in the establishment of better statistics has been inaugurated. Through the operation of the State law our Department becomes the repository of the registration of births and deaths, which has formerly been the duty of the Registrar. This is a proper place for all health items. New forms have been provided and adapted for births and death certificates—the Bertillon system in harmony with that of the vital statistical bureau in Washington.

The Department has established official badges for the Commission and various officers. Most important ordinances have been suggested to the Board of Supervisors' noteworthy among which are the following for the governing of barber shops; for the conveying of soiled linen in street cars; removal of water tanks from the tops of houses; lapse of 30 days before the cremation of human remains, additions to the plumbing rules and requiring notification to the Department of all cases of pneumonia and tuberculosis. The "Portable Sterilizer" with gasoline motor attachment has been constructed in accordance with the wishes of the Commission, has been inspected and tested and accepted. It is doing satisfactory work.

The Department has maintained a monthly bulletin giving the workings of all institutions under its control and particular reference has been given to the publications of all infringement upon the maintaining of the high standard for the milk supply and adulteration of food products in the City and County of San Francisco. Emphasis has been placed upon all means of educating the public in faulty hygiene within the home and on the street with special enforcement of the "spitting" ordinance. In addition careful enforcement of the ordinance relating to midwives, lying-in hospitals and baby farms. Strict business methods have been introduced causing a proper check against an account when it is drawn upon, in order to maintain 1-12 division of expenditures.

By careful management the Department was able to save through the fiscal year in various ways \$4,636.20, especially on salaries.

EMERGENCY HOSPITALS.

This is a group of five institutions within four districts, including the Detention Hospital. The Detention Hospital for the Insane cared for 617 patients in the past year. At the Central Station, where all the capital surgery is performed, there were admitted for treatment 7,179, an increase of 941 over the previous year. At the Harbor Station patients treated were 5,032, an increase of 506 over 1903-4. At the Park Station 972 were admitted, an increase of 392. At the Potrero branch 741 patients were treated, an increase of 100 over the previous fiscal year.

A noteworthy addition to the service has been the installation of a complete X-ray outfit, Schiedl coil.

This branch of departmental work is the best equipped and sustained of any within our control. The statistics of work accomplished is the best evidence of its necessity and the best returns for its maintenance.

LEPER AND SMALLPOX HOSPITALS.

There have been 34 cases of small pox throughout the year quarantined at the 26th street hospital, only two cases appearing during the first half of the fiscal year.

The number of lepers have been 23, with one death during the year. Greater comforts are demanded for these sufferers in larger and more sanitary quarters.

Special mention should be given and cordial thanks returned to the Committee of the California Club, whose encouragement has been warmly appreciated by this Commission in ministering to the needs of the City and County Hospital; to the large body of School Inspectors who have given generously of their time in eliminating disease from our public schools; to the eight "district nurses" who have been most helpful in the sanitary bureau; to Mr. W. J. White in guarding the moral conduct of the Lying-in Hospitals and Maternity Homes; to Mrs. Phoebe A. Hearst, for having given \$250 to the City and County Hospital and a like sum to the Almshouse to make glad the Yuletide days for the inmates of both institutions. Mrs. Hearst has the distinction of being the only person to contribute individually to the comfort of the sick poor in the public institutions under our control.

RECOMMENDATIONS.

I. Through division of service a larger supervision could be developed in the Sanitary Inspection. I should therefore recommend the appointment of four district medical health officers. The present force of Sanitary Civil Service Inspectors could be diverted to this important service. These medicalmen should supervise inspection of our 76 schools and attend to all work regarding local quarantine and disinfection in contagious and infectious diseases.

The appointment of four laymen to the service of the Sanitary Bureau for management of the common nuisances requiring ordinary knowledge of sanitary measures in abating the same. These inspectors should give their entire time to this work of systematic inspection of premises within their districts.

II. The inspection of bakeries, baths, laundries, workshops and factories should be divided. There should be at least 3 inspectors delegated to this work. Within this city there are 300 bakeries, 200 bathing places, 500 laundries and 5,000 factories and workshops. The bakeries, bathing places and laundries deserve special guardianship. None the less important are the many working places where girls are crowded together in pursuit of the various trades. At present we have only funds sufficient for one person to perform all of this important inspection.

III. Separation of the three laboratories with distinct equipment for each. This is essential with regard to the pure food and water analysis where accuracy of technique makes success or failure of infinite importance. Better iniquipment of the laboratories by purchase of an immersion refractometer, value of \$150, platinum dishes to the amount of \$800.

IV. Ordinance governing the bacteriological standard of milk as to number of bacteria allowable to the cubic centimeter of milk, and the presence of detritus and pus.

V. Increased appropriation so that a female nurse would be available at Leper hospital; female help at the City and County Hospital for securing better cleanliness for wards and apartments. These increased appropriations should allow 35 cents per capita at the City and County Hospital and 20 cents at the Almshouse, in place of 27 cents and 15 cents as prevails now in the respective institutions.

VI. A new Almshouse of brick construction with sufficient conveniences to make it both sanitary, safe and commodious.

VII. The Detention Hospital long ago projected and partially appropriated for, should be at once constructed. The arrangement of smallpox patients and leprous patients on the same ground becomes alike objectionable from the medical and esthetic points of view.

VIII. Until the completion of the new City and County Hospital as planned, there should be a raised fence about the present hospital grounds 15 feet high to prevent the running away of patients of which there have been 180 escapes during the last year.

IX. Ordinances governing the adulteration of foods and drugs should be formulated in line with suggestions already advanced to the Supervisors. Likewise the ordinance relating to plumbing and drainage as now existing is vague and inadequate in many of its sections and should be amended to strengthen the work of the Department of Health as it relates to public good.

X. A tuberculosis pavillion for open air treatment should be erected on the grounds of the City and County Hospital thereby relieving the congested condition of the medical wards. These infectious cases are scattered indiscriminately about the general hospital exposing to widespread development of the "white plague." Ample provision should be made for maintenance of these cases requiring super feeding and skilful nursing. By this method fully 50% of the hopeless cases would recover.

In concluding this report of the movements of this Health Commission, created entirely by your own appointment, I desire to gratefully acknowledge on behalf of this Board the co-operation and broad counsel which you have at all times given, wisely and within the law.

Respectfully submitted,

DR. JAMES W. WARD,

President of the Health Commission.

ANNUAL REPORT

OF THE

City and County Almshouse

1904--1905.

San Francisco, July 1, 1905.

To the Honorable the Board of Health

of the City and County of San Francisco:

Gentlemen—I respectfully submit to your Honorable Board the following report of the City and County Almshouse for the fiscal year ending June 30, 1905.

NUMBER OF INMATES ADMITTED—

Males.....	668
Females.....	108
Total admitted.....	776
Total number of inmates in Almshouse July 1st, 1904.....	872
Number of inmates to be accounted for.....	1,648

NUMBER OF INMATES DISCHARGED—

Number of inmates before Commissioners.....	4
Number of inmates overstayed pass.....	82
Number of inmates discharged at own request.....	275
Number of inmates left without permission.....	163
Number of inmates discharged for cause.....	19
Number of inmates sent to the City and County Hospital.....	21
Number of inmates died.....	205
Total.....	769
Total number of inmates in Almshouse July 1st, 1905.....	879

SOCIAL CONDITION OF INMATES—

Single.....	398
Married.....	76
Widowed.....	293
Divorced.....	6
Total.....	773

RACE OF INMATES ADMITTED—

Caucasian.....	766
Mongolian.....	1
Ethiopian.....	6
Total.....	773

BY WHOSE ORDER ADMITTED—

By Board of Health.....	698
By Sup't. of the City and County Hospital.....	38
By Sup't. of City and County Almshouse.....	37
Total.....	773

EMPLOYEES—

Average number of officers and employees during year.....	39
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AGES OF INMATES ADMITTED.

From 20 to 30 years.....	9	From 60 to 70 years.....	314
From 30 to 40 years.....	32	From 70 to 80 years.....	137
From 40 to 50 years.....	78	From 80 to 90 years.....	32
From 50 to 60 years.....	171	From 90 to 100 years.....	
Total.....			<u>773</u>

NUMBER OF TIMES ADMITTED AND RE-ADMITTED.

First time.....	395	Eighth time.....	12
Second time.....	171	Ninth time.....	8
Third time.....	65	Tenth time.....	4
Fourth time.....	41	Eleventh time.....	3
Fifth time.....	30	Twelfth time.....	7
Sixth time.....	13	Thirteenth time.....	2
Seventh time.....	16	Fourteenth time.....	6
Total.....			<u>773</u>

NATIVITY OF INMATES ADMITTED.
UNITED STATES.

Alaska.....	1	Missouri.....	2
Alabama.....	2	Mississippi.....	2
California.....	3	Michigan.....	2
Connecticut.....	5	New Jersey.....	4
Delaware.....	1	New York.....	51
Florida.....		New Hampshire.....	2
Georgia.....	2	Ohio.....	17
Illinois.....	11	Pennsylvania.....	21
Indiana.....	3	Rhode Island.....	2
Iowa.....	4	Tennessee.....	1
Kansas.....	1	Texas.....	1
Kentucky.....	5	Virginia.....	2
Louisiana.....	4	Vermont.....	5
Massachusetts.....	20	Washington.....	3
Maryland.....	2	Wisconsin.....	2
Maine.....	15		
Total.....			<u>196</u>

FOREIGN.

Africa.....	1	Canada.....	11
Austria.....	2	Denmark.....	14
Australia.....	6	England.....	30
Brazil.....	1	Finland.....	3
Chile.....	1	France.....	20
Central America.....	1	Germany.....	66
China.....	1	Holland.....	2
Hungary.....	2	Portugal.....	1
Ireland.....	235	Russia.....	6
Italy.....	2	Sweden.....	12
Mexico.....	4	Switzerland.....	17
Nova Scotia.....	3	Scotland.....	26
Norway.....	5	Wales.....	4
Prussia.....	1		
Total.....			<u>577</u>
Grand Total.....			<u>773</u>

The highest number of inmates recorded during fiscal year for one day was 925 on the 2nd of April, 1905.

The lowest number of inmates in any one day was 855 on the 10th of Sept., 1904.

OCCUPATION OF INMATES ADMITTED.

Boatman.....	1	Lumberman.....	3
Bottler.....	1	Longshoreman.....	3
Baker.....	4	Laborer.....	258
Brewer.....	1	Locksmith.....	1
Bedmaker.....		Mason.....	2
Beggar.....	2	Musician.....	4
Barber.....	4	Moulder.....	1
Blacksmith.....	12	Marble cutter.....	2
Bookkeeper.....	1	Machinist.....	7
Bricklayers.....	2	Miller.....	2
Boilermakers.....	2	Milliner.....	1
Bootblack.....	1	Metal roofer.....	1
Butcher.....	2	Millwright.....	
Brickmaker.....		Miner.....	32
Brushmaker.....	2	Nurse.....	2
Cabinetmaker.....	2	Naturalist.....	1
Carpenter.....	19	Nailmaker.....	
Carriagemaker.....	2	Plasterer.....	1
Carriage painter.....		Preacher.....	
Coachman.....	1	Printer.....	4
Carpet layer.....	2	Plumber.....	4
Cook.....	26	Painter.....	12
Clerk.....	15	Porter.....	3
Cigar dealer.....	2	Peddler.....	16
Cooper.....	1	Polisher.....	2
Candy maker.....	1	Photographer.....	2
Dressmaker.....	4	Ranchman.....	1
Drygoodsman.....	1	Railroadman.....	5
Doctor.....	2	Restaurant keeper.....	
Dishwasher.....	2	Stone cutter.....	1
Druggist.....	1	Sailor.....	29
Domestic.....	51	Stableman.....	4
Dyer.....	1	Stevedore.....	2
Dairyman.....	1	Steward.....	1
Engraver.....		Shipwright.....	4
Engineer.....	7	Solicitor.....	1
Expressman.....	4	Stockman.....	1
Fisherman.....	3	Stonemason.....	1
Fireman.....	6	Shoemaker.....	4
Farmer.....	3	Salesman.....	7
Furniture maker.....	1	Tailor.....	13
Florist.....	1	Teamster.....	11
Factory hand.....	1	Teacher.....	
Gold beater.....	1	Telegraph operator.....	1
Gardener.....	10	Tinsmith.....	6
Grocer.....	1	Upholsterer.....	3
Hackdriver.....	4	Varnisher.....	1
Harnessmaker.....	2	Waiter.....	18
Hodcarrier.....		Watchmaker.....	1
Housekeeper.....	42	Writer.....	1
Hotelkeeper.....	3	Wellborer.....	2
Hostler.....	8	Weaver.....	3
Ironmolders.....	2	Woodcutter.....	4
Lawyer.....	1	Watchman.....	1
Liveryman.....	2		
Laundryman.....	1	Total.....	773

ALMSHOUSE REPORT

TAILORING DEPARTMENT.

Men's overalls fitted.....	443
Men's brown canvas coats fitted.....	78
Men's brown canvas pants fitted.....	9
Men's brown canvas vests fitted.....	64
Men's jumpers fitted.....	103
Coats, pants and vests repaired.....	78

SHOEMAKERS DEPARTMENT.

Men's shoes made (pairs).....	239½
Men's shoes repaired (pairs).....	650½
Women's shoes repaired (pairs).....	186½

FEMALE DEPARTMENT.

Men's shirts, caps, aprons and jumpers.....	891
Women's underclothing, caps and aprons.....	861
Bedspreads, sheets, pillowslips, etc.....	1,791
Tablecloths, napkins, towels and shrouds.....	457

ACREAGE OF ALMSHOUSE TRACT.

Buildings, roads, etc.....	21
Number of acres sown with potatoes.....	20
Number of acres sown with corn.....	7
Number of acres sown with vegetables.....	12
Number of acres of waste lands.....	20

LIVE STOCK.

Horses.....	18
Cows.....	9
Calves.....	1
Bull.....	1
Hogs.....	4

ALMSHOUSE EXPENSES FOR 1904-1905.

Salaries.....	\$25,992.70
Beef, mutton and fish.....	15,958.48
Groceries.....	21,782.36
Dry goods, clothing, shoes.....	3,522.10
Tobacco.....	981.64
Medicines and drugs.....	698.32
Liquors.....	1,535.41
Repairs to vehicles and harness.....	846.00
Feed of horses and cattle.....	4,993.40
Horse shoeing.....	491.25
Fuel and lights.....	6,583.81
Tools and implements.....	982.92
Crockery and utensils.....	427.34
Laundry supplies.....	210.87
Carpets and furniture.....	28.00
Horses and cattle.....	148.50
Petty expenses.....	42.25
Garden seed.....	20.00
Milk.....	4,745.00
Total.....	\$89,990.95
Appropriation for sustenance for the City and County Almshouse for the fiscal year 1904-1905.....	\$64,000.00
Appropriation for salaries.....	26,000.00
Total.....	\$90,000.00

Through the co-operation of the Honorable Board of Supervisors and the Honorable Board of Public Works, much has been accomplished during the past year in the line of improvement, all of a most substantial character.

The cow barn and stables were in a dangerous condition on account of the underpinnings and supports all being destroyed by dry rot, requiring a great deal of repairing, bracing, etc., the roofs also had to be reshingled.

A new fence was placed around the boundaries of the tract, replacing the old one which was in a bad condition.

Fire escapes were added to all the buildings, thereby doing away with one of the most serious and dangerous conditions of the institution.

All floors and stairways were thoroughly inspected and repaired, especially in No. 2 building, where portions of the floors and the entire stairs had to be replaced with new material throughout so as to avoid any possibility of accidents or injuries to the inmates.

The tank and tank house which has been a standing menace to No. 2 building, has been torn down and removed.

The blacksmith, furniture and carpenter shops have all been reshingled and generally repaired.

The bath tubs, urinals, toilets, sinks, drains, sewers and all plumbing in the buildings and on the grounds were all overhauled and put in good order, so as to keep the conditions of the buildings and grounds sanitary.

Wherever necessary the old tubs, toilets, urinals, etc., were removed and new and more modern ones replaced.

The drains and gutters in the stables, cow barns, etc., were all taken out and replaced with new drains and gutters.

The electrical system was in a terrible condition, being out of date, obsolete; it has been replaced by an entire new and modern plan; everything being replaced with new material so as to remodel it entirely and put it in good order.

No. 3 building was in the worst possible condition as regards bath tubs, toilets and plumbing, the roof leaking, the entire structure badly in need of repairing and painting.

The entire building was renovated and repaired throughout; new tubs, urinals, etc.; the roof was partially reshingled and the building was painted inside and outside, putting it in a very good shape considering it being a very old building.

When ever it has been necessary we have repaired the public roads in the vicinity. The Agricultural Department is, as in former years, operated and managed in a profitable manner. All the vegetables used during the year in the institution were grown on the place, with the exception of potatoes, and of these enough were raised to last us for six months.

Mrs. Phoebe Hearst still continues to send a generous annual contribution for the benefit of inmates.

Dr. Pischel generously continues his visits as oculist to the inmates; his services, as heretofore, being gratuitous.

Regular visits have been made and many kindnesses tendered the inmates by the clergy of St. Dominic's and St. Agnes, also by the Rev. D. O. Kelly and the Salvation Army.

We also wish to express our sincere thanks to the French Ladies' Aid Society, The Society of St. Vincent de Paul, the Catholic Ladies' Aid Society and the German Benevolent Society, for their many visits, which has contributed to both the spiritual and temporal welfare of the inmates.

Thanking the Honorable Board of Supervisors and the Honorable Board of Health for their generous support and kind co-operation, I respectfully submit this report.

FRANK A. SCHMITZ,
Superintendent

Report of Medical Department

REPORT OF MEDICAL DEPARTMENT CITY AND COUNTY ALMSHOUSE FOR THE YEAR ENDING JUNE 30TH, 1906.

San Francisco, July 1, 1905.

To the Honorable Board of Supervisors
of the City and County of San Francisco.

Gentlemen: I respectfully submit to your Honorable Board the yearly report of the Medical Department of the City and County Almshouse for the fiscal year ending June 30, 1905.

Number of inmates July 1, 1904	872
Average number of inmates.....	890
Number of deaths during year	205
Number of males died	159
Number of females died	46
Cost of drugs, alcohol, liquors and surgical supplies.....	\$2,233.73

NATIVITY OF DECEASED PERSONS.

Austria	1
Canada	2
China	2
Denmark	4
England	7
France	3
Germany	26
Greece	1
Ireland	82
Italy	5
Mexico	4
New South Wales	2
Norway	1
Poland	2
Russia	8
Scotland	4
Switzerland	44
United States	1
West Indies	2
Wales	4
Sweden	205
Total.....	205

NO. 1 BUILDING.

	Males	Females
Blind.....	24	2
Bedridden	10	4
Cripples	50	15
Working	12	
Convalescent		
Mentally incompetent		

NO. 2. BUILDING.

Bedridden	41
Convalescent	73
Mentally incompetent	94
Working (about).....	

NO. 3 BUILDING

Bedridden	26
Mentally incompetent	30
Working	18

NO. 4 BUILDING.

Bedridden	7
Convalescent	10
Mentally incompetent	12
Working	9

TOTALS.

Blind	24	2
Bedridden	67	17
Mentally incompetent	30	12
Cripples	25	4
Convalescent		

CAUSES OF DEATH.

Diseases.	Male.....	Female ..	Total
CLASS A.			
CONSTITUTIONAL—			
Anemia	2		2
Chronic Rheumatoid Arthritis	2		2
Phthisis Pulmonalis	6		6
Cancer Intestinal, etc	1		1
Dysentery Acute Catarrhal	3	1	4
Developmental—			
Senility	47	18	65
Anthrax	1		1
CLASS B.			
NERVOUS SYSTEM—			
Alcoholism, Acute	1	1	2
Hemorrhage Cerebral	9	4	13
Softening Chronic Cerebral	35	9	44
Chorea	1		1
Locomotor Ataxia.....	1		1
CIRCULATORY—			
Heart, Valvular Disease	24	10	34
Heart Dilatation	6	1	7
Aneurism Aorta.....	1		1
Fatty Degeneration of the Heart	1		1
Hemorrhage Pulmonary	2		2
RESPIRATORY—			
Bronchitis, Chronic	2	2	4
Pneumonia, Acute Lobar.....	6		6
Congestion, Pulmonary	1		1
URINARY—			
Nephritis Chronic Interstitial.....	5		5
CLASS C.			
VIOLENT DEATHS—			
Coroner's cases.....	2	2	
Total	159	46	205.

Respectfully submitted,

W. E. CONLAN, M. D.,

Resident Physician,

City and County Almshouse.

ANNUAL REPORT

— OF —

Poundkeeper

— FOR —

YEAR ENDIN JUNE 30, 1905

San Francisco, Cal., July 1, 1905.

Hon. E. E. Schmitz,

Mayor of the City and County of San Francisco.

Sir—As per requirements of the Charter, we herewith submit to you the following report:

Dogs on hand July 1, 1904		0
Impounded during the year		2,270
Redeemed	471	
Sold	47	
Destroyed	1,725	
Released during year without fees		
Dog that escaped while in transit		1
On hand July 1, 1905		26
Total.....	2,270	2,270

LARGE STOCK.

On hand July 1, 1904		0
Impounded during year		335
Redeemed	315	
Sold	10	
Destroyed	9	
On hand July 1, 1905		1
Total	335	335

SMALL STOCK.

On hand July 1, 1904		0
Impounded during the year		48
Redeemed	46	
Sold	1	
Destroyed	1	
Total.....	48	48

CASH STATEMENT.

Received for dogs redeemed	1,117.50
Received for dogs redeemed	141.00
Received for large stock redeemed	1,018.00
Received for large stock sold	87.00
Received for small stock redeemed	87.50
Received for small stock sold	1.50
	<u>\$2,452.50</u>

All of the above cash was paid in to the City Treasury as per receipt attached to monthly reports in the Auditor's office.

Fees and charges on all animals redeemed, sold and destroyed

3,725.00

Respectfully submitted,

THE SAN FRANCISCO SOCIETY FOR THE PREVENTION OF
CRUELTY TO ANIMALS,

C. B. HOLBROOK, Secretary.

Deceased Soldiers

REPORT OF SUPERINTENDENT OF INTERMENT OF DECEASED EX-U. S. SOLDIERS AND SAILORS, SHOWING THE NUMBER OF APPLICATIONS AND REJECTIONS FOR BURIAL DURING THE FISCAL YEAR ENDING JUNE 30, 1904.

San Francisco, Cal., July 1, 1904.

Hon. Eugene E. Schmitz,

Mayor of City and County of San Francisco.

Sir—I have the honor to make the following report in carrying out the provisions of the Act of the Legislature of the State of California, entitled "An Act to provide for the burial of ex-Union Soldiers and Sailors who may hereafter die without leaving sufficient means to defray funeral expenses." Approved March 15, 1889; amended March 23, 1901.

The following is a record of applications, rejections and burials for the fiscal year ending June 30, 1904, namely:

Total number of applications for interment	107
Applications for interment allowed	90
Applications for interment rejected	17
The cases rejected were for the following causes, namely:	
Left sufficient means to defray funeral expenses	9
Insufficient military or naval record	3
Died outside this City and County	5
	17

Very respectfully,

EDWARD A. BULLIS.

REPORT OF SUPERINTENDENT OF INTERMENT OF EX-U. S. SOLDIERS AND SAILORS SHOWING NUMBER OF APPLICATIONS, ALLOWANCES AND REJECTIONS DURING THE FISCAL YEAR ENDING JUNE 30, 1905.

San Francisco, July 1, 1905.

Room 40, 806 Market Street.

Hon. Eugene E. Schmitz,

Mayor City and County of San Francisco.

Sir—I have the honor to make the following report in carrying out the provisions of the Act of the Legislature of the State of California, entitled "An Act to provide for the burial of ex-Union soldiers and sailors who may hereafter die without leaving sufficient means to defray funeral expenses." Approved March 15, 1889; amended March 23, 1901.

The following is a record of applications, allowances and rejections for the fiscal year ending June 30, 1905, namely:

Total number of applications for interment	92
Applications for interment allowed	65
Applications for interment rejected	27
The cases rejected were for the following reasons:	
Left sufficient means for funeral expenses	11
Insufficient military or naval record	9
Died outside this City and County	7
	27

Very respectfully,

EDWARD A. BULLIS,

Supt. of Interment ex-U. S. Soldiers and Sailors.

REPORT
OF THE
Department of Public Works
Fiscal Year 1904-1905.

San Francisco, August 1, 1905.

TO THE HONORABLE EUGENE E. SCHMITZ,
MAYOR OF THE CITY AND COUNTY OF SAN FRANCISCO; and
TO THE HONORABLE THE BOARD OF SUPERVISORS OF THE CITY AND
COUNTY OF SAN FRANCISCO.

Sirs—The Board of Public Works herewith respectfully transmits, for your information, a report of the operations of the Department of Public Works for the fiscal year 1904-1905. This report is comprised of the reports of the Secretary and the several bureaus of the department, namely:

Bureau of Engineering,
Bureau of Streets,
Bureau of Building—
 (a) Division of Architecture,
 (b) Division of Maintenance and Repair,
Bureau of Light and Water.

Respectfully,

F. A. MAESTRETTI,
President Board of Public Works.

Report of the Secretary

San Francisco, Cal., Jan. 8, 1906.

TO THE HONORABLE THE BOARD OF PUBLIC WORKS
OF THE CITY AND COUNTY OF SAN FRANCISCO.

Gentlemen—I have the honor to submit the following report of the operations of the Board of Public Works during the fiscal year, 1904-1905:

This report contains an itemized statement of all moneys received and expended by the Department of Public Works, together with a general resume of all work performed by and under the direction of the Board.

APPROPRIATIONS AND EXPENDITURES.

The sum of \$19,820.00 was appropriated by the Board of Supervisors to the Board of Public Works for "Maintenance" of the Department, said appropriation to be expended at the discretion of the Board.

The following table sets out in general detail the manner in which this appropriation was expended:

	Expended.
Maintenance corporation yard	\$3,506.41
Maintenance bridges	5,039.35
Janitor's and engineer's supplies.....	3,496.69
Scavengering	444.00
Buggies (Commissioners).....	945.00
Repairs to bunkers.....	324.96
Fuel and power.....	5,117.60
Reserve (miscellaneous)	929.68
Total expenditures	19,803.69
Surplus	16.31
Total appropriation	\$19,820.00

In addition to the above "Maintenance" accounts the following sums aggregating \$1,111,947.18 were appropriated for "specific" purposes as set forth below.

The table appended shows the manner in which these moneys were segregated and expended, and it will be observed that in no case has there been a deficit.

	Expended.	Balance.
Twin Peaks Auxiliary Water Supply		*\$150,000.00
Paving Mission street, Onondaga avenue to county line ...	°76,048.50	*3,951.50
Paving "H" street from 7th avenue westward	29,433.95	*15,566.05
Widening 4th street, Market to Berry	20,588.23	‡54,411.77
Salaries Road Guards under Sheriff	2,340.00	
Opening Fulton street to Great Highway	°13,222.42	*1,777.58
Parking Dolores street, 15th to 17th street	5,000.00	
Extension and improvement of 19th avenue	4,999.48	.52
Concrete Parapet, beach to Cliff House	4,498.50	1.50
Sewers, roadway and sidewalks, Buena Vista avenue	°5,000.00	
Sewers, roadway and sidewalks, Holly Park avenue	°3,664.34	*335.66
Improvement San Jose avenue	1,998.48	1.52
Improvement San Bruno avenue.....	4,999.20	.80
Improvement Corbett avenue	1,999.36	.64
Improvement View avenue.....	500.00	
Macadamizing Ocean avenue	2,498.25	1.75
Macadamizing Pt. Lobos avenue	1,995.00	5.00
Streets and sidewalks surrounding Alamo Square	1,864.76	*885.24
Engine House 20th st. bet. Missouri and Connecticut		4,000.00

	Expended	Balance
Engine House 26th avenue near Pt. Lobos avenue	10,000.00	
Safety station at Market and Powell streets.....	750.00	
Safety station at Market and Powell streets (supplementary)	200.00	
Oil plant, City Hall and Hall of Justice	°1,800.68	*599.32
Purchase and erection of 100 poles on Market street, from 2d street to Ferry.....	3,500.00	
Purchase and erection of street signs	1,499.24	.76
Repairing and cleaning sewers	84,998.17	1.83
Repairing and cleaning sewers (urgent necessity).....	7,521.18	
Driveway at Election Commissioners warehouse 18th and Division streets	1,483.00	17.00
Repairs to basalt and cobble streets	49,996.18	3.82
Repairs to bituminum and asphalt streets.....	39,967.22	32.78
Repairs to streets on water front.....	4,997.93	2.07
Tinting and painting Recorder's office.....	749.07	.93
Tinting and painting Assessor's office	798.05	1.95
Tinting and painting offices Board of Health, Board of Works, City Attorney's, etc	1,999.57	.43
Repairs County Clerk's office	1,560.60	.40
Varnishing window frames, exterior City Hall	2,499.22	.78
Repairs to foundation Hall of Records.....	1,499.46	.54
Repairs to machinery Hall of Justice	499.38	.62
Repairs to Hall of Justice and Morgue	1,497.74	2.26
Repairs to Fire Department houses	14,985.28	14.72
Repairs to Police Department houses	4,990.89	9.11
Repairs to County Jails.....	9,978.08	21.92
Repairs to City and County Hospital (general)	9,998.73	1.27
Repairs to City and County Hospital (plumbing)	4,999.44	.56
Repairs to Almshouse (general)	7,998.70	1.30
Repairs to Almshouse (plumbing).....	1,995.90	4.10
Varnishing doors, casings and sashes interior City Hall ..	1,494.33	5.67
Repairs to Emergency Hospitals	719.68	.32
Cleaning and sprinkling streets	214,645.51	354.49
General office salaries.....	13,766.55	†33.45
General office salaries (bookkeepers, etc)	11,658.33	†41.67
Bureau of Buildings salaries	1,500.00	
Cleaning and maintaining City Hall and Hall of Justice ..	47,104.05	†.95
Bureau of Streets office salaries	30,860.85	†39.15
Corporation yard keepers and stone cutters	5,280.00	
Corporation yard carpenters.....	2,399.70	.30
Maintenance of bridges, engineers	3,600.00	
Maintenance of bridges, watchmen	4,012.50	†487.50
Bureau of Light and Water, salary	1,800.00	
Bureau of Light and Water, horse hire	387.00	33.00
Bureau of Light and Water, material, etc	1,749.52	.48
Division of Architecture, salary architect	3,000.00	
Division of Architecture, salary draughtsmen	3,300.00	
Division of Architecture, salary inspectors	9,900.00	
Division of Architecture, supplies, etc	2,680.57	19.34
Bureau of Engineering, city engineer	4,999.92	†.08
Bureau of Engineering, employees	51,844.90	†1,375.10
Bureau of Engineering, supplies, etc.....	1,779.82	.18
Bureau of Engineering, assessment maps.....	4,490.23	†9.77
Repairs to bridges, urgent necessity	927.50	72.50
Roadway, †Division street, urgent necessity	489.30	10.70
	\$877,804.44	\$234,142.74

Notes:

*Balances carried forward to fiscal year 1905-1906.

†Balances of \$50,000.00 carried forward to fiscal year 1905-1906.

°Includes outstanding contracts, work on which has not as yet been completed.

†Amounts set opposite this mark were returned from the "salaries" accounts and aggregate \$1,987.67.

RECAPITULATION.

Maintenance	Appropriated.	Expended.
Specific	\$19,820.00	\$19,803.69
Amounts carried forward to 1905-1906	1,111,947.18	877,804.44
		223,115.35
Total appropriation	\$1,131,767.18	\$1,120,723.48
Total expended	1,120,723.48	
Total amount of surplus returned to general fund	11,043.70	

**CONSTRUCTION OF PEST HOUSE
CONTRACTED FOR AND PAID OUT OF FUND OF FISCAL YEAR 1903-1904
COMPLETED 1904-1905.**

For construction of Water Works on site for new Pest House	\$2,974.00
Painting	125.00
Repairs (machinery)	26.85
Inspection	32.00
	\$3,157.85

Your attention is herewith called to the fact of the balances still remaining in the Fund for Construction and Equipment of the Pest House as tabulated below:

From fiscal year 1901-1902 carried over	\$5,000.00
From fiscal year 1901-1902 balance account purchase of site	2,000.00
From fiscal year 1902-1903 balance	7,499.10
From fiscal year 1903-1904 balance	2,948.39

Total remaining to be applied to construction

\$17,447.49

**GENERAL SUMMARY OF PERMANENT IMPROVEMENTS ON STREETS AND
SEWERS DURING 1904-05 (AS FAR AS COMPLETED), PAID FOR BY THE
CITY AND COUNTY.**

Location of Work	Kind of Work Done	Contract	Inspection	Total Cost
Market st. 2d to Ferry....	Decorative poles	\$3,460.00	\$40.000	\$3,500.00
San Bruno ave. and 25th st.....	Bitumen pavements ..	70.00		70.00
19th ave. Trocadero Gulch to Ocean ave	Grading and macad- amizing	4,743.48	256.00	4,999.48
4th st. bridge	Repairs to gear, etc ..	3,293.75		3,293.75
6th st. bridge	Repairs to gear, etc ..	1,383.60		1,383.60
Cliff ave. from Beach to Cliff House	Widening and concrete parapet	4,462.50	36.00	4,498.50
*4th st. Market to Berry	Widening and re-pav- ing	17,905.50	468.00	18,373.50
4th st. Market to Berry	Wages, material, etc ..	2,214.73		2,214.73
*"H" st. from 7th ave. westward	Bituminous rock pave- ment.....	28,707.95	726.00	29,433.95
Miscellaneous locations....	Repairs to Bituminous streets.....	39,836.22	131.00	39,967.22
Market and Powell sts. ...	Construction of Safety Station.....	950.00		950.00
*Buena Vista ave. bet. Waller and Haight.....	Street sidewalks, etc...	1,079.12	56.00	1,135.12
6th ave. bet. "I" and "J" sts.....	Sewers and crossings..	475.00		475.00
Division st. bet. 6th and 7th.....	Basalt roadway.....	989.30		989.30
*Surrounding A l a m o Square.....	Streets, sidewalks, etc	1,794.76	70.00	1,864.76
*Fulton st., 25th ave. to Great Highway.....	Grading and macad- amizing	494.50		494.50
Dolores st. 15th to 17th sts.....	Parking.....	4,812.00	188.00	5,000.00
*Mission st. Onondaga ave. to county line.....	Paving with asphalt...	11,232.26	1,121.00	12,353.26
Miscellaneous location....	Purchase and erection of street signs.....	1,499.24		1,499.24
18th and Division sts.....	Construction driveway	1,483.00		1,483.00
		\$130,886.91	\$3,092.00	\$133,978.91

Note: *Partly completed balance of moneys carried forward to 1905-1906. See next page.

REPORT OF SECRETARY

GENERAL SUMMARY OF PERMANENT IMPROVEMENTS ON STREETS AND SEWERS, WHEREIN THE CONTRACTS HAVE BEEN AWARDED, THE WORK, HOWEVER, NOT AS YET HAVING BEEN COMPLETED, PAID FOR BY THE CITY AND COUNTY.

Location of Work.	Kind of Work.	Estimated Cost.	Remarks.
4th st. Market to Berry	Repaving and widening....	50,000.00	Not yet underway
"H" st. 7th ave. westward ...	Asphalt pavement.....	15,620.02	Work going on
Fulton st. 25th ave. to Great Highway.....	Grading and macadamizing	12,727.92	Work going on
Buena Vista ave.....	Streets, sidewalks, etc	3,864.88	Work going on
Holly Park ave.....	Sewers, roadway, etc	3,664.34	Work going on
		\$85,877.16	

GENERAL SUMMARY OF NEW BUILDING CONSTRUCTION PAID FOR BY CITY AND COUNTY.

	Total Cost.
Engine house 26th avenue near Pt. Lobos avenue.....	\$10,000.00
Oil plant, City Hall.....	1,800.68
	\$11,800.68

RECAPITULATION.

Street and sewer work completed and paid for	\$133,978.91
Street and sewer work contracted for.....	85,877.16
Buildings completed and paid for.....	11,800.68
	\$231,656.75

Respectfully submitted,

LEONARD S. LEAVY,
Chief Bookkeeper Board of Public Works.

San Francisco, July 1, 1905.

To the Honorable the Board of Public Works
of the City and County of San Francisco:

Gentlemen—I herewith respectfully submit a report of the number of petitions filed with the Board of Public Works for the fiscal year ending June 30, 1905, together with a summary of the Minute Record, Civil Service Record, Public and Private Contracts, Certificates of Satisfactory Completion and Miscellaneous Permits issued, etc.

PETITIONS AND COMMUNICATIONS.

Total number of petitions recorded, 2,187, apportioned as follows:	
Street work (by public and private contract).....	1,539
Move buildings, along or upon public streets.....	87
Extensions of time on contracts.....	85
Miscellaneous.....	476
Total.....	2,187

The street work petitions above noted include:

Requests for surveys, reduction of sidewalk widths, artificial lights, removal of obstructions from streets, abatement of nuisance caused by dumpage and blasting, changes of grades and street crossings, and for the grading, curbing, paving and sewerage of streets, and the repairing and construction of sidewalks.

Miscellaneous permits were issued on petitions for signs (under Ordinance No. 548 of the Board of Supervisors) hitching posts, watering troughs, awnings, moving engines and boilers over streets, and the erection of temporary parade stands and structures, setting of poles and selling flowers at free flower markets, etc.

MINUTE RECORD.

Total number of meetings held by the Board during the fiscal year, 1904-1905, 92.	
Regular meetings.....	52
Special meetings.....	3
Adjourned meetings.....	37
Total.....	92

Total number of resolutions passed at above meetings, 2,139.

PUBLIC CONTRACTS—STREET WORK.

Number of contracts entered into by and between contractors and the Board of Public Works for the fiscal year 1904-1905, 85.

Work has been completed on 64 contracts, including 14 that were entered into during last fiscal year.

Work is in progress on 35 contracts.

PUBLIC CONTRACTS—MISCELLANEOUS.

Number of contracts entered into by and between contractors and the Board of Public Works, 25.

The above comprise contracts for repairing and restoration of pavements, etc., new buildings and additions to buildings, etc.

PRIVATE CONTRACTS—STREET WORK.

Number of contracts filed during the fiscal year, 1904-1905, 244.

Renewals of private contracts, 76. Total, 320.

The above comprise contracts entered into between property owners and contractors, to perform certain street work by private contract, after permission to do so was granted by the Board of Public Works.

MISCELLANEOUS PERMITS.

During the fiscal year 1904-1905 681 typewritten permits were issued for the maintenance of watering troughs, maintaining signs as covered by Ordinance 548 of Board of Supervisors, selling flowers at free flower markets, hitching posts on the sidewalks, temporary repairs to plank sidewalks, runways adjoining the curb (to afford ingress and egress for vehicles over the same) and sundry permits for privileges not covered by the usual blank forms of the department.

CERTIFICATES OF SATISFACTORY COMPLETION.

Number of certificates issued during the fiscal year 1904-1905, 306.

The above comprise certificates issued by the Board to contractors, upon the satisfactory completion of the work performed under their several and respective contracts.

Of the above number 57 certificates were issued for work performed under public contract, and 249 under private contract.

CIVIL SERVICE.

Number of requisitions made to Civil Service Commissioners for eligibles during the fiscal year 1904-1905, 158.

Laborers.....	5
Classified lists.....	153
Total.....	158

The following Civil Service eligibles were certified and appointed from the classified lists:

Stenographer-Typewriters.....	2
Clerks.....	2
Sewer cleaners.....	1
Bricklayers.....	1
Hodcarriers.....	2
Pavers.....	3
Rammers.....	6
Watchmen.....	2
Carpenters.....	20
Painters.....	19
Surveyors.....	2
Inspectors school buildings.....	3
Side sewer men.....	44
Janitors.....	42
Total.....	149

The five requisitions for laborers covered certificates for the names of eighteen laborers for temporary appointments to the different departments under the control of the Board. The apparent increase of employees is accounted for by the reason of the janitors (42) and side sewer men (44) being placed on the classified list of Civil Service eligibles, competitive examinations having been held for the same during this fiscal year, and the numerical force of the janitors and side sewer men being in no manner increased or added to.

RECAPITULATION.

	Petitions Received.	Public Contracts.	Private Contracts.	Permits Misc.
1901-02	996	61	97	349
1902-03	1,297	71	101	399
1903-04	1,310	60	190	522
1904-05	2,187	85	244	681
	Resolutions.	Civil Service Classi'd and Laborers.	Satisf'y Com.	
1901-02	781	163	22	140
1902-03	1,045	101	8	157
1903-04	1,473	25	6	174
1904-05	2,139	153	5	306

Respectfully,

LOUIS D. SLOSS,

Clerk Board of Public Works

LOUIS LEVY,

Secretary Board of Public Works.

Report of City Engineer

San Francisco, Cal., July 1, 1905.

To the Honorable the Board of Public Works
of the City and County of San Francisco.

Gentlemen:—During the past fiscal year, while the appropriation was the same as it was the year before, the business of this office has increased over that of former years, as is shown by the comparative statement of work done contained herein. Such were the opening words of my last annual report. They can now well be repeated. The work of this department increased last year even more than I had anticipated, the work for the coming year promises a still further increase and yet the appropriation remains the same as it has been for years. The recital of what was done, as contained in this report, being only words and figures to be hastily read and passed over, does not convey as full an idea of the situation as a mere statement of the fees earned, the money actually turned into the public treasury and from which we derived no benefit. Last year they amounted to \$22,910.50, over twice what they were three years ago, when the appropriation was \$60,000, as it was last year and as it is the coming year. The implied compliment to my ability to continue to do a constantly increasing amount of work with the same amount of money is appreciated. If I were allowed merely the increase in fees alone, which it would seem is the least that should be done, it would be more appreciated. It is most unsatisfactory to be unable to properly perform the work entrusted to you and to be compelled to leave undone the many things that should be done, some of which were enumerated in my last report. As it is, the pressing demands of the present have alone been considered. Much is expected of this important department and it is to be regretted that the Supervisors have failed to make adequate appropriation for its operation. The outlook for the coming year is not encouraging, for in addition to the increasing routine work, there are a number of special matters of great importance to demand our attention, such as the Geary Street Municipal Railroad, the Water Supply from the Sierras, the Pavements and Sewers under the Bond Issue, the Franchises and Grades of New Railroads and the installation of a High Pressure Fire Protection System. This work cannot be done with the money appropriated and it is not right, by withholding the necessary funds, to subject this department to any possible criticism for failure to do what might and should be expected of it. The responsibility should rest on those who control the appropriations. Former City Engineer Grunsky, who certainly understood the amount and importance of the work, realized the inadequacy of the appropriation in his time and was continually requesting an increase. How much more necessary it is now, with the increased growth of the City.

GEARY STREET RAILROAD.

Municipal ownership and the underground electric conduit railroad are about to be given a trial in San Francisco on the Geary Street Railroad, the franchise of which has expired and which is now being operated by its former owners until such time as the City can reconstruct it and operate it itself. This proposition was twice submitted to the voters of San Francisco but, while each time it received a majority of the votes cast, neither time did it receive the two-thirds vote required by the Charter. The Supervisors, however, recognizing the strong demand for municipal ownership and appreciating the opportunity offered, have decided to accomplish the desired result by means of annual appropriations in the budget. For the ensuing year they have set aside \$350,000 for the construction of the road the acquirement of a site and the building of a car house, the cost of which was estimated by me at \$403,705 in my report of May 25th, 1905, herewith appended.

It is proposed to make use of the old road-bed and old rails on Geary street and Point Lobos avenue from Kearny and Market streets to Fifth avenue, where the present road turns to Golden Gate Park, and thence, by entirely new construction, to extend out Point Lobos avenue to Tenth avenue and along Tenth avenue to Fulton street.

It should be insisted upon by those who favor municipal ownership and conceded by those who oppose it, that the experiment be inaugurated under the most favorable auspices. It should start off right. Everything in the construction of the road should be modern and up-to-date; the new municipal road should be a model. It should be as nearly perfect as possible; there should be nothing of the makeshift about it. Unfortunately, that much to be desired condition of affairs does not exist. The Supervisors, in their anxiety to have the work proceed under the limitations of the budget, decided to convert an old cable road into an underground electric conduit road, using the old rails and the old road-bed, and instructed me to prepare an estimate according to these requirements, which I have done. Such a construction should not have been considered.

It is to be expected that within one year from the time the new heavy cars run over the old rails, which are too light, and with yokes and rail joints of insufficient strength, it will become only too evident that the road should have been entirely rebuilt and that much of the money spent in the present proposed reconstruction was money wasted. Then those who are now demanding so earnestly that work should immediately begin, possibly without realizing in what manner the work would be done but anxious only that it be begun, will regret that they had not tempered their zeal with prudence. As it is, I shall make the best of the situation and shall see that the work is done as well and as speedily as possible under the conditions imposed. And in doing this I shall be carrying out the views of his Honor, Mayor Schmitz, who is heartily and fully communicated to municipal ownership.

Bion J Arnold, the eminent Chicago engineer, whose report to the City of Chicago, on its transportation problem, is universally accepted as the most recent authority, has this to say on the transformation of the cable lines into electric lines: "The yokes which were used in the construction of the cable railways in Chicago were not designed to carry heavy rolling stock such as now in daily operation on the electric lines and it is impracticable to convert the cable lines into underground electric railway and produce a satisfactory and desirable construction." After treating the subject fully, he concludes: "From the foregoing statements it will be seen that with the remodeling of the yokes to receive deeper rails, doubling the number of manholes, reconstructing the drainage system and attempting to fit the new work to old, the conversion of the existing cable lines into an underground electric system will probably involve an expenditure of money equal to the amount required to create an entirely new system of underground electric conduit, and the property created would not be as desirable as new construction throughout. Under conditions as above set forth, it seems as if little saving would be made in attempting to transform the existing cable conduit into electric conduit." The same condition prevails on our Geary Street road. It will be noted that Mr. Arnold assumes as a matter of course that at least the old rail is to be taken up and a new standard 9-inch, 109 pound rail is to be used. Here, it is intended to allow the old 4½ inch 72 pound rail to remain until it is worn out, which will not be very long. The gauge is 4 ft. 9 inches instead of the standard 4 feet 8½ inches, and the space between the tracks is insufficient to allow the use of modern wide cars, being only from 4 feet 2½ inches to 5 feet 3½ inches instead of 6 feet 3½ inches

ANOTHER MUNICIPAL RAILROAD.

In this connection I desire to call your attention to the fact which has been apparently overlooked, that the franchise of another railroad company has expired, and that there is another opportunity for the exercise of municipal ownership. On December 30th, 1904, the franchise expired of the Presidio and Ferries Railroad Companies on East street, Jackson street, Washington street, Montgomery avenue, and Union street westerly to Steiner street. Its franchise on Baker street from Greenwich street to Jefferson street (the short branch line to Harbor View) also expired on the same date. Its franchise from Union and Steiner streets to the entrance to the Presidio at Greenwich street will not expire until December 10, 1913. These seven blocks, all that are left to the company, could be readily paralleled by the City road.

NOTE.—The statement regarding the expiration of the foregoing franchises is in error as Order No. 2015 passed by the Board of Supervisors December 10, 1888, extended the period of the original franchise granted by Order No. 1549 to December 10, 1913.

THE SANITARY REDUCTION WORKS.

The garbage crematory, under the misnomer of the Sanitary Reduction Works, continues to be a nuisance which should be abated. Operating under a franchise which gives it the exclusive privilege of disposing of all garbage and refuse in the City and compels all scavengers to deliver their gatherings to it and pay it for taking them, it spreads its noxious fumes for miles around, and constitutes a nuisance not far removed from that which it was intended to abate. The plant does not admit of perfect combustion and never did, even before it was in its present condition. The only good thing about it is its chimney, which is more than ample for all requirements.

During the year a "scrubbing" apparatus has been installed in the four horizontal flues leading to the chimney, and through this shower bath all the smoke passes and is relieved of most of the dust and ashes it contains. Such an appliance would be unnecessary in a modern plant, and, as it is only claimed to be run ten hours during the day time and then only when the wind is in a certain direction, it does not accomplish one-half the good it was supposed it might. A report upon it is herewith appended.

Modern sanitary science has so far advanced that the inoffensive and inexpensive disposal of garbage is no longer an unsolved problem. The crematory company should be temporized with no longer. Report after report has been made upon the condition of affairs without producing desired results. The company should be compelled to properly reconstruct its works or else its franchise should be taken from it and the entire charge of the disposal of garbage be assumed by the City. This would seem to be a very proper subject for municipal ownership.

AUXILIARY HIGH PRESSURE FIRE PROTECTION SYSTEM

Legal proceedings have been started toward the condemnation of the land required on Twin Peaks for the reservoir of the proposed Auxiliary High Pressure Fire Protection System, and the appropriation of \$150,000 has been carried forward into the budget for 1905-1906. A tract, containing about 47 acres, south of Twentieth street and west of Lincoln avenue, considerably more than necessary for actual reservoir purposes, has been selected, which, in addition to its use as a holder of water, will become part of the general scheme for the beautification of San Francisco, which is being prepared by Mr. D. H. Burnham under the auspices of the Society which has taken that matter in charge. As stated in my last annual report, the plans for the High Pressure System have been only outlined. They should be prepared in detail so that the public could know how far they were intended to extend and how much they would cost. After paying for the land there will not be enough left of the present appropriation to build even the reservoir.

If the budget of each year should contain the amount set aside in the present one, and more could hardly be expected to be taken from the annual tax levy, the regular expense fund of the City, it would be a number of years before the least benefit could be derived from the system. Moreover, it appears questionable, outside of its desirability, whether it is legal, under the Charter, to acquire a public utility in such a piecemeal fashion. It seems essentially a matter for a bond issue. Its object, its extent and its expense should be set plainly before the people and they should be allowed to decide whether or not they wanted it. It is not fair to the project to subject its final completion to the changeable ideas of different Boards of Supervisors who might or might not be in favor of it, nor, on the other hand, is it fair to the City, by the expenditure of a comparatively small sum of money, to place it in a position where it may seem committed to the expenditure of a large sum, the amount of which has not been approximately estimated.

WORK UNDER BOND ISSUE.

The long expected and much needed improvement of our streets and sewers with money derived from the sale of bonds is about to begin. On February 28th, 1905, bonds were sold for the pavement of streets amounting to \$243,000. Bonds for sewers were sold February 28th for \$281,200; May 11th, \$100,000; May 22d, \$343,600; a total of \$724,800. It was not, however, until May 2d, that the Supervisors allowed any money for the preparation of plans and specifications and then only for the pavement of Mission street between 2d street and 5th street, and for the sewer on H street, between 7th avenue and 20th avenue. This was hardly a beginning and not until June 12th, were any more appropriations made for the use of this office. These were for sewers in Mission street from Onandaga avenue to Amazon street; Fourth street from Howard street to Channel street; Mission street, from Second street to East street; Sixth street and tributaries; Persia avenue and Mission street; and in the West Richmond District and for the paving of Valencia street from Eighth street to Mission street and for the completion of the paving of Mission street between East street and Ninth street. Several valuable months were thus lost in the commencement of the work but it is believed that in six months one half million dollars worth of contracts will be let and it will be necessary to dispose of more bonds.

PAVEMENTS.

The experience of the past year confirms me in my opinion of the superiority of asphalt over bituminous rock pavements. It is the superiority of a material carefully prepared according to definite formulae determined after full scientific investigation over the chance mixture by nature of ingredients which may produce a good result but more often produces an unsatisfactory one. As the cost of the better pavement is no more than that of the unreliable one, it is hoped that its use will become more general. In many cases where basalt block pavement has been deemed necessary it is questionable whether asphalt, considering its first cost and subsequent cost for repairs, is not preferable.

The necessity of constant attention to our newly laid modern pavements is shown in the condition of the basalt block pavement on Third street. Proper maintenance is of as much importance as proper construction.

WATER SUPPLY.

The necessity of a pure and abundant water supply still exists. Two propositions to secure water from the Sierras have been submitted to the Board of Supervisors and will be investigated. One is from the American River and the other from the Mokelumne river. It is probable that others will be presented. There is still a possibility that the Tuolumne river project, the only one that does not require the purchase of water rights, may receive favorable consideration from the United States authorities, in Washington. In the meanwhile, the Spring Valley Water Company is straining every effort to supply San Francisco's ever increasing needs, but the public demands something more satisfactory and reliable.

THE EXTENSION OF EIGHTH STREET.

The occupation by the tracks of the Southern Pacific Railroad of the southern end of Seventh street and the virtual exclusion therefrom of the ordinary street traffic renders it very desirable that the residents of the Potrero be given another and better means of access to the northern portion of the City. This can be accomplished by the extension of Eighth street from Rhode Island street to Alameda street, through Block 168 and from DeHaro street to Carolina street, through Block 170. This would give an uninterrupted roadway on Eighth street from Market to Sixteenth street in the Potrero.

THE THIRD STREET BRIDGE.

The Page Bascule bridge, being built for the City by the Atchison, Topeka and Santa Fe Railway Company across Channel Street, connecting Third street with Kentucky street, is still in process of construction. The concrete piers are completed and it is expected that the steel superstructure will be in position and the bridge in working order before the end of the year. Upon its completion a full and detailed report of its construction, accompanied with plans, will be prepared for the next annual report.

A modern bridge should be constructed on Channel street at Fourth street to replace the antiquated structure that has been there so many years.

SUMMARIZED STATEMENT OF EXPENDITURES AND REVIEW OF WORK
DONE DURING THE FISCAL YEAR ENDING JUNE 30, 1905.

The total receipts of this office for the fiscal year ending June 30, 1905, have been \$22,910.50.

These receipts consist of fees received for certain classes of work done by the Division of Street and Lot Surveys, and are classified as follows:

Surveys on contract work, charged to private property.	\$10,586.50
Surveys on lots for private parties	12,324.00
Total.....	<u>\$22,910.50</u>

All fees received have been deposited with the cashier of the Board of Public Works and receipts are held for same.

The total expense of the office for the fiscal year has been \$62,547.58.

This may be classified as follows:

Salary of City Engineer.....	\$ 4,999.92
Salaries and Wages, Division of Street and Lot Surveys and Division of Construction.....	51,559.78
Materials.....	1,570.58
Incidentals (transportation, repairs, horse hire, etc.) ...	748.15
Official Map of City and County, for assessment purposes	3,669.15
Total.....	<u>\$62,547.58</u>

THE EXPENDITURES FOR SALARIES AND WAGES, INCLUDING WORK
ON THE OFFICIAL MAP MAY BE CLASSIFIED AS FOLLOWS:

1904-05.	Field.	Office.	Total.
Lot surveys for private parties.....	\$ 9,295.09	\$ 2,033.21	\$11,328.30
Lot surveys for city.....	196.03	5.11	201.14
Surveys for street improvements charged to private property.....	4,959.74	3,246.51	8,206.25
Surveys for street improvements, charged to city, contract work.....	1,527.81	438.95	1,966.76
Miscellaneous surveys charged to private property	44.10	26.82	70.92
Surveys for purpose of setting monuments, fixing lines of streets.....	1,290.26	436.57	1,726.83
Levels and profiles (other than precise levels)....	370.19	32.26	402.45
Precise levels.....	24.85	190.15	215.00
Plans and specifications, construction charged to private property.....	9.84	516.82	526.66
Plans and specifications, construction charged to city.....		440.77	440.77
Supervision of construction, charged to private property.....	1,378.32	38.27	1,416.59
Supervision of construction, charged to city.....	1,476.22	53.35	1,529.57
Laboratory work.....	104.76	2,557.70	2,662.46
General sewer plans.....	130.49	2,057.07	2,187.56
Matters referred by Board of Public Works for investigation and report	168.16	3,248.69	3,416.85
Changes of grades.....	290.46	1,657.76	1,948.22
Opening, widening and extending streets.....	12.19	271.89	284.08
Assessment maps for street improvements.....		112.93	112.93
Official map of city for assessment purposes.....	296.54	3,669.15	3,965.69
Arranging and indexing office records.....		546.03	546.03
General office work and management.....		10,073.03	10,073.03
Miscellaneous matters not included in the above..	1,030.66	1,255.30	2,285.96
	<u>\$22,605.71</u>	<u>\$32,908.34</u>	<u>\$55,514.05</u>

REPORT OF CITY ENGINEER

The following tabulated statement gives the receipts of the Bureau of Engineering during the past five years in form of comparison:

COMPARATIVE STATEMENT OF RECEIPTS, BUREAU OF ENGINEERING,
DURING 1900-01, 1901-02, 1902-03, 1903-04, 1904-05.

CLASSES OF WORK.	Year 1900-1901.	Year 1901-1902.	Year 1902-1903.	Year 1903-1904.	Year 1904-1905.
Surveys on contract work, charged to private parties.	\$ 4,408.75	\$ 4,465.25	\$ 5,638.75	\$ 7,894.50	\$10,586.50
Surveys on lots for private parties.....	5,603.00	6,841.00	8,482.00	9,297.50	12,324.00
Total.....	\$10,011.75	\$11,306.25	\$14,120.75	\$17,192.00	\$22,910.50

The following tabulated statement gives the expenses of the Bureau of Engineering during the past five years in form of comparison:

COMPARATIVE STATEMENT OF EXPENSES OF THE BUREAU OF ENGI-
NEERING DURING THE FISCAL YEARS 1900-01, 1901-02,
1902-03, 1903-04, 1904-05.

APPROPRIATIONS.

CLASSIFICATION.	Year 1900-1901.	Year 1901-1902.	Year 1902-1903.	Year 1903-1904.	Year 1904-1905.
	Gen.Force.	Gen.Force.	Gen.Force.	Gen.Force.	Gen.Force.
	\$57,930.00	\$60,000.00	\$60,000.00	\$60,000.00	\$60,000.00
	Pub.Util.	Pub. Util.	Pub. Util.		Assessor Blk. Book.
	\$30,000.00	\$20,000.00	\$ 5,000.00		\$ 4,500.00
Salary of City Engineer ..	\$ 5,000.00	\$ 4,999.92	\$ 4,999.92	\$ 4,032.20	\$ 4,999.92
Salaries and wages, Divi- sion of street and lot sur- veys and division of construction.....	\$34,359.32	\$50,386.30	\$51,584.83	\$52,778.55	\$51,559.78
Materials.....	5,350.56	2,098.56	2,034.78	1,711.44	1,570.58
Incidentals (transporta- tion, repairs, horse hire, etc.).....	815.32	2,006.67	1,370.00	1,471.35	748.15
Investigation of Public Utilities.....	29,042.83	19,999.39	3,994.16		
Appraisalment of Real Es- tate values.....		500.00			
Fitting up office rooms.....	1,999.64				
Assessor's Block Books.....					3,669.15
Totals.....	\$76,567.67	\$79,990.84	\$63,983.69	\$59,993.54	\$62,547.58

The following persons are now connected with the Division of Street and Lot Surveys and the Division of Construction. This list embraces all employees of the Bureau of Engineering.

City Engineer—Thomas P. Woodward.

Chief Assistant Engineer—E. J. Morser.

Assistant Engineers—H. D. Connick, J. W. Parker, O. N. Sanford, J. R. Price, A. D. Cross, F. A. Temple.

Surveyors—Chas. H. Holcomb, H. D. Gates, S. Harrison Smith, H. H. Hollidge, Wm. C. Pidge, Carl Hilpisch, J. F. H. Stahle.

Draughtsmen—W. A. Smith, Jas. M. Owens, Robert Munch, Peter Summerfield, A. L. Auradout, C. P. Bowie, G. J. Couchot, J. C. Gard, L. R. Mercado, H. W. Shimer, Jos. Edelmann, J. L. Mery, C. H. Sawyer.

Chemist—John H. Gray, Jr.

Assistant Chemist—Jas. Reavy.

Surveyors' Field Assistants—P. W. Brady, B. D. Rickey, H. H. Ely, W. D. Evans, J. W. Farnham, W. H. Firebaugh, Jas. A. Garbarino, Jas. H. Flynn, Daniel Greene, Geo. H. Grinnell, D. R. Hult, W. W. Mathewson, Andrew Olsen, Ed. A. Parker, Chas. Gardiner, J. J. Halloran, Robert McCrea.

Stenographers—Miss A. B. Code, Miss L. L. Wills.

In addition to the above the following have been connected with said divisions during some portion of the past year:

S. A. Tibbetts, draughtsman, resigned.

F. C. Herrmann, assistant engineer, resigned.

J. O. Burrage, draughtsman, resigned.

W. H. Popert, assistant engineer, resigned.

J. J. Halloran, inspector of construction, appointed as field assistant.

The following persons are now serving as inspectors on construction of public works:

Jno. J. Mulcrevy, Wm. J. Turner, Jno. J. McGowan, Thos. Christal, Ed. Deady, Wm. Roche, Francis Bridges, J. J. McKinnon, Lawrence McMahon, P. C. O'Dowd, J. W. Sloane, J. J. Sullivan, J. J. Sweeney, Wm. Lowe, Jos. Casey, H. A. Clark, D. J. Seegelken

Inspectors are not constantly employed and are paid only when they work. The expense for inspection is a charge met by the contractor, except on repaving accepted streets and other public works, where the cost of the work is borne by the City. In these cases the inspection is paid by the City and charged as a part of the work.

The following tabulated statement gives a brief summary of some of the different classes of work done during the past three fiscal years in form of comparison:

COMPARATIVE STATEMENT OF SOME OF THE DIFFERENT CLASSES OF WORK DONE BY THE BUREAU OF ENGINEERING DURING 1902-03, 1903-04, 1904-05.

CHARACTER OF WORK.	1902-03.	1903-04.	1904-05.
Lot surveys.....	647	690	835
Duplicate diagrams issued.....	6	8	25
Surveys made for construction and in connection with matters referred to the office for investigation.....	710	620	1,033
Miles of streets and avenues of which re-surveys fixing lines have been made, the work still being incomplete.....	17.55 miles	25.7 miles	3.8 miles
Miles of streets of which surveys have been made for the purpose of making profiles and establishing grades.....	12.3 miles	8 miles	6.5 miles
Miles of streets of which profiles have been made (office work).....	12.3 miles	5 miles	6.5 miles
Miles of streets on which precise levels have been run.....	60.4 miles	36.2 miles	none
Miles of streets on which subsidence levels have been run.....	3.16 miles	none	none
Number of bench marks established.....	465	412	none
Number of specifications.....	250	316	361
Number of contracts for street improvements completed, work on which has been supervised.	160	199	275
Number of contracts for street improvements, work on which was in progress at the end of the fiscal year.....	22	12	23
Number of matters referred to the office for investigation and report.....	592	897	1,133
Number of reports recommending grade changes.	31	29	30
Number of grade changes recommended.....	236	135	190
Number of reports rendered recommending establishment of grade.....	16	25	37
Number of grade establishments recommended..	111	97	217
Number of reports accompanied by maps showing extent and boundaries of assessment districts for grade changes, together with estimated costs and damages.....	14	26	25

In addition to that above given, the work of making surveys for the purpose of setting permanent monuments and fixing lines of streets has been in progress in the following tracts:

	Miles.	Feet.
Thornton and Williams Tract (incomplete).....	3	1,410
College Hill Tract.....	3	2,915

The work of running levels for profiles and for the establishment of grades has been completed on the following streets:

Alma, Cole to Stanyan streets.
 Ashbury, 16th to 17th streets.
 Army, San Bruno avenue to Holliday avenue.
 Buena Vista avenue, Central avenue to Waller street.
 Boyce street, Pt. Lobos avenue to St. Rose avenue.
 B street, 41st to 47th avenues.
 Birch avenue, Van Ness avenue westerly.
 Cliff House road, Great Highway to Cliff House.
 Cook street, Pt. Lobos avenue to St. Rose avenue.
 College avenue, Mission street to St. Mary's avenue.
 Elsie street, Coso to Esmeralda avenues.
 Emma street, Stockton street easterly 110 feet.
 Elm avenue, Pierce to Scott streets.
 Francisco street, Leavenworth to Hyde streets.
 42nd avenue, Fulton street to "A" street.
 43rd avenue, "A" street to Fulton street.
 44th avenue, "A" street to Fulton street.
 45th avenue, "B" street to Fulton street.
 46th avenue, "A" street to Fulton street.
 47th avenue, "A" to "B" streets.
 48th avenue, Pt. Lobos avenue to "B" street.
 Federal street, Second street easterly 275 feet.
 Grattan street, Cole to Stanyan street.
 Japan street, Brannan to Townsend streets.
 King street, 2nd to 3rd streets.
 Leland avenue, San Bruno avenue to Beta street.
 Lilac alley, 24th to 25th streets.
 Lily avenue, Buchanan street westerly 247 feet.
 Leavenworth street, Chestnut to Bay streets.
 Maggie alley, Jones street easterly 137 feet 6 inches.
 McAllister street, Parker avenue westerly.
 North Stanyan street, Fulton to McAllister streets.
 Ocean avenue, Corbett avenue westerly 1,000 feet.
 Olympus, 17th street northerly.
 Quince alley, 23rd to 24th streets.
 San Bruno avenue, Raymond to Sunnydale avenues.
 Shrader street, Grattan to Alma streets.
 Second street, Townsend to King streets.
 Shephard place, Mason street easterly 112 feet.
 Townsend street, 1st to 2nd streets.
 Treat avenue, southerly from Precita avenue 200 feet.
 27th street, Church to Dolores streets.
 Tay street, Clay street southerly 137 feet 6 inches.
 26th avenue, California to Lake streets.
 Vicksburg street, 24th to 25th streets.
 Wagner alley, Eddy street southerly.

Street improvements have been completed under the direction and supervision of the office costing \$770,658.39. Similar street improvements made during the fiscal year 1902-03 cost \$437,355.92, and during 1903-04, \$586,996.29.

STATEMENT OF STREETS IMPROVED DURING 1904-05, GIVING CHARACTER OF IMPROVEMENTS AND CLASSIFICATION AS TO MANNER IN WHICH PAYMENT FOR SAME WAS MADE.

(a) PUBLIC CONTRACTS PAID FOR BY THE CITY AND COUNTY.

(Not including work in front of City Property)

Street	From or Crossing.	To	Description of Work.
Alabama	25th street		Catchbasins rebuilt.
Buena Vista avenue	Haight street		Bituminous rock sidewalks on easterly half.
Clement	2d, 3d, 5th and 6th avenue.	Montgomery ave	
Dupont	Filbert		Catchbasins rebuilt.
Hayes	Larkin	Van Ness avenue	Bituminous rock pavements on cobbles with binder, basalt blocks on sand asphalt grouting, granite curbs on concrete, basalt block gutters, cross-walks redressed, and reproaches relaid
Hoffman avenue	24th street		Asphalt on concrete, granite curbs on concrete, basalt block gutters, and approaches relaid.
Jessie	N. Montgomery	2d street	Catchbasins rebuilt with culverts and 15-inch ironstone pipe sewer.
Market	Grant avenue	303 ft. westerly	Asphalt on cobbles with binder course, granite curbs on concrete and basalt block gutters.
Nineteenth avenue.	Ocean avenue	Trocadero road	Bituminous rock pavement on north side.
Pierce	Vallejo		Grading, macadam roadway and walks, red wood curbs and rock gutters.
San Bruno avenue.	25th street		Bituminous rock pavement, artificial stone sidewalks, curbs reset and catchbasins rebuilt.
Scott	Fulton	Hayes	Bituminous rock pavement, catchbasins rebuilt with culverts.
Scott	Fulton		Artificial stone sidewalks on east side.
Stevenson	Annie	3rd street	Bituminous rock pavement on concrete.
Stevenson	10th street		Asphalt on cobbles with binder course, granite curbs on concrete and basalt block gutters.
Vallejo	Battery	Front street	Bituminous rock pavement on concrete and 8-inch iron stone pipe sewer.
Vallejo	Dupont	Montgomery ave	Basalt blocks on concrete, asphalt grouting, granite curbs on concrete and basalt block gutters.
Vermont	25th street		Bituminous rock pavement on cobbles with binder, curbs reconstructed and basalt block gutters.
Wetmore Place	Clay	Washington	Catchbasins rebuilt with culverts. Manhole repaired.

(b) PUBLIC CONTRACTS PAID FOR BY PROPERTY OWNERS.
(Including the City and County.)

Street.	From or Crossing.	To	Description of Work.
Anderson	Cortland avenue	Eugenia avenue	12-inch ironstone pipe sewer with Y branches, manholes and lamphole.
Anderson	Eugenia ave s. line	Powhattan	8 inch and 12 inch ironstone pipe sewer with Y branches, manholes, lamphole, catchbasins with culverts.
Arlington	Natick	R. R. culvert	12 inch ironstone pipe sewers with Y branches and manholes.
Ashbury	18th street.	134 feet northerly.	8 inch ironstone pipe sewer with Y branches and manholes.
Ashbury	Frederick	525 feet southerly.	Artificial stone sidewalks.
Bryant	21st street.	22nd street	Artificial stone sidewalks.
Chenery	Natick	Roanoke	18 inch ironstone pipe sewer with Y branches and manholes.
Chenery	Palmer		8 inch ironstone pipe sewer, catchbasins with culvert.
Church	25th street.		Bituminous rock pavement on concrete, granite curbs relaid and artificial stone sidewalks.
Church	28th street.		Bituminous rock pavement on concrete and artificial stone sidewalks.
Church	Valley.		Bituminous rock pavement on concrete and artificial stone sidewalks.
Church	Jersey.		Bituminous rock pavement on concrete and artificial stone sidewalks.
Church	Army		Bituminous rock pavement on concrete, granite curbs relaid and artificial stone sidewalks.
Church	26th street.		Bituminous rock pavement on concrete granite curbs relaid and artificial stone sidewalks.
Clement.	2nd avenue		Bituminous rock pavement on concrete, granite curbs, artificial stone sidewalks and catchbasin with culvert.
Clement.	3rd avenue		Bituminous rock pavement on concrete, granite curbs relaid and artificial stone sidewalks.
Clement.	4th avenue		Bituminous rock pavement on concrete, granite curbs relaid and catchbasins with culverts.
Clement.	5th avenue		Bituminous rock pavement on concrete, granite curbs and artificial stone sidewalks.
Clement.	6th avenue		Bituminous rock pavement on concrete, granite curbs, artificial stone sidewalks and catchbasins with culvert.
Cole	Carl (center)	Parnassus avenue.	Grading and 2 feet 6 inches by 3 feet 9 inches brick sewer with inlets.
De Haro	23rd street.	Bryant	8 inch ironstone pipe sewer with Y branches and manholes.
Dore	Brannan		Bituminous rock pavement on concrete, granite curbs, artificial stone sidewalks and catchbasins with culverts.
Douglass.	24th street.	Fronting Noe Valley school.	Granite curbs and artificial stone sidewalks.
Douglass.	24th street.		Granite curbs relaid, artificial stone sidewalk and catchbasin.
Duboce avenue.	Church		12 inch ironstone pipe sewer with manhole.
Duboce avenue.	Church	Market	Bituminous rock pavement on concrete, granite curbs, artificial stone sidewalks, 8 inch and 12 inch ironstone pipe sewer with manhole and catchbasin with Culvert.

Eighteenth avenue	Castro	Danvers	Artificial stone sidewalks.
Eleventh avenue	H street	I street	Artificial stone sidewalks.
Eleventh avenue	K street	175 feet southerly	Redwood curbs, and macadam on roadway and sidewalks.
Eleventh avenue	K street		Grading, redwood curbs, and macadam roadway and walks, 8 inch and 10 inch ironstone pipe sewer, manhole and catchbasin with culverts.
Eleventh avenue	L street	M street	Grading roadway.
Fairmount	Palmer		8 inch, 12 inch and 14 inch ironstone pipe sewers, manholes and catchbasin with culverts.
Florida	25th, Florida school frontage	26th street	Bituminous rock pavement on concrete, granite curbs relaid and artificial stone sidewalks.
Frederick	De Long avenue	Masonic avenue	Artificial stone sidewalks.
Green	Broderick	Devisadero	Bituminous rock pavement on concrete with 14 feet basalt block strip, and granite curbs.
Green	Pierce	Steiner	Artificial stone sidewalks.
Herrman	Buchanan w. line	Laguna e. line	Bituminous rock pavement on concrete, same with 14 feet basalt block strip, granite curbs, manholes and lamphole.
Hickory avenue	Buchanan	Webster	Y branches, manholes and granite curbs, basalt block gutters, artificial stone sidewalks and manhole.
Hoffman avenue	24th street	25th street	15 inch ironstone pipe sewer with Y branches and manholes.
Hugo	2nd avenue	3rd avenue	Bituminous rock pavement on concrete and granite curbs.
Hugo	2nd avenue		Bituminous rock pavement on concrete and granite curbs.
H street	9th avenue		Bituminous rock pavement on concrete, granite curbs, artificial stone sidewalks and catchbasins with culverts.
I street	9th avenue		Bituminous rock pavement on concrete and granite curbs relaid.
Lake	26th ave. e. line	27th avenue	Redwood curbs, macadam roadway and sidewalks.
Lily avenue	Buchanan	Laguna	Basalt block pavement on sand, granite curbs and basalt block gutters.
Mateo	Chenery	Laidley	12 inch ironstone pipe sewer with Y branches and manholes.
M street	10th avenue		Grading, redwood curbs, macadam roadway and sidewalks.
Natick	Arlington	Chenery	18 inch ironstone pipe sewer with Y branches and sidewalks.
Ninth ave. south	N street north	300 feet so. easterly	8 inch ironstone pipe sewer with Y branches and manholes.
North Point	Powell	Stockton	8 inch ironstone pipe sewer with Y branches and manholes.
Pacific ave. so. side	Presidio avenue	Walnut	Artificial stone sidewalks.
Palmer	Chenery n. line	Fairmount s. line	8 inch ironstone pipe sewer with Y branches and manholes.
Park Hill	Buena Vista ave.	Masonic ave.	8 inch and 12 inch ironstone pipe sewers with Y branches, manholes, catchbasins with culverts.
Sacramento	Maple	Spruce	Artificial stone sidewalks.
San Bruno avenue	24th street		Bituminous rock pavement on concrete.
Scott	Grove		Bituminous rock pavement on concrete.
Tilden	Park Hill avenue	15th street	15 inch and 18 inch ironstone pipe sewer with Y branches, manholes, catchbasins with culverts.
Twelfth avenue	I street	I street	Artificial stone sidewalks.
Twelfth ave. so.	L street so.	M street so.	10 inch ironstone pipe sewer with Y branches and manholes.
Twenty-first so. side	Bryant	York	Artificial stone sidewalks.
Twenty-first avenue	California	Lake (center)	8 inch ironstone pipe with Y branches, manhole.
Twenty-seventh	Guerrero	San Jose avenue	Artificial stone sidewalk.
Waller	Carolina	De Haro	12 inch ironstone pipe sewer with Y branches and manholes.
Wilder	Ashbury	Clayton	Artificial stone sidewalks.
Wildley avenue	Fillmore	Webster	Bituminous rock pavement on concrete, granite curbs, artificial stone sidewalks.

(c) PRIVATE CONTRACTS PAID FOR BY PROPERTY OWNERS.
(Including the City and County)

Street.	From or Crossing.	To	Description of Work.
B street.	46th avenue.	47th avenue.	8 inch ironstone pipe sewer with Y branches and manholes.
B street.	47th avenue.	48th avenue.	8 inch ironstone pipe sewer with Y branches and manholes.
B street.	48th avenue.	49th avenue.	8 inch ironstone pipe sewer with Y branches and manholes.
Baker.	Broadway.	Pacific avenue.	Bituminous rock pavement on concrete with 14 feet basalt block strip and granite curbs.
Baker.	Golden Gate ave..	Turk.	Bituminous rock pavement on concrete with 14 feet basalt block strip, granite curbs and artificial stone sidewalk.
Baker.	Oak.	Page.	Bituminous rock pavement on concrete with 14 feet basalt block strip and granite curbs.
Belvedere.	Haight.	Waller.	Bituminous rock pavement on concrete.
Birch avenue.	Van Ness avenue.	218 feet westerly.	Bituminous rock pavement on concrete, granite curbs relaid.
Bowie place.	11th street.	Northerly term.	Bituminous rock pavement on concrete and granite curbs.
Brazil avenue.	London street.	Paris street.	12 inch ironstone pipe sewers with Y branches and manholes.
Brazil avenue.	London street.	Paris street.	12 inch ironstone pipe sewer, manhole and catchbasin with culverts.
Brazil avenue.	Paris street.	Paris street.	8 inch and 12 inch ironstone pipe sewer, manholes and catchbasin with culverts.
Brazil avenue.	Lisbon street.	Paris street.	8 inch ironstone pipe sewer with Y branches and manholes.
Broderick.	Broadway.	Vallejo.	Cobble pavement, granite curbs and basalt block gutters.
Broderick.	Broadway.	Vallejo.	Cobble pavement, granite curbs and basalt block gutters.
Buchanan.	Filbert.	Greenwich.	Bituminous rock, pavement on concrete and granite curbs.
C street.	47th avenue.	49th avenue.	Redwood curbs, 8 inch and 18 inch ironstone pipe sewer with Y branches, manholes and catch basins with culverts.
Carlos place.	O'Farrell (center)	Southerly term.	10 inch ironstone pipe sewer with Y branches.
Castro.	Jersey.	25th street.	Bituminous rock pavement on concrete and granite curbs.
Castro westerly.	Castro.	24th street.	Bituminous rock pavement on concrete and granite curbs relaid.
Castro.	Jersey.	Jersey.	Bituminous rock pavement and sidewalks on concrete.
Castro.	Henry.	15th street.	Bituminous rock pavement on concrete and granite curbs.
Castro.	DuBoce.	14th street.	Bituminous rock pavement on concrete and granite curbs.
Central avenue.	Fulton.	Grove.	Bituminous rock pavement on concrete and granite curbs.
Central avenue.	Grove.	Turk.	Bituminous rock pavement on concrete and granite curb relaid.
Central avenue.	Golden Gate.	Turk.	Bituminous rock pavement on concrete with 14 feet basalt block strip and granite curbs.
Central avenue.	Oak.	Page.	Bituminous rock pavements on concrete with 14 ft. basalt block strip and granite curbs.
Chattanooga.	21st street.	22d street.	Bituminous rock pavement on concrete with 14 feet basalt block strip and granite curbs.
Chenery.	Randall.	30th street.	Bituminous rock pavement on concrete granite curbs.
Church.	Clay.	Washington.	Bituminous rock pavement on concrete granite curbs.
Church.	23rd street.	24th street.	Bituminous rock pavement on concrete and granite curbs.
Church.	Chipper.	26th street.	Bituminous rock pavement on concrete and granite curbs.

Church.....	Clipper.....	Bituminous rock pavement on concrete granite curbs relaid and catchbasins, lowered.
Church.....	24th street.....	Bituminous rock pavement on concrete and granite curbs.
Church.....	Army.....	Bituminous rock pavement on concrete and granite curbs.
Church.....	Duncan.....	Bituminous rock pavement on concrete and granite curbs.
Church.....	27th street.....	Bituminous rock pavement on concrete and granite curbs.
Church.....	Clipper.....	Bituminous rock pavement on concrete and granite curbs.
Church.....	Army.....	Bituminous rock pavement on concrete and granite curbs.
Church.....	26th street.....	Bituminous rock pavement on concrete and granite curbs.
Church.....	Duncan.....	Bituminous rock pavement on concrete and granite curbs.
Church.....	28th street.....	Bituminous rock pavement on concrete and granite curbs.
Church.....	reset.	Bituminous rock pavement on concrete, granite curbs relaid and catchbasins
Church.....	26th street.....	Bituminous rock pavement on concrete.
Clayton.....	Parnassus avenue.....	Bituminous rock pavement on concrete, granite curbs and catchbasins with culverts.
Clayton.....	237 feet northerly.....	Grading roadway.
Clement.....	8th avenue.....	Bituminous rock pavement on concrete and granite curbs.
Clement.....	6th avenue.....	Bituminous rock pavement on concrete and granite curbs.
Clement.....	4th avenue.....	Bituminous rock pavement on concrete and granite curbs.
Clement.....	5th avenue.....	Bituminous rock pavement on concrete and granite curbs.
Clement.....	6th avenue.....	Bituminous rock pavement on concrete and granite curbs.
Clement.....	7th avenue.....	Bituminous rock pavement on concrete and granite curbs.
Clement.....	8th avenue.....	Bituminous rock pavement on concrete and granite curbs.
Clement.....	3rd avenue.....	Bituminous rock pavement on concrete and granite curbs.
Clement.....	4th avenue.....	Bituminous rock pavement on concrete and granite curbs.
Clinton Park.....	Dolores.....	Basalt block pavement on sand, granite curbs, basalt block gutters and artificial stone sidewalks.
Cole.....	Grattan.....	Bituminous rock pavement on concrete and granite curbs.
Cole.....	Alma.....	Bituminous rock pavement on concrete, granite curbs 12 inch pipe sewer and catchbasins with culverts.
Devisadero.....	Duboce avenue.....	Bituminous rock pavement, granite curbs, 8 inch ironstone pipe sewer with Y branches, manholes and catchbasins with culverts.
Dolores.....	22nd street.....	Bituminous rock pavement on concrete and granite curbs relaid.
Dore.....	Folsom.....	Bituminous rock pavement on concrete with 14 feet basalt block strip, granite curbs, 8 inch ironstone pipe sewers with Y branches and manholes.
Dorland.....	Dolores.....	Bituminous rock pavement on concrete and granite curbs.
Duboce avenue.....	Church.....	Bituminous rock pavement on concrete, granite curbs, artificial stone sidewalks, 8 inch ironstone pipe sewers with Y branches, manholes and catchbasins with culverts.
Eleventh avenue.....	K street.....	Redwood curbs, macadam on roadway and sidewalks, 10 inch ironstone pipe sewer with Y branches and manholes.
Eleventh avenue.....	J street.....	Redwood curbs and macadam sidewalks.
Elizabeth street.....	Noe.....	Bituminous rock pavement on concrete, granite curbs relaid and catchbasins reset.
Elizabeth.....	Noe.....	Bituminous rock pavement on concrete, granite curbs, catchbasins with culverts
Elizabeth.....	Sanchez.....	Bituminous rock pavement on concrete and granite curbs.
Fair Oaks.....	Vicksburg.....	Bituminous rock pavement on concrete with 14 feet basalt strip, granite curbs and manholes.
Fifteenth.....	24th st. N. line.....	Bituminous rock pavement on concrete and granite curbs.
Fifteenth.....	Church.....	Bituminous rock pavement on concrete and granite curbs.

(c) PRIVATE CONTRACTS PAID FOR BY PROPERTY OWNERS—Continued.

Street.	From or Crossing	To	Description of Work.
Fifth avenue.....	348 ft. n. of Lake	311.5 feet n'ly.....	8 inch ironstone pipe sewer with Y branches and manholes.
Fifth avenue.....	Clement.....	Pt. Lobos avenue.....	Bituminous rock pavement on concrete and granite curbs.
Fifth avenue.....	Lake.....	Presidio Wall.....	Bituminous rock pavement on concrete with 14 feet basalt block strip and granite curbs.
Fifth avenue.....	California.....	Clement.....	Bituminous rock pavement on concrete and granite curbs.
Fifth avenue.....	California.....	Lake.....	Bituminous rock pavement and concrete and granite curbs.
Filbert.....	Buchanan.....	Laguna.....	Bituminous rock pavement on concrete and granite curbs.
Filbert.....	Polk.....		Bituminous rock pavement on concrete, granite curbs relaid and catchbasins with culverts.
First avenue.....	H street.....	Hugo street, s. line	Bituminous rock pavement, on concrete, same with 14 feet basalt block strip, and granite curbs.
First avenue.....	Frederick.....	I street.....	8 inch, 10 inch, 12 inch and 15 inch ironstone pipe sewer with Y branches, manholes and catchbasins with culverts.
First avenue.....	Jackson.....		Bituminous rock pavement on concrete and granite curbs.
Florida.....	25th street.....	26th street.....	Bituminous rock pavement on concrete and granite curbs.
Florida.....	23th street.....		Bituminous rock pavement on concrete and granite curbs.
Florida.....	24th street.....	25th street.....	Bituminous rock pavement on concrete and granite curbs.
Forty-eighth ave.....	C street.....	Fulton.....	Bituminous rock pavement on concrete and granite curbs.
Forty-eighth ave.....	B street.....	C street.....	Redwood curbs, 8 inch ironstone pipe sewer with Y branches and manholes.
Forty-eighth ave.....	J street.....		8 inch ironstone pipe sewer with Y branches and manholes.
Forty-eighth ave.....	B street.....	C street.....	Redwood curbs and macadam roadway and sidewalks.
Forty-seventh ave.....	C street.....	Fulton.....	8 inch ironstone pipe sewer with Y branches and manholes.
Forty-seventh ave.....	B st. s'ly line.....	Sutro Heights ave.....	Redwood curbs, 8 inch ironstone pipe sewer with Y branches and manholes.
Forty-sixth ave.....	B street.....	C street.....	Granite curbs, redwood curbs, 8 inch and 12 inch iron stone pipe sewers with Y branches, manholes and catchbasins with culverts.
Fourteenth street.....	Alpine.....	Castro.....	8 inch ironstone pipe sewer with Y branches and manholes.
Fourth avenue.....	I street.....		Bituminous rock pavement on concrete, with 14 feet basalt block strip, granite curbs, 8 inch ironstone pipe sewers, catchbasins.
Fourth avenue.....	Hugo street.....	I street.....	Bituminous rock pavement on concrete and granite curbs.
Fourth avenue.....	California.....	Lake.....	Bituminous rock pavement on concrete, granite curbs.
Fourth avenue.....	Clement.....	Pt. Lobos avenue.....	Bituminous rock pavement on concrete, granite curbs.
Fourth avenue.....	California.....	Clement.....	Bituminous rock pavement on concrete, granite curbs.
Franklin.....	Filbert.....	Greenwich.....	Bituminous rock pavement on concrete and granite curbs.
Frederick.....	Stanyan.....	Willard.....	Bituminous rock pavement on concrete and granite curbs.
Fulton.....	25th avenue.....	26th avenue.....	Grading roadway.
Golden Gate avenue.....	Central avenue.....	Masonic avenue.....	Bituminous rock pavement on concrete and granite curbs.
Gordon.....	Harrison.....	Northly term.....	Bituminous rock pavement on concrete and granite curbs.
Grattan.....	Shrader.....	Stanyan.....	8 inch ironstone pipe sewer with Y branches and manhole,

Green.....	Pierce.....	Steiner.....	Bituminous rock pavement on concrete and granite curbs.
Greenwich.....	Franklin.....	Van Ness avenue.....	Bituminous rock pavement on concrete, with 14 feet basalt block strip and granite curbs.
Grove.....	Shrader.....	.....	8 inch and 12 inch ironstone pipe sewer, manhole and catchbasins with culverts.
Hampshire.....	22nd street.....	.....	Bituminous rock pavement on concrete and granite curbs.
Hampton Place.....	Folsom.....	275 th southerly.....	8 inch ironstone pipe sewer with Y branches, manholes and lamphole.
Howard.....	29th street.....	.....	Bituminous rock pavement on concrete and granite curbs.
Hugo.....	3rd avenue.....	4th ave. w. line.....	Bituminous rock pavement on concrete and granite curbs, 8 inch, 15 inch-21 inch, and 24 inch ironstone pipe sewers with Y branches with catchbasins with culverts.
Hugo.....	1st avenue.....	2nd avenue.....	Bituminous rock pavement on concrete, granite curbs, and 15 inch ironstone pipe sewer with Y branches.
Hugo.....	2nd avenue.....	3rd avenue.....	Bituminous rock pavement on concrete, granite curbs, and 15 inch ironstone pipe sewer with Y branches.
I street.....	4th avenue.....	5th avenue.....	Bituminous rock pavement on concrete and granite curbs.
I street.....	1st avenue.....	3rd avenue w. line.....	Bituminous rock pavement on concrete, granite curbs, 8 inch, 12 inch and 15 inch ironstone pipe sewers with Y branches, manholes and culverts.
I street.....	3rd avenue.....	4th avenue w. line.....	Bituminous rock pavement, granite curbs, 8 inch, 15 inch and 18 inch ironstone pipe sewer with Y branches, catchbasins and culverts.
I street.....	17th avenue.....	18th avenue.....	8 inch ironstone pipe sewer with Y branches and manhole.
I street.....	9th avenue.....	10th avenue.....	Bituminous rock pavement on concrete and granite curbs.
I street.....	10th avenue.....	11th avenue.....	Bituminous rock pavement on concrete and granite curbs.
I street.....	49th ave. e. line.....	Great Highway.....	Grading, redwood curbs, macadam on roadway and sidewalks.
J street.....	48th avenue.....	49th avenue.....	Grading, redwood curbs, macadam roadway and sidewalks.
J street.....	47th avenue.....	48th avenue.....	Redwood curbs, macadam roadway and sidewalks.
Jackson.....	Cherry.....	1st avenue.....	Bituminous rock pavement on concrete and granite curbs.
Jersey.....	Diamond.....	Diamond.....	Bituminous rock pavement on concrete and granite curbs.
Jones.....	Broadway.....	Vallejo.....	8 inch ironstone pipe sewer with Y branches and manhole.
Kearny.....	Broadway.....	Vallejo.....	Cobble pavement, granite curbs and basalt block gutters.
Laguna.....	Pacific avenue.....	Union.....	Bituminous rock pavement on concrete.
Laguna.....	Filbert.....	Washington.....	Bituminous rock pavement on concrete with 14 feet basalt block strip and granite curbs.
Laguna.....	Hermann.....	Waller.....	Bituminous rock pavement on concrete with 14 feet basalt block strip.
Laguna.....	Waller.....	.....	Bituminous rock pavement on concrete, granite curbs, 15 inch ironstone pipe sewer with Y branches and manhole.
Lake.....	Greenwich.....	.....	Bituminous rock pavement on concrete.
Lake.....	Filbert.....	.....	Bituminous rock pavement on concrete and granite curbs.
LeRoy place.....	2nd avenue.....	.....	Bituminous rock pavement on concrete, granite curbs and catchbasins.
Lisbon.....	Sacramento.....	137 feet 6 inches s.....	Bituminous rock pavement on concrete, granite curbs and catchbasins.
Lynch.....	Brazil avenue.....	China avenue.....	8 inch ironstone pipe sewer with Y branches and manholes.
Lyon.....	Hyde.....	Leavenworth.....	Bituminous rock pavement on concrete and granite curbs.
Maple.....	Golden Gate ave.....	McAllister.....	Bituminous rock pavement on concrete with 14 feet basalt block strip.
Maple.....	Clay.....	Washington.....	Bituminous rock pavement on concrete and granite curbs.
Mason.....	Washington.....	North Point.....	Bituminous rock pavement on concrete and granite curbs, relaid.
Mason.....	Beach.....	.....	Bituminous rock pavement on concrete, granite curbs and basalt block gutters

(c) PRIVATE CONTRACTS PAID FOR BY PROPERTY OWNERS—Continued.

Street.	From or Crossing.	To	Description of Work.
Minnesota	18th street	Mariposa	Bituminous rock pavement on concrete and granite curbs.
Montgomery	Chestnut	Francisco	Basalt block pavement on sand, granite curbs, basalt block gutters and catchbasins with culverts.
Noe	23rd street	24th street	Bituminous rock pavement on concrete, same with 14 feet basalt block strip and granite curbs.
Pacific avenue	Laguna	Octavia	Bituminous rock pavement on concrete.
Pacific avenue	Gough e. line	Octavia w. line	Bituminous rock pavement on concrete and granite curbs.
Parnassus avenue	1st avenue	3rd avenue	Grading roadway, granite curbs, rock gutters and catchbasins.
Parnassus avenue	Clayton	Cole	8 inch ironstone pipe sewer with Y branches, manholes and lampholes.
Pierce	Green	Vallejo	Bituminous rock pavement on concrete with 14 feet basalt block strip, granite curbs relaid.
Pierce	Pilbert	Union	Bituminous rock pavement on concrete and granite curbs.
Polk	Pilbert	Greenwich	Bituminous rock pavement on concrete and granite curbs.
San Bruno ave	Army	25th street	Redwood curbs, macadam roadway and rock gutters.
San Bruno ave	25th street	25th street	Bituminous rock pavement on concrete and granite curbs relaid.
Sanchez	23rd street	24th street	Bituminous rock pavement on concrete, same with 14 feet basalt block strip and granite curbs.
Sanchez	Elizabeth	Elizabeth	Bituminous rock pavement on concrete and granite curbs relaid.
Sanchez	Jersey	25th street	Bituminous rock pavement on concrete and granite curbs.
Sanchez	Army	26th street	Bituminous rock pavement on concrete and granite curbs.
Sanchez	Jersey	24th street	Bituminous rock pavement on concrete with 14 feet basalt block strip and granite curbs.
Shrader	Grove	Hayes	12 inch ironstone pipe sewer with Y branches and manholes.
Shrader	Fulton	Grove	8 inch ironstone pipe sewer with Y branches and manholes.
Shrader	Carl	Parnassus avenue	Bituminous rock pavement on concrete and granite curbs.
Scott	Pilbert	Greenwich	21 inch ironstone pipe sewer with Y branches and manholes.
Scott	Fulton	McAllister	Bituminous rock pavement on concrete with 14 feet basalt block strip and granite curbs.
Second avenue	Hugo	I street	Bituminous rock pavement on concrete, granite curbs and 8 inch ironstone pipe sewer with Y branches.
Second avenue	Lake	Tibbitts Tract	15 inch ironstone pipe sewer with manhole.
Second avenue	H street	Hugo, s. line	Bituminous rock pavement on concrete, granite curbs, 8 inch and 15 inch ironstone pipe sewer with Y branches, manholes and catchbasins with culvert.
Second avenue	California	Lake	Bituminous rock pavement on concrete and granite curbs.
Second avenue	I street	Parnassus	8 inch ironstone pipe sewer with Y branches and manhole.
Seventeenth	San Bruno avenue	Vermont	8 inch ironstone pipe sewer with Y branches and manhole.
Seventeenth	San Bruno avenue	Utah	8 inch ironstone pipe sewer with Y branches and manhole.
Sixth avenue	Clement	Pt. Lobos avenue	Bituminous rock pavement on concrete, granite curbs.
Sixth avenue	California	Lake	Bituminous rock pavement on concrete and granite curbs.
South Broderick	14th street	Tilden	8 inch ironstone pipe sewer with Y branches, manholes and lamphole.
Stevenson	Clinton Park	14th street	Bituminous rock pavement on concrete and granite curbs.
Stevenson	10th street	Easterly terminus	Bituminous rock pavement on concrete, granite curbs, 8 inch ironstone pipe sewer with Y branches and manhole.

Third avenue	Hugo	I street	Bituminous rock pavement on concrete, granite curbs, 8 inch ironstone pipe sewer with Y branches and manhole.
Third avenue	H street	Hugo	Bituminous rock pavement on concrete and granite curbs.
Third avenue	California	Lake	Bituminous rock pavement on concrete and granite curbs.
Turk	Baker, e. line	Lyon	Grading roadway.
Turk	Central avenue, e.	Mason avenue	8 inch and 16 inch ironstone pipe sewer with Y branches, manholes, catch-basins with culverts.
Twenty-fifth ave	Clement street	Pt. Lobos avenue	Redwood curbs and macadam roadway and sidewalks.
Twenty-fifth street	San Bruno avenue	Vermont street	Bituminous rock pavement on concrete and granite curbs relaid.
Twenty-fifth street	Vermont street	Utah	Bituminous rock pavement on concrete and granite curbs.
Twenty-fifth street	San Bruno avenue	Treat avenue	Bituminous rock pavement on concrete and granite curbs.
Twenty-fifth street	Folsom		Bituminous rock pavement on concrete and granite curbs.
Twenty-fifth street	Garfield and Lucky	Harrison	Bituminous rock pavement on concrete and granite curbs.
Twenty-fifth street	Florida	Florida	Bituminous rock pavement on concrete and granite curbs.
Twenty-fifth street	Bryant	York	Bituminous rock pavement on concrete and granite curbs.
Twenty-fourth street			Bituminous rock pavement on concrete and granite curbs.
S'ly half	San Bruno avenue	Utah	Bituminous rock pavement on concrete.
Twenty-fourth st.	San Bruno avenue	Vermont	Bituminous rock pavement on concrete and granite curbs.
Twenty-second st.	Minnesota	Tennessee	Bituminous rock pavement on concrete and granite curbs relaid.
Twenty-seventh ave	Lake street	West Clay street	Redwood curbs and macadam roadway.
Twenty-seventh ave	Clement	California	Grading roadway.
Twenty-seventh ave	Guerrero	San Jose avenue	Bituminous rock pavement on concrete and granite curbs.
Twenty-sixth ave.	Lake	West Clay	Redwood curbs and macadam roadway.
Twenty-sixth ave.	Dolores	Guerrero	Bituminous rock pavement on concrete with 14 feet basalt block strip and granite curbs.
Twenty-third street	Hoffman avenue	100 feet westerly	Grading roadway.
N'yly half	Noe	Sanchez	Bituminous rock pavement on concrete and granite curbs.
Twenty-third street	Chattanooga	Dolores	Bituminous rock pavement on concrete with 14 feet basalt block strip and granite curbs.
Twenty-third street	Castro	Noe	Bituminous rock pavement on concrete with 14 feet basalt block strip and granite curbs.
Twenty-third street	Church	Sanchez	Bituminous rock pavement on concrete and granite curbs.
Vallejo	Pierce	Steiner	Bituminous rock pavement on concrete and granite curbs.
Vallejo	Broderick	Devisadero	Basalt block pavement on sand, granite curbs and basalt block gutters.
Vallejo	Baker	Broderick	Bituminous rock pavement on concrete and granite curbs.
Vermont	Vallejo	25th street	Bituminous rock pavement on concrete and granite curbs.
Waller, s. side	Broderick e.	Buena Vista	Bituminous rock pavement on concrete and granite curbs.
Waller	Cole	Shrader	Cobble pavement relaid, granite curbs relaid and basalt block gutters.
Washington	Waller	1st avenue	Bituminous rock pavement on concrete and granite curbs.
Washington	Cherry	Maple	Bituminous rock pavement on concrete and granite curbs.
West Clay	Washington	27th avenue	Bituminous rock pavement on concrete and granite curbs.
Wetmore place	Clay	Washington	Redwood curbs, macadam roadway and sidewalks.
Willard	Fulton	McAllister	Basalt block pavement on sand, granite curbs, basalt block gutters and manhole.
			Bituminous rock pavement on concrete with 14 feet basalt block strip and granite curbs.

The total mileage of streets paved in the City and County, and the increase in same during the past fiscal year is shown by the following:

TABULATED STATEMENT GIVING MILEAGE OF STREETS PAVED IN SAN FRANCISCO ON JUNE 30, 1905, AND THE INCREASE IN SAME DURING THE PAST FISCAL YEAR.

Character of Pavement.	Constructed Prior to June 30, 1904		Constructed In Year 1904-05		Total Mileage June 30, 1905	
	Miles.	Feet.	Miles.	Feet.	Miles.	Feet.
Wooden Block.....		303				
Cobbles.....	13	693			12	4,225
Bituminous rock on concrete	108	1,077	8	1,416	116	2,493
Bituminous rock on cobbles or basalt.....	1	921		1,218	1	2,139
Bituminous rock on concrete with basalt block strip.....	2	3,026	1	2,726	4	472
Basalt blocks on sand.....	91	3,978		2,285	92	983
Basalt blocks on concrete...	1	3,756		275	1	4,031
Asphalt on concrete.....		5,250		865	1	835
Asphalt on cobbles or basalt.....		3,865		805		4,670
Total.....	220	1,749	10	4,310	230	4,008

The total mileage of sewers laid in the City and County, and the increase in same during the past fiscal year, is shown by the following:

TABULATED STATEMENT GIVING MILEAGE OF SEWERS LAID IN SAN FRANCISCO ON JUNE 30, 1905, AND INCREASE IN SAME DURING PAST FISCAL YEAR.

Character of Sewers.	Constructed Prior to June 30, 1905		Constructed In Year 1904-1905.		Total Mileage June 30, 1905.	
	Miles.	Feet.	Miles.	Feet.	Miles.	Feet.
Brick.....	111	2,508		303	111	2,811
Brick and concrete.....		3,503				3,503
Ironstone pipe.....	187	5,270	5	768	193	758
Cement pipe.....	18	4,679			18	4,679
Wooden box.....	4	3,279			4	3,279
Total.....	323	3,399	5	1,071	328	4,470

TABLE 1.
LONG-TIME TESTS ON CEMENT—TENSILE STRENGTH IN POUNDS, PER SQUARE INCH.

The cements tested were uniformly good; only one fell below the standard in respect to tensile strength. The following table of long-time tests on certain brands of cement, including the two local brands of Portland cement, is brought up to date.

BRAND	No. of Sample.	NEAT.						1 TO 3 STANDARD SAND.						MESH COMPOSITION PASSING SCREEN.		WHEN SAMPLE TAKEN.				
		AGE IN DAYS.						AGE IN DAYS.						No.	No.	Yr.	Mo.	Dy.		
		1	7	28	56	91	182	364	7	28	56	91	182	364	2yr.	200	100	50		
Alsen.....	5,001	338	679	696	731	748	754	797	336	409	450	496	498	494	83	0 97	2 100.	1902	Jan.	4
Golden Gate.....	5,034	179	700	807	833	884	990	1,027	320	429	431	450	414	395	83	8 98	0 100.	1902	Sept.	19
Golden Gate.....	5,065	184	712	838	911	891	940	1,004	125	265	391	414	435	441	72	0 94	0 100.	1903	Jan.	31
Golden Gate.....	5,071	201	666	806	767	662	.....	.....	196	434	454	438	451	474	77	0 95	0 100.	1903	April.	30
Scales (P. R.).....	5,057	176	681	767	823	780	858	.....	188	386	.....	480	456	418	73	0 87	4 98	1903	June	10
Scales (P. R.).....	5,059	176	681	767	823	780	858	.....	173	267	.....	.....	.....	.....	73	0 87	4 98	1903	Mar.	24
Scales (P. R.).....	5,067	228	874	1,028	1,059	990	1,027	784	133	216	465	487	.....	.....	73	0 87	0 98	1903	April.	6
Standard.....	5,066	530	874	1,028	1,059	990	1,027	784	219	297	357	404	423	437	72	0 86	4 98	1903	April.	30
Federal.....	5,072	203	384	458	558	584	583	761	212	343	411	444	439	462	83	4 98	0 100.	1903	April.	30
Heidelberg.....	5,073	630	647	669	669	669	833	.....	144	239	.....	393	*438	.....	80	0 91	8 99	1903	July.	7
									139	207	258	302	395	429	80	0 91	8 99	1903	April.	30
									248	.....	.....	455	464	435	.....	.....	.....	1903	July.	9

*In this case twelve briquettes were broken; in the other cases, only six. Tests made of cements used on current work are not included in this table.

SUPPLEMENTARY STATEMENT OF MISCELLANEOUS IMPROVEMENTS
PAID FOR BY THE CITY AND COUNTY DURING FISCAL YEAR, 1904-05.

Location.	Character of Work.	Cost.
Pest House Site.....	Grading, macadam and culverts..	\$8,893.76
Pest House.....	Installation of waterworks.....	3,157.85
Dolores street from 15th to 17th streets.....	Artificial stone coping and parking	4,528.00
Market street, intersection of Eddy and Powell streets.....	Construction of Safety Station....	986.00
Market street, from East to Second streets.....	Construction of 98 sockets for flag poles.....	40.00
Parnassus avenue between 1st avenue and 2d avenue.....	Grading of school lot.....	500.00
Third avenue, between I street and Parnassus avenue.....	Grading of Engine House Lot....	450.00
Nineteenth avenue from Ocean avenue to Trocadero road.....	2,620 linear feet of fence with two gates.....	347.50
Fourth street from Mission street to Howard street.....	Moving back ten hydrants.....	225.00
Ocean Beach, south of Cliff House.....	Prospecting for wall foundations..	36.00
Total.....		\$19,164.11

LABORATORY.

A brief review of the work done in the testing laboratory during the fiscal year is herewith given.

The kind and number of samples received may be summarized as follows:

Asphalt and Asphaltic cement.....	317
Asphaltic Flux.....	13
Asphaltic Wearing Surface.....	19
Asphaltic Binder.....	30
Bituminous Rock.....	488
Stone Dust.....	4
Sand for Asphaltic Wearing Surface.....	13
Rock.....	4
Portland Cement.....	75
Gravel.....	6
Brick.....	15
Sand for Mortar.....	2
Oils—Illuminating.....	10
Oils—Lubricating.....	30
Turpentine.....	4
Total.....	1,030

Table 3.

Cement tested for use in the construction of the sewer on Mission street beyond Onondaga avenue.

TENSILE STRENGTH IN POUNDS PER SQUARE INCH OF 7 DAY BRIQUETTES, OF 1 PART CEMENT TO 3 PARTS STANDARD SAND (AVERAGE OF 6 BRIQUETTES).

"Dragon" Brand, Lot of 1,100 bbls.				"Scales" Brand, Lot of 400 bbls.	
No. of Sample.		No. of Sample.		No. of Sample.	
5147	325	5153	316	5158	284
5148	311	5154	304	5159	256
5149	319	5155	314	5160	299
5150	314	5156	298	5161	281
5151	301	5157	313		
5152	321				
Average	312			Average	280

We have continued our tests of the two local brands of Portland cement, the "Golden Gate" and the "Standard," in order to get some idea of the uniformity of the product from each factory. The samples were taken at the respective warehouses and from fresh shipments of material. The results are shown in the following table.

Table 4.

TENSILE STRENGTH IN LBS. PER SQUARE INCH (AVERAGE OF 6 BRIQUETTES).

Neat.				1 to 3 Standard Sand				When Taken.		
7 d.				7 d.	28 d.	56 d.	91 d.	Yr.	Mo.	Day
"Golden Gate"	28 d	56 d.	91 d.							
5106	757	925	956	235	365	440	1904	Dec.		3
5129	825	929	1037	230	314	372	1905	Feb.		5
5141	827	934		190	347		1905	Mar.		20
5143	940	975	1016	208	312	320	1905	Apr.		17
Aver.	837	941	1037	216	335	372	380			
"Standard"										
5105	615	889	881	272	442	519	1904	Dec.		2
5130	787	914	934	285	336	423	1905	Feb.		19
5142	648	793		277	373		1905	Mar.		20
Aver.	683	868	934	278	384	423	519			

The enforcement of the new specifications for asphalt wearing surface, mentioned on page 35 of the Annual Report for the year 1903-04, has resulted in considerable improvement in the composition of the paving mixture. Since those specifications went into effect, each asphalt pavement laid has been an improvement over the preceding.

There still remains the same need for a radical revision of our bituminous rock specifications in accordance with the suggestion laid down in the Annual Report for the year 1903-04, pages 37 and 38. A scientific regulation of the composition of the mineral aggregate and of the quality of the bituminous matter is just as important in the case of bituminous rock pavement as in the case of asphalt pavements. The recommendation that our present specifications for bituminous rock be thoroughly revised is the most important one suggested by the work of the testing laboratory.

The samples of the oils and turpentine tested were analyzed at the request of the Board of Supervisors, having been submitted to them in connection with bids for furnishing supplies to the city for the year 1905-06.

The most important reports of those rendered during the year are herewith appended.

Respectfully submitted,

THOS. P. WOODWARD,

City Engineer.

REPORT OF CITY ENGINEER

REPORT ON STREET CLEANING IN LOS ANGELES.

San Francisco, July 16, 1904.

TO THE HONORABLE THE BOARD OF PUBLIC WORKS
OF THE CITY AND COUNTY OF SAN FRANCISCO.

Gentlemen—In accordance with your instructions I have the honor to submit the following report upon the street cleaning in Los Angeles.

About one-half of the street sweeping is done under public contract, the contractors using the ordinary rotary broom machines at night.

Upon the asphalt streets in the busy retail districts the city employs all-day block men with "Boss Scrapers" instead of the coarse brooms in use here, thereby preventing the raising of dust.

At night two "Furnas Suction Street Cleaners" are used. Each cleans thoroughly a strip ten feet wide on each trip, drawing up by suction all loose material upon the pavement and depositing it in a hopper from which it is emptied at the end of the route and thence removed by dump wagons. Small rotary brooms directly in front of the three by ten suction hood—which reaches to and rests upon the street—detach from the surface such material as may have adhered to it, and loosen it for the suction. The machine creates no dust whatever. I followed directly behind it and observed this especially. It leaves the surface of the asphalt pavement absolutely clean, removing completely all the fine dust which the best of hand sweeping either leaves behind or scatters in the air. It works equally well on the basalt gutters and on the railroad tracks and adjoining blocks, removing all loose material from the interstices. It is drawn by three horses and travels at the rate of about three miles an hour or about the same speed as the large rotary broom machines.

The "Furnas Suction Street Cleaner" is made by Furnas Bros., of Indianapolis. Its price is \$1,600 F. O. B. in Indianapolis. The freight to San Francisco is \$300.

Each machine costs Los Angeles \$11 a night to run, the items of expense being as follows:

Driver and three horses.....	\$5.00
Engineer.....	3.50
Cleaner and starter (one-half time).....	1.00
Fuel—Distillate Oil, 20 gallons at 5c.....	1.00
Lubricating Oil.....	.25
Repairs.....	.25
	<hr/>
	\$11.00

On account of the greater cost of labor in San Francisco this amount would be increased here by \$3 or \$4, or, say, to \$15.

The present cost of running three rotary broom sweepers nightly, each covering no more ground than a Furnas machine, is as follows:

Three machines with horses and drivers at nightly rental of \$12..	\$36.00
One sprinkling cart to precede (exclusive of water).....	6.75
Ten street sweepers to follow.....	25.00

Total..... \$67.75

For a year of 300 nights this would amount to..... \$20,325.00

The Furnas machines not needing a sprinkler to precede them nor street sweepers to follow them, we would have the cost of operating three for 300 nights at \$15 per night each..... 13,500.00

A difference of..... 6,825.00

One dump wagon less for Furnas machine at \$6..... 1,800.00

Or a saving in one year of..... 8,625.00

As three Furnas machines at \$1,900 would cost..... 5,700.00

We would have at the end of the year the three machines on hand and a net saving over the hiring and running expenses alone of the rotary sweepers of..... \$2,925.00

I would, therefore, both on the grounds of efficiency and of economy, recommend the purchase of three Furnas Suction Street Cleaners or three of some other up-to-date machines, to replace the three rotary sweepers now in use. The rotary sweepers, however, could be used on some days when it was too wet to use the suction machines, and the expense for those days would be thus proportionately increased.

As they create no dust the Furnas machines could be used also in the day time in the less frequented streets, thus doubling their capacity.

I am under obligations to Mr. E. R. Werden, street superintendent of Los Angeles, and to Mr. C. Roy McKeon, his chief deputy, for courtesies extended. The use of the Furnas machines by Los Angeles was the result of a visit of inspection by Mr. Werden through the principal eastern cities.

Very respectfully,

(Signed) THOS. P. WOODWARD,

City Engineer.

THE SANITARY REDUCTION WORKS NUISANCE.

San Francisco, August 11, 1904.

DR. A. A. D'ANCONA, HEALTH AND HOSPITAL COMMITTEE,
BOARD OF SUPERVISORS.

Dear Sir—In accordance with your verbal request to investigate and report upon the plan proposed by the Sanitary Reduction Works to ameliorate the nuisance existing in the present manner of conducting their crematory, I have the honor to submit the following:

A so-called "scrubbing" apparatus has been temporarily installed in one of their horizontal flumes, leading from eight of their thirty-two furnaces, by which the smoke is subjected to a copious shower bath before it reaches the chimney. This consists of 36 pieces of one-inch pipe 14 feet long, placed side by side, and perforated every two inches by holes from three-sixteenths to one-quarter of an inch in diameter. It is fed by a pump run by a 5-horse electric motor, from a 2,500 gallon tank of salt water, the water being used over and over again, at the rate of about 10,000 gallons an hour. The water falls in a strong shower from six to eight feet to the bottom of the flue and all the smoke is compelled to pass through it. Clean water is added continually to compensate for the evaporation, about 2,500 gallons being added in twelve hours, at the end of which time the water, having absorbed gases to the point of saturation and having become too muddy for use, is turned into the sewer and a new supply used. In practice it may be found necessary to discard the old water sooner.

The mechanical action of this shower upon the smoke is to cause the precipitation of practically all of the suspended matters and unburned paper, which are afterwards gathered up from the bottom of the flue. It would, however, be advantageous to increase the length and number of the pipes and so increase the amount of water through which the smoke must pass. The results of two experiments show that, were this plan applied to the entire plant, the large quantity of eight to twelve tons of ashes and other precipitated matter would be gathered in a day of twenty-four hours and prevented from being carried away in the smoke and finally spread over the surrounding country. If this were the only benefit derived, it would be a desirable improvement, but it also absorbs more or less of the gases and noxious fumes, as has been reported upon by the City Chemist. Of course, actual results can only be determined definitely by actual working. It certainly would remedy to a great extent the defects arising from the faulty combustion and low temperature, only 660 degrees of heat being attained against 2,000 in the more modern plants.

The officers of the company questioned the possibility of the fall of the water affecting the draught and lowering the temperature of the furnaces. While the friction of the water would have some slight effect upon the draught, it would be almost imperceptible—the 265 feet of chimney affords draught in abundance. Nor do I think the temperature of the furnaces could be affected.

As I said in my report on this subject of April 20, 1904, the present nuisance of the crematory can and should be remedied and this would appear to be one of the steps towards the desired end.

Very respectfully,

(Signed) THOS. P. WOODWARD,

Through the Board of Public Works.

City Engineer.

RESERVOIR SITE OF THE AUXILIARY HIGH PRESSURE FIRE PROTECTION SYSTEM.

San Francisco, November 7, 1904.

TO THE HONORABLE THE BOARD OF PUBLIC WORKS
OF THE CITY AND COUNTY OF SAN FRANCISCO.

Gentlemen—In the matter of the Auxiliary High Pressure Fire Protection System it has been decided, after careful investigation, to recommend that the 20,000,000 gallon reservoir, required under your instructions, be located at an elevation of 755 feet on the natural saddle about one thousand feet northwesterly from the northernmost of the Twin Peaks. Preliminary to the construction of the reservoir will come the acquirement of the land required for the reservoir itself, for the roadway approaching it and for the ground needed for the depositing of the excavated material. It has been estimated that this will amount to 18 acres. This is the central portion of a tract of land assessed to the "Market and Stanyan Streets and Golden Gate Park Land Improvement Co." which it divides into three parts, the one to the east containing about 20 acres and the one to the west about 9 acres. The whole tract is assessed as containing 54 acres but a measurement of the map shows only 47 acres. The assessed valuation is \$22,500.

It has been suggested that as long as the best portion of the tract will be taken under condemnation proceedings for the purposes of the reservoir, the entire tract should be acquired at comparatively little additional expense and could be made available in the general scheme for beautifying the city.

Very respectfully,

(Signed) THOS. P. WOODWARD,

City Engineer.

CURVED NORTHERLY BOUNDARY OF THE GREAT HIGHWAY.

San Francisco, November 9, 1904.

MR. JOHN McLAREN, SUPERINTENDENT PARKS AND SQUARES,
GOLDEN GATE PARK.

Dear Sir—After a thorough search of every available authority I take pleasure in forwarding you the following statement of the origin of the curved northerly boundary of the Great Highway.

Ordinance No. 800 of the Board of Supervisors, approved January 14, 1868, was passed for the purpose of devising a plan for dividing the outside lands into blocks and making a map of the same. An Outside Land Commission, composed of five members, was appointed and the scheme was devised and the map made under its supervision.

Section 9 of the Ordinance provides that "all that portion of land which lies south of a line drawn south 81° 35' East, Magnetic, through Seal Rock and west of a line easterly not less than 200 feet from ordinary high water mark, is hereby reserved and set apart for public use as a Public Highway."

According to this provision the northerly boundary would be a straight line which would meet the easterly boundary, another straight line, at an obtuse angle.

However, instead of following the wording of Section 9 exactly the Outside Land Commissioners chose to make the northerly boundary a curved line and it was so shown on the map constructed by them. This map was afterwards approved by the Board of Supervisors by Resolution No. 8,622, July 13, 1868, and by Ordinance No. 823, July 24, 1868, and was made the official map of the Outside Lands.

This curved line is marked by monuments upon the ground and has been shown on every official map of the city for the last thirty-six years. The straight line has never appeared upon any official map.

Very respectfully,

(Signed) THOS. P. WOODWARD,

City Engineer.

APPRAISEMENT OF THE PROPERTIES OF THE SPRING VALLEY
WATER COMPANY.

San Francisco, Jan. 26, 1905.

TO THE HONORABLE THE BOARD OF PUBLIC WORKS
OF THE CITY AND COUNTY OF SAN FRANCISCO.

Gentlemen—In pursuance of your instruction, as directed by Resolution No. 5358 of the Board of Supervisors, to prepare and file "an appraisement of the properties of the Spring Valley Water Company, actually used in furnishing the City and County of San Francisco, and the inhabitants thereof, with a pure and wholesome supply of water." I have the honor to submit the following appraisement. It agrees in the main with those submitted in preceding years, the cost of the betterments of the past year being added to the original valuations. It does not include any properties which are not at present in use.

APPRAISEMENT.

Pilarcitos system:

Dam, pipe line, etc., as itemized in Report dated Jan. 31, 1902.....	\$869,410	
Lands in reservoir site—105 acres at \$1,250 per acre..	131,250	
Lands in watershed—3,800 acres at \$60 per acre.....	228,000	\$1,228,660

San Andreas system:

Dam, pipe line, etc., as itemized in Report dated Jan. 31, 1902 (\$1,152,077), with betterments made in 1902 and 1903 added at about cost.....	\$1,164,665	
Locks Creek Aqueduct, not including works above the stone dam, which are not at present in use.....	329,861	
Lands in reservoir site—475 acres at \$1,250 per acre.....	593,750	
Lands in watershed, including about 2,150 acres tributary to Locks Creek Aqueduct, 4,310 acres at \$60 per acre.	258,600	
Pilarcitos pumps at San Andreas screen-house, complete with stand-pipe and 16-inch discharge to the Pilarcitos pipe line.....	30,167	
Ocean View pump, complete, with suction from San Andreas main pressure tank, and discharge to the Lake Merced force main.....	15,658	
Betterments for 1904 at cost as given by Spring Valley Water Company:		
Ashton Tract, 152.43 acres.....	15,243	\$2,407,944

Crystal Springs system:

Dam of concrete, pipe line, etc., as itemized in report dated January 31, 1902 (\$2,836,082), with betterments made in 1902 and 1903 added.....	2,837,282	
Lands in reservoir site below high water line—1,300 acres at \$1,250 per acre.....	1,625,000	
Lands in reservoir site above present high water line—430 acres at \$625 per acre.....	268,750	
Lands in watershed—6,973 acres at \$60 per acre.....	418,380	
Crystal Springs pumping station complete with 24-inch suction, 3 lines of 16-inch discharge pipes, 16-inch stand pipe, buildings, stables, outhouses, and 19,690 lineal feet of flume.....	130,756	
Betterments for 1904 at cost as given by Spring Valley Water Company:		
Crystal Springs Flume	741	
Total for Crystal Springs system.....		\$5,280,909

Millbrae Pumping Plant complete including stand pipe and connections, reservoir, suction and force pipes, flume, railroad track, buildings, etc., as appraised in 1901 with improvements 1901 to January 1, 1904, added...	271,580	
Lands at pumping station—68.10 acres at cost.....	25,000	\$296,580
Water rights on Peninsula reservoir system—18 million gallons per day at \$40,000 per million gallons per day.....		720,000
Betterments for 1904, at cost as given by Spring Valley Water Company:		
Right of way at Colma.....		23,233
Total Peninsula system.....		\$9,957,326

Alameda Creek system:

Niles dam about 2½ miles above Niles, stone aqueduct 2,700 feet long, stone screen-tank, wooden screen and settling tank; flume 3,131 feet long, iron bridge over Alameda creek at Niles 400 feet long; wrought iron pipe 36-inch diameter 5,859 feet long.....	108,000	
Alameda Creek main pipe line, 36-inch diameter, 138,029 feet long; 36-inch brass faced gate at Burlingame, including boxing and trestles.....	1,184,078	
Betterments for 1904 at cost as given by Spring Valley Water Company:		
New Almaden pipe line.....	10,881	1,194,959
Buildings—2 keeper's houses.....		2,000
For contingencies, engineering, etc., on above items, 10 per cent.....		130,496
New 54-inch wrought iron pipe and connections, Burlingame to Millbrae, at cost, about.....		332,520
Submarine pipes, 2 lines of 16-inch across slough and across bay at Dumbarton Point at cost, about.....		120,000
Two lines of 22-inch, paralleling the 16-inch, at cost about Belmont pumping station, including 3 Corliss pumping engines, Babcock & Wilcox boilers, addition to standard pipe, etc.....		290,400
Appraisalment of 1901 with betterments made in 1901, 1902 and 1903 added, at cost, about.....		284,890
Lands at Belmont pumping station 45 acres.....		8,000
Betterments for 1904 as given by the Spring Valley Water Company:		
Belmont boilers.....	7,074	
Belmont pumps.....	1,762	
One-half of Newhall tract.....	8,247	
		17,083
Works on Laguna Creek property near Pleasanton (see itemized statement in Report of Jan. 26, 1904).....		88,719
Sunol filter beds and Sunol aqueduct to and including screen-house at Niles (see itemized statement in Report of Jan. 26, 1904).....	727,665	
Betterments for 1904 at cost as given by the Spring Valley Water Company:		
Sunol aqueduct and filter beds.....	3,470	731,135

Lands and rights acquired by Suburban Water Company and transferred to Spring Valley Water Company in 1902. Total area 18,161 acres, at cost.....		927,588	
Lands in Calaveras Valley and adjacent thereto, acquired prior to Jan. 1, 1902, estimated 2,746 acres more or less (not including the original Calaveras purchase) at cost.....		167,950	
Water rights and land purchases along Alameda Creek to secure the right to water, not including the \$1,000,000 paid for the Vallejo mill and Calaveras properties in, 1875, at cost.....		309,985	
Calaveras purchase: This includes 2,150 acres of land and water rights, notably the Vallejo Mill property at Niles.....		315,000	
Rights-of-Way, Alameda Creek system, at cost.....		43,417	
Betterments for 1904 at cost as given by Spring Valley Water Company:			
Alameda real estate.....	641		
Ravenswood Improvements.....	15,076	15,717	
		<hr/>	
Total Alameda Creek System.....			\$5,087,857
City Distributing system:			
Lake Honda complete, including keepers' houses, stable sewers, etc., (exclusive of land value).....	\$ 338,184		
University Mound, Reservoir complete including keepers' house, stable, etc., (exclusive of land value).....	140,401		
College Hill Reservoir complete including keepers' house stable, etc., (exclusive of land value).....	55,400		
Clay street tank complete including grading, concrete retaining wall, concrete stairs, etc., (exclusive of land value).....	10,022		
Upper Russian Hill, of Francisco street, reservoir complete, including brick-lined tunnel 150 feet long (exclusive of land value).....	67,759		
Clarendon Heights tank complete including grading, (exclusive of land value).....	12,224		
Potrero Heights, Reservoir complete including keepers' house, etc., (exclusive of land value).....	16,216		
	<hr/>		
Add 10 per cent for engineering and contingencies.....	640,206		
Presidio Heights tank (1902-3) steel, 60-feet in diameter, 35 feet high, exclusive of land value, at cost, about.....	64,020		
	<hr/>		\$704,226
Betterment for 1904 at cost as given by Spring Valley Water Company:			
Presidio Heights tank.....	2,900		
Carville tank.....	2,216		
Lombard street reservoirs.....	5,215		
10 per cent for engineering and contingencies.....	1,033		
	<hr/>		11,364
Distributing mains and pipes, lengths in use as given by Spring Valley Water Company:			
Wrought iron—			
13-inch 850 feet.....	\$ 1,530		
22-inch 25,841 feet.....	113,700		
30-inch 12,669 feet.....	91,217		
33-inch 2,510 feet.....	20,080		
37½-inch 12,254 feet.....	112,737		
44-inch 7,213 feet.....	63,474		
Cast-iron (Specials included)			
3-inch 130,969 feet.....	89,059		
4-inch 362,024 feet.....	279,272		
6-inch 571,603 feet.....	643,649		
8-inch 665,601 feet.....	989,708		
10-inch 8,489 feet.....	15,917		
12-inch 255,088 feet.....	594,507		
16-inch 125,237 feet.....	410,937		
20-inch 21,840 feet.....	100,551		
22-inch 19,183 feet.....	102,245		

24-inch	34,844 feet.....	214,995	
30-inch	4,494 feet.....	38,392	
Setting specials.....		18,000	
		<u>\$3,917,970</u>	
Add 10 per cent for engineering and contingencies.....		391,797	\$4,309,767
Special Structures on City Distributing system:			
Two Bernal Heights tunnels, total length, 1,344 feet at \$30..		40,320	
Support of pipes in Harrison street over Mission creek swamp, special pipe connection work, etc.....		36,000	
Islais Creek pipe trestles and extra work pipe laying.....		9,097	
Tunnel 508 feet long on 7th avenue, 5 ft. 6 in. clear carrying 30-inch pipe and 580 feet of sewer tunnel with 650 feet of 24-inch cast-iron pipe concreted in, all below "K" and "L" streets.....		24,320	
Gates on City Distributing system, not including setting....		68,477	
Meters on service pipes, etc., 14,643 (Spring Valley Water Works Inventory of Jan. 1, 1905).....		225,282	
Black Point Pumping Station complete including storage tunnel, suction well, wharf, etc., (exclusive of land values).....		168,000	
Clarendon Heights pumping plant complete (exclusive of land value).....		54,800	
		<u>626,296</u>	
Add ten per cent for engineering and contingent expenses....		62,629	688,925
City Reservoir sites and lands in actual use, including Black Point pump tract, Clarendon Heights pump tract, pipe yards with building and Islais Creek right-of-way.....			575,300
Betterments for 1904 at cost as given by Spring Valley Water Company:			
Thirty-six lots in Reis tract.....		9,850	
Two lots on Reed street.....		3,900	
			<u>13,750</u>
The following items for 1904 as given by Spring Valley Water Company are chargeable but are not segregated so as to be placed to proper account.....			
Lumber.....		2,849	
Bricks.....		2,545	
Hardware.....		1,715	
Freight.....		8,786	
Paving and grading.....		5,132	
Trestle work.....		2,363	
Sundries.....		1,500	
Engineering \$26,730, less amount already accounted for \$14,061.....		12,669	
			<u>\$37,559</u>
Total City Distributing system.....			\$6,366,391
Office lot and building.....			750,000
Lake Merced properties:			
Lands, including contiguous lands in San Mateo Co., the Ocean View pump tract, etc., 2,638 acres.....		2,030,000	
Lake Merced drainage system, dam between lakes, dam at lake outlet, outlet pipe, South Lake drainage, including tunnel to Ocean, dams, etc., (See Report Jan. 31, 1902), \$225,347, together with North Lake drainage works, dam, concrete inlet, canal, 30-inch wrought-iron pipe, and trestle reinforcement, etc., \$17,542, with 10 per cent for engineering and contingencies, \$24,288.....		267,177	
Lake Merced pumping plant complete including suction from lake, wharves, booms, suction from San Andreas pipe, discharge to Pilarcitos pipe treating plant at Daly's Hill railroad coal bunkers, etc., including 10 per cent for engineering and contingencies.....			295,416
Betterments for 1904 at cost as given by Spring Valley Water Company:			
Gum Forest.....		40,980	
Lake Merced drainage.....		1,180	
Lake Merced Ranch.....		114	42,274
			<u>\$2,634,867</u>
Total Lake Merced properties.....			\$2,634,867

Miscellaneous properties:

Telephone lines, rights-of-way for sewers, etc.....	15,000	
Tools, horses, wagons, etc, hay and grain, cast-iron pipe, cast-iron pipe fittings, wrought-iron pipe, gates, leads, cement, asphalt, etc.....	190,000	205,000

RECAPITULATION.

Peninsula system:

Pilarcitos system.....	\$1,228,660	
San Andreas system including Locks Creek Aqueduct and Ocean View pumps.....	2,407,944	
Crystal Springs System.....	5,280,909	
Millbrae Pumping Station.....	296,580	
Water rights.....	720,000	
Colma right-of-way.....	23,233	
Total Peninsular system.....		\$9,957,326

Alameda Creek system:

Alameda main pipe line, Belmont pumping station works on Laguna Creek property, Sunol Filter Beds, Sunol Aqueduct lands, water rights, etc.....		5,087,857
City Distributing System.....		6,366,391
Office lot and building.....		750,000
Lake Merced Lands, pumping plant, drainage work, etc.....		2,634,867
Miscellaneous properties, material on hand, etc.....		205,000
Total.....		25,001,441

Very respectfully

(Signed) THOS. P. WOODWARD,
City Engineer.LOCATION OF NORTHERLY LINE OF CLAY STREET EASTERLY FROM
SANSOME STREET.

San Francisco, March 14, 1905.

City and County Attorney, San Francisco, Cal.

Dear Sir:—Pursuant to your request a statement regarding the location of the northerly line of Clay street easterly from Sansome street has been prepared and is submitted herewith.

Very respectfully,

(Signed) THOS. P. WOODWARD,
City Engineer.

On official maps of the City street widths east of Larkin street and north of Market street are not shown except as given on the Monument Map of the Board of Engineers, dated 1866, and on this no widths are given for streets north of Market street and east of Montgomery street, except for Sansome, Battery, Front and Davis streets.

The blocks in question and adjacent blocks were known as "Beach and Water Lots." On the original plat the frontage on the east side of Sansome street between Clay and Washington streets was divided into six lots, which, taken at 45 feet 10 inches, the regular water lot frontage, would give 275 feet of frontage on the block, corresponding to the 100 vara (275) foot frontage of the blocks west of Montgomery street.

By the Act of Legislature April 26, 1862, and an amending Act of April 4, 1864, a Board of Engineers was appointed, who proceeded to make a re-survey of the city for the purpose, among other things, of establishing street lines and fixing monuments to tie in and perpetuate the location of same. On completion of the survey maps and Block Book were prepared showing the work done by the Board and notice was published that the maps, Block Book and Reports were open for examination by all interested property owners. Following this, said maps and Block Book were approved and made official by the Supervisors, all in accordance with the provisions of the Act of Legislature appointing the Board of Engineers.

While no street widths were given in the district north of Market street and east of Montgomery street, as above stated, the Monument Map submitted by the Board of Engineers gives a system of monument lines showing the exact distances between same and the Block Book, (on the title page of which is the following: "Block Book of that portion of the City of San Francisco bounded by Larkin, Market and Valencia streets on the west, Tracy or Fourteenth street and Mission Creek on the south, and the Bay of San Francisco on the east and north, as confirmed and legalized by the Board of Supervisors by Order No. 684 passed January 30, 1866. Note—The figures in black at the corners of the streets show the distance that should be measured from the re-survey lines to the true corners of the streets. The figures in blue show the

actual location of the points indicated from the re-survey lines,") shows monument lines corresponding to those of the Monument Map, and numerous figures in blue ink which represent the distances from the monument lines to the buildings at the various points, these being commonly known as "Monument Locations," or, more properly, "Monument Line Locations," which serve as, and really are, monuments and the Block Book also shows numerous figures in black ink commonly known as "Monument Distances," representing the distances from the monument lines to the several block lines as fixed by the Board of Engineers, and subsequently made official by the Supervisors in their approval of the maps and Block Book, by Ordinance No. 684.

The survey of the Board of Engineers was made from the base line of the original survey of the City and made with the intention of fixing a system of regular street lines conforming to the original plats. It was found, however, particularly in the portion of the City north of Market street and east of Montgomery street, that many improvements had been made which did not conform to the regular lines and in preparing the Block Book which was submitted with the report and approved by the Supervisors, figures were given for the purpose of fixing the position of the block lines with reference to the monument lines, as is explained on the title page of the Block Book so as to conform more nearly to the improvements previously made, the result being the fixing of the street lines throughout the district with numerous jogs. The general plan seems to have been to make the block lines conform to the more substantial improvements as far as was consistent with the many discrepancies found in the position of the various claim lines in the several blocks.

In many cases the monument distances given in the Block Book conform to the regular lines of the streets, which may or may not agree with the improvements, and no monument distances were entered for many of the blocks, it being so in the case in hand. Whether the numerous omissions of monument distances were due to the lack of sufficient information to enable a proper determination or to the indecision of the Engineers is uncertain. In the case in hand, however, as is shown by their maps and Block Book, they were informed as to the position of the improvements at the four corners of the block. The question may be raised as to whether, in the absence of any monument distances indicating an irregular or jogged street line, the regular lines have been fixed for the block or whether the position is to be taken that no street lines were fixed by the Engineers in such cases.

Though it is by no means a rule without exception it has been a common practice of the City and County Surveyors in the absence of any entry on the Block Book indicating an irregular monument distance, to make surveys locating the street lines at the regular distance, even though some of the monument distance would have agreed more closely with the average of the improvements.

It has also been the general practice of City and County Surveyors, when called upon to make a survey, to use the same monument distance which has been used either by himself or former City and County Surveyors in making surveys in the block, and private surveyors have usually followed the same practices. It is to be noted, in considering this matter, that the old buildings in the district east of Montgomery street had been placed with some disregard for proper distances, to which must be added an uncertain amount of later movement due to settlement of the filled basin on which the district is located, that it was frequently impossible for the Board of Engineers to fix monument distances to conform to more than a few of the buildings in each block.

In the case in hand, the block between Clay and Washington streets, and Sansome and Battery streets, all surveys made by the City and County Surveyors have been made with a regular monument distance of 24 feet 6½ inches for both Clay and Washington streets. These surveys include the following:

South side of Washington street, 97 feet west of Battery street, March 6, '82.

West side of Battery street, 68 feet 9 inches northerly from Clay street, Dec. 9, '82, and August 6, '83.

East side of Sansome street, Clay to Washington streets, July 15, '84.

East side of Sansome street, Merchant to Washington streets, Dec. 12, '84.

East side of Sansome street, Clay to Merchant streets, Jan. 17, '05.

The last survey having been made for the City Architect, when, during construction, the question of the position of the line of Clay street was brought to his attention.

These surveys indicate that the buildings formerly located on the easterly side of Sansome street between Clay and Merchant streets projected 1 foot 6 inches southerly into Clay street, and were about 10 inches southerly from the southerly line of Merchant street; also that the building on the easterly side of Sansome street between Merchant and Washington streets projects about 1 foot 2 inches southerly into Merchant street, and 1½ inches northerly into Washington street. The southerly line of Washington street, located at the regular monument distance of 24 feet 6½ inches agrees with the improvements fronting on Washington street, except in the case of the building at the southwesterly corner of Washington and Battery streets, where the building extends about 1 foot 9 inches northerly from the street line, while the old improvements at the northeasterly corner of Clay and Sansome streets extended about 1½ feet southerly into Clay street.

Clearly the surveyors have properly located the line of Clay street. To have conformed to the fronts of the buildings on the northerly side of Clay street between Sansome and Battery streets would have taken from 1 foot 6 inches to 2 feet from the width of Clay street and created a surplus in the block between Washington and Clay

streets of a like amount, and this reduction in the width of Clay street would only be prevented by moving the block between Clay and Sacramento streets southerly, a like amount, which would then result in the reduction of the width of Sacramento street.

WATER SUPPLY FROM THE SIERRA NEVADA.

San Francisco, May 22, 1905.

HON. SAMUEL BRAUNHART,

Chairman Public Utilities Committee, Board of Supervisors:

Dear Sir—There are three propositions before your Honorable Board regarding water supply of this City and County.

1. Giant Gap project.
2. South Fork of American River project.
3. Mokelumne River project.

Any one of these involves an estimated expenditure of from \$30,000,000 to \$35,000,000. In determining their relative desirability the following data are essential:

1. The verification of the data and propositions submitted by the proponents.
2. The comparison of each catchment area, its rainfall and runoff with the tributary storage capacity.
3. The areas in each drainage district now in private ownership and open to future claims.

4. The area in each district set apart as forest reserve and to remain unoccupied. Upon this data a comparison can be made of each of these sources with others.

This work involves more than a month of arduous work in the Sierra and also the necessary direction of the collection and arrangement of existing data for office study. For these purposes and for the necessary expenses, we recommend the setting apart of at least \$6,000 the next fiscal year.

The work above outlined can be greatly facilitated if a portion of the unexpended balance of the funds available during the current fiscal year can be expended in collecting and putting in available form for study and use the field data now in the Land Offices and Assessors' Offices at the County seats in which the water sheds lie. In this manner work to be done after the first of July can be promptly executed and the data collected be made promptly available in the field comparisons.

The above is submitted in accordance with your request of the 19th inst.

Very respectfully,

(Signed) MARSDEN MANSON,
LUTHER WAGONER,
THOS. P. WOODWARD.

ESTIMATE OF COST OF GEARY STREET RAILROAD.

San Francisco, May 25, 1905.

To the Honorable the Board of Public Works
of the City and County of San Francisco:

Gentlemen—Your Board having been directed by Ordinance No. 1477 of the Board of Supervisors to procure through the City Engineer and file with the Supervisors plans and estimates of cost of acquisition by original construction and completion by the City and County of a street railroad from Market street on Geary street, along Geary street to Point Lobos avenue, along Point Lobos avenue to Tenth avenue, and along Tenth avenue to Fulton street, I have the honor to submit the following report:

The total cost of the desired improvement is estimated at \$667,595, which may be segregated into the following subdivisions, as provided in the Ordinance:

Subdivision 1. The conversion of the present Geary street road into an electric road, with underground conductors of electricity, with conductor cable, lead covered, and ducts for cable, from Market street along Geary street to Point Lobos avenue, and along Point Lobos avenue to Fifth avenue, 3.335 miles.....	\$179,432
Subdivision 2. New electric road, double tracks, with underground conductors of electricity, with conductor cable, lead covered, and ducts for cables, along Point Lobos avenue from Fifth avenue to Tenth avenue, along Tenth avenue to Fulton street, .808 miles, including bituminous rock or asphalt pavement between rails and for two feet on each side thereof, and including removal of water and gas pipes, conduits and other obstructions.....	\$125,732
Subdivision 3. The necessary cars, tools and appliances required to operate said railroad from Market street along Geary street to Point Lobos avenue, and along Point Lobos avenue to Fifth avenue, excluding power.....	\$154,000
(Subdivision 3 is included in subdivision 4.)	

Subdivision 4. The necessary cars, tools and appliances required to operate said railroad from Market street along Geary street to Point Lobos avenue, along Point Lobos avenue to Tenth avenue and along Tenth avenue to Fulton street, excluding power.....	\$203,390
Subdivision 5. Storage battery required in operation of railroad, when electric power to operate is furnished.....	\$60,500
The ordinance does not require estimates upon a lot and building, but as they are necessary to the system, I have included them in the estimate and place them at \$33,000, and \$66,000, respectively, a total of.....	
	\$99,000
Total (exclusive of subdivision 3).....	\$667,595

I also submit plans on Sheets Nos. 1, 2, 3, 4, 5, 6 and 7 entitled "Plans for Geary Street Electric Railway, prepared by C. E. Grunsky, City Engineer, under direction of the Board of Public Works, as per provision of Ordinance No. 713 of the Board of Supervisors, San Francisco, Cal., June 30, 1903," which were prepared in the earlier consideration of this matter, and which it was contemplated would be followed in the preparation of this estimate.

Mr. J. H. C. Stut, who, as Consulting Mechanical Engineer, prepared several reports upon this subject for former City Engineer Grunsky, was engaged to review his work and has submitted a report, appended, which I have made the basis of my report.

Very respectfully,

(Signed) THOS. P. WOODWARD,

City Engineer.

SAN FRANCISCO, MAY 16, 1905

MR. THOMAS P. WOODWARD, CITY ENGINEER,

Of the City of San Francisco, California.

Dear Sir—Pursuant to a verbal understanding made with you April 25th, 1905, I beg leave to report herewith on the estimate of cost of the conversion of the Geary Street Cable Railroad into a Conduit Electric Railway. The estimate of cost to include an extension of this road, beginning at the intersection of Fifth avenue and Point Lobos avenue, thence along Point Lobos avenue to Tenth avenue; along Tenth avenue to Fulton street at Golden Gate Park. This extension of the system to be either a Conduit Electric system or an overhead Electric Trolley System.

I give also an estimate of cost of the underground conductors for electricity, conductor cables, lead covered, and the ducts for the cables; also, estimate of cost for bituminous rock or asphalt pavement between rails and for two (2) feet on each side thereof, and, including the removal of water and gas pipes, conduits and other obstructions; the necessary cars, tools, and appliances required to operate the system, excluding power. Also, a storage battery for such system when electric power is furnished; also, the necessary car house, including space for the battery and room for electric machinery, together with the real estate necessary for such a house.

In reference to the real estate and car house it was deemed necessary to investigate also the advisability of renting the present Geary Street Power House, situated at the corner of Geary and Buchanan streets, for the purpose of using it as the carhouse of the proposed electric road, and with this object in view I communicated with your real estate expert, Mr. L. H. Mooser, and explained to him the intended proposition. I also explained to him that the locality was not central enough for the most economical location of a power house and car house, and pointed out to him the desirability of locating it elsewhere, but having always in mind the best interests of the city.

Mr. Mooser has reported to you on this subject, and from his report you will see that he values the property of the Geary street Railroad Company at \$44,250.00 which includes both the real estate and the improvements thereon. From a verbal conversation with Mr. Mooser he expressed to me that in order to use the present power house for the purpose desired, some very extensive improvements must be made to the present building to render it available for housing all of the heavy electric cars that must be used for the new road, and with these views I fully agree. Adding at least say from \$20,000 to \$25,000 to the present valuation would make a total valuation of, at least, from \$65,000 to \$70,000 and then it would be still an old building, and not belonging to the City nor would it be centrally located for the distribution of power. Under these conditions I would strongly advise the purchase of a centrally located site for a car house, that is comparatively cheap and the erection thereon of a two-story car house, and in the estimates that follow I have so calculated.

The estimates of cost herewith presented are made for four (4) different and distinct projects which was deemed necessary in order to give you the fullest information on that subject. These four projects are:

First. The conversion of the Geary Street Railroad into a Conduit Electric System in combination with a Conduit Electric System for the new portion, commencing at the intersection of Fifth and Point Lobos avenues, thence along Point Lobos avenue to Tenth avenue, and along Tenth avenue to the Park; the pavement for this new portion of conduit system to be either bituminous rock or asphalt; also, bituminous rock or asphalt pavement for that portion of the present Geary Street System, between tracks

and for two (2) feet on either side, from Central avenue to Fifth avenue, which portion has a macadam pavement now.

Second. The second project is to be exactly the same as the first except that the pavement for the new portion of the conduit electric road to be macadamized, as it present.

Third. The conversion of the Geary Street Cable Railroad into a Conduit Electric System, in combination with an overhead Electric Trolley System. The conduit system to extend from the westerly line of Kearney street, along Geary to Point Lobos avenue, and along Point Lobos avenue to Fifth avenue. At Fifth avenue the Trolley System will commence, extending along Point Lobos avenue to Tenth avenue, and thence along Tenth avenue to Golden Gate Park. All of the new portion of the system to be paved with bituminous rock or asphalt, between rails, and for two (2) feet on either side of the rails; this applies also to that portion of the Geary Street System between Central avenue and Fifth avenue, that has a macadam pavement at present.

Fourth. The fourth project will be precisely the same as the third with the exception that the pavement for the new portion will be macadam, as it is at present.

REMARKS ON ABOVE PROJECTS.

The estimate of cost is based on all the necessary conductor rails, electric bonds, insulators, manholes and covers, sewer connections (from conduit to sewer) conductor cables, lead covered, ducts for cables, and drain connection from duct manholes to sewers, all of which applies to both the Geary street converted road as well as to the new extension. The rails and slot iron of the present Geary street road are supposed to remain in position as at present, but the new portions of both conduit and trolley systems will have up-to-date nine (9) inch grooved girder rail, 107 lbs. per yard.

POWER.

The power for the operation of the cars on the road is supposed to be purchased from any one of the large corporations that now sell electric current. Upon inquiry it was found that it can be obtained here for from two (2) cents to two and one-half (2½) cents per kilowatt hour, and my calculations are based upon two and one-quarter (2¼) cents per kilowatt hour. In order to obtain this power from any company that also furnishes electric current for lighting purposes, it will be necessary to have a storage battery in connection with the electric station of the system. This battery is necessitated by the great variations of power in the operation of electric railroads, and is required to "even up" the load. As will be seen in the estimates this battery is also included.

ESTIMATES OF COST.

First Proposition. Conversion of Geary Street Railroad into a Conduit Electric System in combination with a conduit Electric System. The new portion of the conduit system commencing at the intersection of Fifth avenue and Point Lobos avenue thence along Point Lobos avenue to Tenth avenue and along Tenth avenue to Golden Gate Park. (That portion of the Geary Street System extending from the intersection of Point Lobos and Fifth avenues along Fifth avenue to the Park to be abandoned.) Bituminous rock or asphalt pavement for the new portion and the same pavement for that portion of the present Geary Street System between Central avenue and Fifth avenue, that now has macadam pavement.

Conversion of Geary street to Fifth avenue using the present track, 3,335 miles; all fully equipped, with a cross over at Kearney street.....	\$72,700
All the necessary lead covered conductor cables for same.....	43,585
The necessary vitrified ducts for these cables.....	20,510
Real estate for car house.....	18,000
Two-story office building, including car house, machinery and battery room	50,000
Thirty (30) modern electric cars, 32 feet by 8 feet, with 2 32-H. P motors and electric plows.....	140,050
Electric machinery necessary to drive the cars including switch-board and installation.....	29,850
One storage battery, consisting of 264 cells fully equipped and erected.....	55,000
0.808 miles of new conduit double track road, with two crossings and a cross-over; including asphalt pavement between rails and two feet on each side of rails; also asphalt pavement for that portion of the Geary street system between Central avenue and Fifth avenue.....	115,210
For removing gas and water pipes, conduits, etc.....	25,000
Tracks, transfer-table, electric car elevator, tools, furniture and repair wagon.....	15,000
Total.....	\$584,905
10% for contingencies.....	58,490
Total.....	\$643,395

Second Proposition. The second to be exactly the same as the first project, except that the pavement for the new portion of the Conduit Electric System to be macadam as at present; via: Geary street to Fifth avenue to be converted into a conduit electric system, and thence along Point Lobos avenue to Tenth avenue, and along Tenth avenue to the Park to be new Conduit System.

The total estimated cost for this including macadam pavement will be \$563,370
 10% for engineering and contingencies 56,337

Total \$619,707

Third Proposition. The third project contemplates the conversion of the present Geary Street Cable Railroad into a Conduit Electric System in combination with an Overhead Electric Trolley System. The Conduit System to extend from Kearny street to Fifth avenue. At Fifth avenue the Overhead Trolley System will commence extending along Point Lobos avenue to Tenth avenue and along Tenth avenue to Golden Gate Park. All of the new portion of the system to be paved with bituminous rock or asphalt between the rails and for two feet on each side of the rails, and also all that portion of the present Geary Street System between Central avenue and Fifth avenue, which is now paved with macadam.

The estimated cost of this project is as follows:

Conversion of Geary street to Fifth avenue, using the present rails and slot iron, 3.335 miles, all fully equipped with cross-over at Kearny street . . . \$72,700
 All the necessary lead covered conductor cables, and overhead conductor cables 34,620
 The necessary vitrified ducts for the cables 16,335
 Real estate for car house 18,000
 Two-story office building, including car house, machinery and battery room 50,000
 Thirty (30) modern electric cars, 32 feet by 8 feet, with two 35-H.P. motors each, and electric plows 140,050
 Tracks, transfer-table, electric car elevator, tools, furniture and repair wagon 15,000
 Electric machinery necessary to drive the cars, including switchboard, and installation 29,850
 One storage battery consisting of 264 cells, fully equipped and erected 55,000
 0.808 miles of overhead track, with ornamental iron poles and caps, in concrete base, 9-inch grooved girder rails, insulators, wiring, etc., all complete with pit for changing the cars from conduit to overhead; asphalt pavement between tracks and for two feet on either side 55,075
 For removing gas and water pipes for the conversion of Geary street 25,000

10% engineering and contingencies \$511,630
 51,163

Total \$562,793

Fourth Proposition. The fourth project to be exactly the same as the third, except that the pavement for the new portion of the road to be macadam as at present. The total estimate of cost for this, including macadam pavement will be 490,095
 10% for engineering and contingencies 49,009

Total \$539,104

From the foregoing estimates I am enabled to answer the demand made upon the Board of Public Works by the Board of Supervisors, as set forth in Bill No. 1,689 Ordinance No. ———, passed for printing April 24, 1905, and as therein provided under Section 2.

The estimate of cost for the five sub-divisions of Section 2 are as follows, viz:

Sub-division 1. The conversion of the present Geary street road into an electric road, with underground conductors of electricity, with conductor cable, lead covered, and ducts for cable, from Market street along Geary street to Point Lobos avenue, and along Point Lobos avenue to Fifth avenue, 3.335 miles 148,120
 10% for contingencies 14,812

Total \$162,932

Sub-division 2. New electric road, double tracks, with underground conductors of electricity, with conductor cable, lead covered, and ducts for cable, along Point Lobos avenue from Fifth avenue to Tenth avenue, along Tenth avenue to Fulton street .808 miles, including bituminous rock or asphalt pavement between rails and for two feet on each side thereof, and including removal of water and gas pipes, conduits and other obstructions 128,885
 10% for contingencies 12,888

Total \$141,773

REPORT OF CITY ENGINEER

Sub-division 3. The necessary cars, tools and appliances required to operate said railroad from Market street along Geary street to Point Lobos avenue and along Point Lobos avenue to Fifth avenue, excluding power	93,025
10% for contingencies.....	9,302
Total	<u>\$102,327</u>
Sub-division 4. The necessary cars, tools and appliances required to operate said railroad from Market street along Geary street to Point Lobos avenue, along Point Lobos avenue to Tenth avenue and along Tenth avenue to Fulton street, excluding power.....	91,875
10% for contingencies.....	9,187
Total	<u>101,062</u>
Sub-division 5. Storage battery required in operation of railroad, when electric power to operate is furnished.....	55,000
Real estate for same.....	18,000
Total	<u>\$73,000</u>
10% for engineering and contingencies.....	7,300
Total	<u>\$80,300</u>
The ordinance does not demand an estimate on a building but in my previous estimates this is included and is estimated at.....	50,000
10% for engineering and contingencies.....	5,000
Total	<u>\$55,000</u>
Including this estimate for the building will bring the estimate under the five sub-divisions of Section 2, to the amount of.....	\$643,395
This is the same sum as estimated under the first project.	

Respectfully submitted,

(Signed) J. C. H. STUT.

Bureau of Streets

San Francisco, July 20th, 1905.

To the Honorable the Board of Public Works
of the City and County of San Francisco:

Gentlemen—I have the honor to present herewith the sixth annual report of the operations of the Bureau of Streets for the fiscal year commencing July 1st, 1904, and ending June 30th, 1905.

Respectfully,

A. J. DONOVAN,
Office Deputy, Board of Public Works.

REPAIRS TO STONE PAVEMENTS.

The repairs to the basalt block and cobble stone pavements were made by an average force of nine paving crews. Each paving crew consists of a paver, rammer and laborer. These employees were furnished with paving blocks, sand and gravel by three double and three single teams each with driver.

The annual appropriation for this work was \$50,000, and the area of pavements maintained was 109 miles.

The following quantities of material were used in the performance of this work:

- 215,452 old basalt blocks.
- 2,424 cubic yards of gravel.
- 1,200 cobble stones.
- 847 lineal feet of granite crosswalks.
- 119 lineal feet of granite curbing.

The area of repair work performed for each month of the fiscal year and the quantities of materials used are set forth in the following tabulated statement:

AREA OF PAVING AND QUANTITIES OF MATERIALS.

MONTH	Sq. Ft. of Paving	Old Basalt Blocks	Cubic Yds. Gravel	Cobbles	Lin. Feet Crosswalks	Lin. Feet Curb
1904						
July.....	85,150	69,702	326½	.....	.....	.....
August.....	78,083	27,395	332	.....	.....	.....
September....	59,089	18,300	267	.....	55	.....
October.....	69,571	9,360	261	.....	29	.....
November....	69,626	10,825	241	.....	248	13
December....	74,959	16,450	213	.....	281	.....
1905						
January.....	68,712	10,935	239½	.....	109 3-12	.....
February....	32,930	2,950	105	.....	.....	.....
March.....	31,748	3,900	142½	.....	.....	.....
April.....	34,870	7,235	98	1,200	.....	.....
May.....	31,056	18,000	90	.....	110	94
June.....	29,178	20,400	108	.....	14	12
	664,972	215,452	2,423½	1,200	846 3-12	119

The following schedule shows the location of the most important repair work and the total cost of labor and materials expended in the performance of such work. Repairs costing less than \$100 are not reported but are noted in our monthly reports.

Street	From	To	Material	Labor
Howard.....	Spear.....	Sixth.....	\$341.65	\$5,626.45
Brannan.....	First.....	Fourth.....	232.60	3,535.00
Sutter.....	Powell.....	Leavenworth.....	136.80	2,209.50
Jones.....	Turk.....	Sutter.....	137.00	2,053.00
Turk.....	Larkin.....	Gough.....	116.00	1,697.25
Bryant.....	Main.....	Sixth.....	98.68	1,625.88
Second.....	Folsom.....	Bryant.....	162.20	1,340.00
Berry.....	Third.....	Sixth.....	84.30	1,285.50
Main.....	Market.....	Bryant.....	89.80	1,273.00
Bay.....	East.....	Dupont.....	77.40	1,137.00
Folsom.....	Main.....	Fremont.....	46.40	1,097.25
Kentucky.....	Sixteenth.....	Twenty-first.....	57.40	1,084.00
Division.....	Seventh.....	Eighth.....	41.40	1,010.00
Geary.....	Octavia.....	Laguna.....	41.40	817.75
Washington.....	Drumm.....	Front.....	36.00	756.00
Clay.....	East.....	Battery.....	22.40	725.00
Montgomery ave.....	Vallejo.....	Lombard.....	58.40	702.00
Davis.....	Jackson.....	Broadway.....	37.30	684.00
Commercial.....	Kearny.....	Davis.....	30.35	609.25
Harrison.....	Third.....	Fifth.....	37.05	560.00
Eighth.....	Crossing.....	Division.....	19.00	551.00
Fourth.....	Bryant.....	Townsend.....	34.80	517.25
Howard.....	Ninth.....	Fifteenth.....	25.90	515.50
First.....	Market.....	Brannan.....	40.50	493.75
Jackson.....	Front.....	Sansome.....	20.00	412.50
Market.....	Front.....	Montgomery.....	15.70	354.75
Seventh.....	Folsom.....	Harrison.....	24.00	350.00
Spear.....	Market.....	Bryant.....	14.00	341.80
Battery.....	Commercial.....	Jackson.....	19.80	323.50
Mission.....	Second.....	New Montgomery.....	11.40	315.75
Polk.....	Broadway.....	Green.....	25.20	306.75
Geary.....	Hyde.....	Polk.....	17.80	293.50
North Point.....	Hyde.....	Larkin.....	12.60	245.00
Bluxome.....	Fourth.....	Fifth.....	26.05	214.25
Pacific.....	Davis.....	Drumm.....	18.00	198.00
Oregon.....	East.....	Drumm.....	9.70	190.50
Irwin.....	Seventh.....	De Haro.....	7.20	181.50
Beale.....	Mission.....	Howard.....	12.40	180.00
Drumm.....	Washington.....	Jackson.....	9.60	174.00
Front.....	Sacramento.....	Pacific.....	7.50	173.06
Third.....	Howard.....	Berry.....	3.65	148.50
Freelon.....	Fourth.....	Fifth.....	6.40	148.50
Townsend.....	Second.....	Third.....	5.40	145.25
Fremont.....	Market.....	Mission.....	7.65	141.25
Harriet.....	Howard.....	Folsom.....	8.10	132.00
Vallejo.....	Pierce.....	Scott.....	6.30	132.00
Filbert.....	Montgomery ave.....	Kearny.....	6.30	132.00
Brannan.....	Seventh.....	Eighth.....	5.40	132.00
Pacific.....	Kearny.....	Stockton.....	11.20	127.50
O'Farrell.....	Leavenworth.....	Hyde.....	9.60	105.00

REPAIRS TO BITUMINOUS ROCK PAVEMENTS.

The following tabulated statement shows the area of repairs made upon streets paved with bituminous rock, for each month of the fiscal year, and the cost to the city for such repairs. This work was performed under public contract.

MONTH	Bitumen and Concrete Square feet	Bitumen on Concrete Square feet	Total Cost
1904			
July.....	4,267.00	6,803.00	\$698.82
August.....	31,762.90	77,197.70	6,264.20
September.....	17,876.30	48,484.10	3,727.00
October.....	435.50		43.55
November.....			
December.....	1,732.23	2,111.65	257.70
1905			
January.....			
February.....			
March.....			
April.....			
May.....			
June.....			
Buggy hire, 12 months at \$35			420.00
			\$11,410.27

TOTAL AREA OF REPAIRS.

Bitumen and concrete.....	56,073.93 square feet
Bitumen on concrete.....	134,596.45 square feet
Grand Total.....	190,670.38 square feet

SEWER REPAIRS.

Repairs upon main sewers were made at 577 locations. There were 195 breaks in brick sewers and 382 breaks in pipe sewers repaired during the year.

Fourteen manholes, 10 cesspools and 41 catch basins were constructed.

Six thousand and thirty-two lineal feet of iron stone pipe sewer were constructed 6,866 lineal feet of brick sewer bottom were laid. 4,305 cubic yards of material were excavated in the performance of this work.

Three thousand nine hundred and eight lineal feet of iron stone pipe, 145,130 brick, and 431 barrels of cement were used.

The following table shows the number of sewer breaks repaired in brick and pipe sewers during the fiscal year:

MONTH	Brick Sewers	Pipe Sewers	Total
1904—July.....	16	36	52
August.....	17	25	42
September.....	6	22	28
October.....	28	39	67
November.....	8	35	43
December.....	23	40	63
1905—January.....	18	55	73
February.....	28	40	68
March.....	12	27	39
April.....	12	28	40
May.....	12	18	30
June.....	15	17	32
Totals.....	195	382	577

NEW MANHOLES, CESSPOOLS AND STORM WATER INLETS CONSTRUCTED.

1904—	July.....	2	manholes	0	cesspools	4	storm water inlets
	August.....	0	"	0	"	5	"
	September.....	0	"	0	"	0	"
	October.....	1	"	0	"	0	"
	November.....	0	"	5	"	3	"
	December.....	0	"	0	"	4	"
1905—	January.....	2	"	0	"	5	"
	February.....	2	"	0	"	4	"
	March.....	5	"	4	"	2	"
	April.....	1	"	0	"	6	"
	May.....	0	"	0	"	5	"
	June.....	1	"	1	"	3	"
Totals.....		14	manholes	10	cesspools	41	storm water inlets

The following schedule shows the number of lineal feet of pipe sewers reconstructed the lineal feet of brick sewers bottoms renewed, and the cubic yards of earth excavated for the work of sewer repair during the year.

	Lineal feet of Pipe Sewers	Lineal feet of Brick Sewer Bottoms	Cubic yards of Material Excavated	
1904—	July.....	485	1,356	515
	August.....	529	733	560
	September.....	287	520	276
	October.....	637	487	533
	November.....	682	550	...
	December.....	958	565	978
1905—	January.....	720	455	1,058
	February.....	691	495	...
	March.....	203	480	...
	April.....	314	505	...
	May.....	206	350	...
	June.....	320	390	385
Totals.....		6,032	6,886	4,305

Exhibit showing the quantities of iron stone pipe, brick and cement used in the work of sewer repair during the fiscal year:

	Feet of Ironstone Pipe	New Brick	Barrels Cement
1904—July.....	287	26,510	62½
August.....	315	19,550	57½
September.....	286	10,120	40½
October.....	574	28,475	63½
November.....	510	15,580	39½
December.....	460	10,240	30½
1905—January.....	415	10,250	31½
February.....	510	7,225	20
March.....	84	3,795	33½
April.....	207	4,785	16½
May.....	74	4,100	15
June.....	186	4,500	21
Totals.....	3,908	145,130	431½

The following are the most important items of sewer reconstruction and repair work performed during the year. The cost of labor performed, the quantities, character and cost of the materials used, and the number of cubic yards of earth excavated are set forth under each location.

Minor repairs costing less than \$100 are omitted.

Fillmore street, foot of—Entire bulkhead at north end of street had washed away and sand was carried from under center of buildings on both sides of roadway. After storms were over the washout was 210 feet long, 80 feet wide and 20 feet deep. Constructed 5-foot box sewer; constructed 6-foot sidewalk on westerly side of street and constructed redwood bulkhead of 4x12 planks, 10x12 posts and painted same with coal tar. Bulkhead was 70 feet wide and 20 feet high. Material, 14,643 feet pine lumber; 4,000 feet ½x3-inch redwood; 5,776 feet redwood; 3 kegs nails; 4 kegs spikes; 8½-inch bolts; 2,300 jute bags; 5,000 brick; 9 barrels cement. Filled in 10,850 yards of dirt. Material, \$643.10; Labor, \$7,511.60.

Army street between Valencia and Guerrero—Repaired 425 feet of brick sewer bottom. Material, 4,000 vitrified brick; 500 common brick; 5 gallons lard oil; 2 gallons signal oil; 100 8-inch spikes; 5 lbs. bale rope; 40 sacks cement. Material, \$111.20; Labor, \$225.00.

Army street between Mission and Valencia—Repaired bottom of main sewer. Material, 500 brick; 10 sacks cement. Material, \$8.75. Labor, \$50.00.

Army street between Mission and Howard—Repaired and reconstructed sides and bottom of circular brick sewer. This sewer was on the verge of collapsing and it being one of the principal outlet sewers it would have done great damage. Material, 16,250 brick; 3,050 vitrified brick; 145 sacks cement; 100 jute bags; 9 gallons lard oil; 5 gallons signal oil; 20 gallons silicate of soda; 10 lbs. bale rope; 45 lbs. nails. Material, \$275.75. Labor, \$1,094.80.

Army street between Howard and Folsom—Repaired and reconstructed 870 feet of 7x7 circular brick sewer. Used vitrified brick on account of the velocity of the flow of water and the great amount of gravel deposited in this sewer. Material, 16,000 common brick; 5,400 vitrified brick; 170 sacks cement; 23 gallons lard oil; 7 gallons signal oil; 23 lbs. bale rope; 5 gallons silicate of soda; 100 jute bags; 40 lbs. spikes. Material, \$341.95. Labor, \$1,201.50.

Mission street between Ottawa and Foote—Reconstructed 140 feet of 24-inch culvert across Mission street. Substituted 24-inch ironstone pipe in place of old wooden culvert. Also constructed manhole. Material, 140 feet 24-inch stone pipe; 1,750 brick; 3 barrels cement; 465 pounds castings. Material, \$167.90. Labor, \$544.00.

Reconstructed 275 feet of 18-inch stone pipe sewer commencing at manhole in center of Mission and Ottawa streets, thence 275 feet to culvert crossing Mission street between Foote and Ottawa streets. Excavated 300 yards clay. Material, 126 feet new 18-inch pipe; 50 brick; 1½ barrels cement. Material, \$101.40. Labor, \$323.00.

Harriet street between Folsom and Howard—Constructed 150 feet of 12-inch pipe sewer on top of 16-inch pipe sewer already laid in this block. After cleaning this sewer it always filled up after every rainy storm. On account of condition of Sixth street sewer between Folsom and Harrison streets and the Folsom street sewer between Harriet and Sixth streets it was impossible to do anything permanent until these sewers are all reconstructed. Material, 150 feet 12-inch pipe; 7 pieces 12x6 Y's; 2 barrels cement; 15 gallons silicate of soda; 150 brick. Material, \$69.50. Labor, \$647.00.

Re-laid 2 side sewers, built new manhole and repaired 8 feet of crown of brick sewer in crossing. Material, 16 feet 6-inch pipe; 2 pieces 6-inch bends; 800 brick; 6 sacks cement; 1 rim and cover; weight, 481 pounds. Material, \$24.20. Labor, \$75.00.

M Street South between Fifth and Sixth avenues—Reconstructed 130 feet of 18-inch pipe sewer and 60 feet of 16-inch pipe sewer. Excavated 197 yards rock. Material, 130 feet 18-inch pipe; 60 feet 16-inch pipe; $4\frac{1}{2}$ sacks cement; 160 brick. Material, \$112.35. Labor, \$382.50.

Pierce street between Pine and California—Repaired 385 feet of 3x5 brick sewer. Excavated 100 yards sand. Material, 7,000 brick; 15 barrels cement; 6 gallons signal oil; 10 pounds assorted nails; 9 pounds bale rope; 2 gallons silicate of soda; 40 jute bags. Material, \$91.60. Labor, \$501.25.

Broadway between Polk and Larkin—Built dam and repaired 365 feet of bottom in 3x5 main brick sewer. Material, 3,650 brick; 25 sacks cement; 75 jute bags; 2 gallons lard oil. Also set new manhole rim and cover, weight 464 pounds. Material, \$68.75. Labor, \$241.50.

Folsom street between Thirteenth and Fourteenth—Reconstructed 145 feet of 3x5 brick sewer commencing at northerly line of Thirteenth street, thence southerly. Excavated 113 yards sand. Material, 7,800 new brick; 4,250 old brick; 21 barrels cement; 25 jute bags; 7 gallons signal oil; 5 lbs. nails; 17 gallons silicate of soda. Material, \$112.75. Labor, \$625.00.

Fifteenth street between Noe and Castro—Reconstructed 245 feet of 18-inch pipe sewer and 150 feet of old cement sewer. Also built new manhole. Excavated 475 yards clay. Material, 1,500 brick; $4\frac{1}{2}$ barrels cement; 395 feet 18-inch pipe; 1 manhole rim and cover; 487 pounds. Material, \$208.05. Labor, \$1,236.50.

Ninth street between Bryant and Brannan—Reconstructed 60 feet of 3x5 brick sewer. Excavated 75 yards sand. Material, 2,150 new brick; 3,800 old brick; 12 barrels cement; 2 gallons signal oil; 20 jute bags; 2 pounds nails. Material, \$41.95. Labor, \$340.00.

Brannan street crossing Dore street—Reconstructed 45 feet of 18-inch pipe-crossing, commencing at the northerly line of Brannan street and connecting with brick sewer at center of street. Excavated 50 yards of sand. Material, $\frac{1}{2}$ barrel cement; 35 brick; 45 feet 18-inch pipe. Material, \$36.95. Labor, \$85.00.

Sacramento street between Davis and Front—Reconstructed 30 feet of 3x5 brick sewer commencing at point 100 feet westerly from Davis street, thence 30 feet westerly. This work done between tides. Excavated 35 yards sand. Material, 1,250 new brick; 3,200 old brick; 6 barrels cement; 5 gallons silicate of soda; 2 gallons oil. Material \$24.50. Labor, \$175.00.

Market street between East and Sacramento—Repaired 18 feet of crown of 3x5 brick sewer commencing at the westerly line of East and Market streets, thence 18 feet westerly. Excavated 20 yards sand. Material, 1,000 brick; 2 barrels cement. Material, \$11.50. Labor, \$106.00.

Seventeenth street between Valencia and Mission. Repaired 328 feet of bottom of 3x5 brick sewer. Material, 6,250 brick; 13 barrels cement; 5 pounds 8-inch spikes; 1 gallon signal oil; 3 gallons lard oil; 3 pounds bale rope; 20 jute bags. Material, \$76.75. Labor, \$200.00.

Stockton street between Broadway and Vallejo—Repaired bottom of 3x5 brick sewer, 200 feet in all. Material, 2,900 brick; 6 barrels cement. Material, \$33.75. Labor, \$105.00.

Fulton street between Laguna and Buchanan—Repaired 357 feet of bottom in 3x5 brick sewer. Material, 2,500 brick; 9 barrels cement. Material, \$36.75. Labor, \$186.25.

Larkin street between Geary and Post—Repaired 275 feet of bottom in 3x5 brick sewer. Material, 3,450 brick; 9 barrels cement. Material, \$43.90. Labor, \$318.00.

Bush street between Broderick and Baker—Repaired 30 feet of 16-inch pipe sewer. Excavated 35 yards sand. Material, 25 feet 16-inch pipe; 30 brick; $\frac{1}{2}$ barrel cement. Material, \$17.20. Labor, \$107.50.

Baker's Beach—Richmond sewer. Constructed concrete foundation for bulkhead wall, repaired side of concrete box and built portion of bulkhead wall. Material, 108 sacks cement; 10,800 brick; 50 jute bags. Material, \$137.75. Labor, \$391.50.

Eighteenth street between Noe and Sanchez—Repaired 200 feet of bottom in 3x5 brick sewer commencing at center line of block between Noe and Sanchez streets. Material, 2,800 brick; $1\frac{1}{2}$ yards of gravel; 8 barrels cement. Material, \$38.35. Labor, \$222.25.

Fillmore and Bay streets—Connected old brick sewer with wooden flume and constructed manhole at intersection. Material, 5,000 brick; $8\frac{1}{2}$ barrels cement. Material, \$55.00. Labor, \$156.00.

Glasgow street between Eddy and Ellis streets—Repaired 55 feet of 16-inch stone pipe sewer. Excavated 60 yards sand. Material, 55 feet 16-inch pipe; 2 sacks cement. Material, \$37.15. Labor, \$111.50.

Fulton street crossing Devisadero street—Reconstructed crossing in west wing, also built new manhole. Excavated 60 yards clay. Material, 1,250 bricks; 9 sacks cement; 1 manhole rim; 281 pounds; 1 manhole cover; 207 pounds; 23 joints of 18-inch pipe ($57\frac{1}{2}$) feet. Material, \$58.90. Labor, \$140.50.

Noe street between Twenty-fourth and Twenty-fifth—Repaired 49 feet of main sewer; 18-inch iron stone pipe; excavated 50 yards clay. Material, 49 feet 18-inch pipe; 2 sacks cement; 75 brick. Material, \$39.90. Labor, \$125.00.

Twenty-ninth street between Sanchez and Noe—Repaired 55 feet of main sewer, 18-inch iron stone pipe. Excavated 55 yards clay. Material, 55 feet 18-inch pipe; 50 brick; 1 sack cement. Material, \$43.90. Labor, \$130.00.

Montgomery avenue between Union and Filbert—Repaired 14 feet of 3x5 brick sewer. Excavated 40 yards clay. Material, 2,500 brick; 14 sacks cement. Material, \$46.75. Labor, \$224.00.

Fillmore street between Greenwich and Lombard—Reconstructed 200 feet of 18-inch pipe sewer commencing at manhole in middle of block, thence northerly. Excavated 315 yards sand. Material, 200 feet 18-inch pipe; 1½ barrels cement; 30 brick. Material, \$158.90. Labor, \$430.50.

Union street between Polk and Larkin—Repaired 80 feet of 18-inch pipe sewer; this sewer is 18 feet deep. Excavated 233 yards clay and rock. Material, 80 feet 18-inch pipe; 1½ barrels cement; 175 brick. Material, \$66.85. Labor, \$798.50.

Mission street between Italy and Amazon avenue—Repaired 50 feet of 4-foot wooden culvert on east side of street along the line of curb. Excavated 35 yards sand; also repaired same culvert at westerly line of Italy and Mission streets and in the vegetable gardens. Material, 2,150 feet redwood; 1 keg spikes. Material, \$40.85. Labor \$105.50.

San Bruno avenue crossing Twenty-fourth street—Moved back cesspools on the four corners to conform to new sidewalk lines. Excavated 85 yards clay. Material, 6 joints 10-inch pipe; 1 sack cement; 50 brick. Material, \$4.30. Labor, \$165.00.

Fremont street crossing Mission street—Reconstructed 28 feet of 10-inch culvert from northwest corner cesspool and 78 feet of 8 inch-culvert from southeast corner; also reconstructed southeast corner cesspool into storm water inlet. Excavated 45 yards sand. Material, 400 brick; 2 barrels cement; 28 feet 10-inch pipe; 28 feet 8-inch pipe; frame and grate, 487 pounds. Material, \$31.45. Labor, \$75.00.

Folsom street between Seventeenth and Eighteenth—Repaired 26 feet of 18-inch pipe sewer. Excavated 30 yards sand. Material, 22 feet of 18-inch pipe; 50 brick; ½ barrel cement. Material, \$17.50. Labor, \$87.50.

Pacific street between Powell and Mason—Repaired 250 feet of bottom of 3x5 brick sewer. Excavated 12 yards sand. Material, 2,500 new brick; 1,000 old brick; 6½ barrels cement. Material, \$31.75. Labor, \$156.25.

Presidio avenue and California street—Constructed storm water inlets on the northwest and southwest corners. Material, 1,000 brick; 8 sacks cement; 3 joints 10-inch pipe; 2 joints 8-inch pipe; castings, 1,199 pounds. Material, \$55.90. Labor, \$75.00.

SEWER AND CESSPOOL FLUSHING AND SEWER EXAMINATION.

The ironstone pipe sewers are cleaned by flushing with fresh water from the hydrant of the Spring Valley Water Company. The cesspools in addition to being cleaned are also flushed with fresh water.

In addition to the cleaning of the cesspools and sewers 4,666 cesspools and 525 blocks of pipe sewers were flushed during the year.

The flushing crews examined 424 blocks of brick sewers to ascertain the nature of defects, preparatory to repair work.

The following schedule presents the number of sewers examined, cesspools and blocks of sewers flushed, and the cost of the work for each month of the fiscal year.

MONTH	Blocks of sewers Examined	Cesspools Flushed	Blocks of Sewers Flushed	Cost of Labor
1904—July.....	46	700	62	\$588.00
August.....	46	700	62	588.00
September.....	..	..	..	..
October.....	48	512	72	713.00
November.....	53	487	64	690.00
December.....	32	503	53	747.50
1905—January.....	45	464	68	690.00
February.....	72	412	46	575.00
March.....	..	..	..	..
April.....	26	420	42	325.00
May.....	58	468	56	312.50
June.....	..	..	..	..
Totals.....	424	4,666	525	\$5,229.00

SEWER CLEANING. (BRICK SEWERS.)

During the fiscal year the employees engaged in sewer cleaning removed with buckets and windlass through the sewer manholes from brick sewers and transported to the dump 5,721 cubic yards of silt. The cost of labor and teaming employed in this work was \$15,378.75.

The following tabulated exhibit shows the quantities of material removed from the brick sewers each month and the cost of labor and teaming employed in the work.

MONTH	Cubic Yards of Silt Removed	Cost for Each Month
1904—July.....	632	\$1,639.50
August.....	639	1,721.00
September.....	826	1,625.25
October.....	464	1,702.00
November.....	553	1,591.00
December.....	593	1,630.50
1905—January.....	657	1,699.25
February.....	326	935.25
March.....	264	769.00
April.....	245	673.00
May.....	239	655.00
June.....	283	738.00
Totals.....	5,721	\$15,378.75

CESSPOOL CLEANING.

The employees of the Bureau of Streets engaged in cesspool cleaning were employed in this work for nine months during the fiscal year. There was no work performed in the months of April, May and June.

Two thousand and sixty-six cesspools were cleaned.

Three thousand and twenty-eight cubic yards of silt were removed from these cesspools and transported to the dump at a cost of \$6,019.75.

In addition to the above, many cesspools were flushed. This work is reported under the heading of sewer and cesspool flushing.

The following table shows the number of cesspools cleaned during each month of the fiscal year, the quantities of material removed and the cost of the work.

MONTH	Cesspools Cleaned	Cu. Yds. Material Removed	Cost
1904—July.....	410	434	\$762.50
August.....	330	458	860.50
September.....	211	212	777.00
October.....	129	340	814.50
November.....	210	438	503.00
December.....	340	526	1,114.50
1905—January.....	345	458	855.50
February.....	60	134	288.75
March.....	31	28	44.00
April.....	..	..	.....
May.....	..	..	.....
June.....	..	..	.....
Totals.....	2,066	3,028	\$6,019.75

PREPARATION AND POSTING OF NOTICES OF STREET WORK AND MAILING COPIES OF RESOLUTION OF INTENTION.

During the fiscal year ending June 30, 1905, the Board of Public Works passed twenty-eight (28) resolutions of intention recommending the ordering of the improvement of one hundred and forty-two (142) separate pieces of work.

The Bureau of Streets prepared and posted along the line of said contemplated improvements fourteen hundred and twenty-seven (1,427) "Notices of Street Work" stating the facts of the passage of the resolution of intention and the work or improvement proposed.

There was also thirty-two hundred and seventy-four (3,274) copies of the Resolutions of Intention addressed and mailed to the owners of property affected by these improvements, as such owners were designated on diagrams prepared from the Assessor's block books, and to addresses secured from the City Directory.

The following schedule shows the number of the Resolution of Intention, the date of passage, the number of separate pieces of work embodied in each resolution, the number of "Notices of Street Work" prepared and posted and the number of copies of the "Resolution of Intention" mailed to property owners.

Number of Resolution	Date	Pieces of Work	Notices Posted	Notices Mailed
4196	July 27, 1904	6	49	100
4197	July 27, 1904	8	63	173
4306	Aug. 24, 1904	6	58	141
4441	Sept. 14, 1904	6	66	154
4464	Sept. 21, 1904	4	22	75
4472	Sept. 21, 1904	1	26	134
4491	Sept. 29, 1904	2	18	50
4520	Oct. 5, 1904	7	158	342
4521	Oct. 5, 1904	5	36	63
4603	Oct. 26, 1904	4	42	66
4738	Nov. 16, 1904	5	39	86
4740	Nov. 16, 1904	5	41	103
4858	Dec. 7, 1904	6	35	60
5039	Jan. 18, 1905	1	4	15
5062	Jan. 25, 1905	15	84	261
5147	Feb. 8, 1905	12	84	222
5494	Mar. 30, 1905	2	22	23
5515	Apr. 5, 1905	5	67	213
5516	Apr. 5, 1905	6	48	113
5658	Apr. 26, 1905	14	108	477
5694	May 3, 1905	1	60	32
5718	May 3, 1905	7	58	54
5721	May 3, 1905	2	80	36
5728	May 3, 1905	1	20	27
5735	May 5, 1905	1	61	86
5839	May 24, 1905	7	48	79
6008	June 7, 1905	1	12	21
6151	June 28, 1905	2	18	68
		142	1,427	3,274

CORPORATION TRENCHES.

The following schedules show the number of trenches opened by the light, water and other corporations. The restoration of the pavement over these trenches is performed under the supervision of Inspectors D. J. O'Brien and William Still.

REPORT OF INSPECTOR D. J. O'BRIEN.

	Mains	Services	Total Trenches
San Francisco Coke and Gas Co.....	197	547	744
Pacific States Tele. & Tele. Co.....	176	42	218
Spring Valley water Co.....	68	1,197	1,265
San Francisco Gas & Electric Co.....	49	1,967	2,016
Department of Electricity.....	21	...	21
Mutual Electric Light Co.....	10	11	21
Olympic Salt Water Co.....	...	8	8
Central Light & Power Co.....	...	7	7
	521	3,779	4,300

REPORT OF INSPECTOR WILLIAM STILL.

	Mains	Services	Total Trenches
Spring Valley Water Co.....	83	1,192	1,275
San Francisco Gas & Electric Co.....	126	2,127	2,253
Pacific States Tele. & Tele. Co.....	110	23	133
Central Light & Power Co.....	4	5	9
Martel Power Co.....	2	6	8
Olympic Salt Water Co.....	...	2	2
Department of Electricity.....	2	...	2
Mutual Electric Light Co.....	6	8	14
Visitacion Water Co.....	3	...	3
	336	3,363	3,699

INSPECTORS OF COMPLAINTS.

There are three inspectors assigned to the duty of serving notices upon property owners and others for the repair of sidewalks, side-sewers, construction of bulkheads, removal of street obstructions, construction of bridge sidewalks over excavations, the placing of house numbers, and miscellaneous notices requiring compliance with municipal ordinances. These inspectors also report upon the condition of streets after completion of building operations, house moving or any disturbance of pavements.

REPORT OF INSPECTOR EDWARD LAWTON.

	Street Space	House Mov'g	Obstruction	Side sewer...	Sidewalk....	Bulkhead...	Miscellaneous
1904—July.....	209	..	31	17	51	6	69
August.....	211	..	62	19	39	4	41
September.....	222	..	39	5	33	10	42
October.....	278	5	63	10	32	2	48
November.....	272	2	35	14	40	1	40
December.....	208	1	59	10	27	2	55
1905—January.....	247	..	33	2	34	9	41
February.....	225	2	51	15	36	4	45
March.....	173	1	36	8	31	8	39
April.....	196	1	46	27	35	1	39
May.....	208	5	47	11	50	..	51
June.....	127	3	47	7	22	..	53
	2,576	20	549	145	430	47	563

REPORT OF INSPECTOR ANTHONY FLYNN.

	Street Space.	House Mov'g	Obstruction	Side sewer...	Sidewalk....	Bulkhead...	Miscellaneous
1904—July.....	71	1	24	15	21	5	42
August.....	150	2	31	3	93	4	45
September.....	157	4	20	15	67	8	30
October.....	188	4	15	10	60	5	35
November.....	179	..	19	9	44	5	80
December.....	131	2	34	5	47	1	25
1905—January.....	156	2	14	6	44	3	73
February.....	114	1	35	10	35	2	73
March.....	138	2	29	5	55	7	119
April.....	148	3	23	11	37	3	88
May.....	128	1	40	3	40	1	66
June.....	222	8	36	30	27	6	67
	1,782	30	320	122	570	50	743

NUMBER OF COMPLAINTS.

The following exhibits presents the number of complaints received and recorded on the complain book for each month of the fiscal year, and the character of such complaints:

	Sidewalks Needing Repair	Sidewalks Obstructed	Roadway Needing Repair	Roadway Obstructed	Sewers Choked	Cesspools Choked	Bulkheads Needing Repair
1904—July.....	47	4	52	1	33	17	3
August.....	37	4	49	7	26	29	..
September.....	37	6	103	6	38	81	..
October.....	27	7	112	10	34	61	3
November.....	14	2	79	2	25	35	1
December.....	22	2	86	5	22	63	..
1905—January.....	25	..	104	10	32	58	2
February.....	18	1	54	6	24	40	2
March.....	24	3	81	3	34	85	1
April.....	28	1	64	10	15	34	..
May.....	18	4	56	1	15	42	..
June.....	23	4	40	7	15	15	..
Total.....	320	38	880	68	313	560	12

There were also 1,102 miscellaneous complaints in addition to the above.
Total number of complaints, 3,293.

REPORT OF INSPECTOR WILLIAM H. GRIFFIN.

	Street Space	Obstruction	Miscellaneous
1904—July.....	63	141	228
August.....	..	210	242
September.....	..	164	342
October.....	..	85	360
November.....	..	81	250
December.....	..	169	403
1905—January.....	..	208	230
February.....	..	253	363
March.....	..	204	443
April.....	..	146	379
May.....	..	185	372
June.....	47	139	310
Totals.....	110	1,985	3,922

	House Number Notices Served	Irregular Blocks Officially Numbered
1904—July.....	417	7
August.....	476	14
September.....	292	21
October.....	379	17
November.....	311	22
December.....	437	27
1905—January.....	440	37
February.....	373	22
March.....	438	18
April.....	336	24
May.....	268	15
June.....	299	14
Totals.....	4,466	238

SIDE SEWER CONSTRUCTION.

During the fiscal year 1904-05, an aggregate total of 2,247 side-sewers were constructed as follows:

In streets paved with bitumen or asphalt.	721
In streets paved with basalt or cobbles.	512
In unimproved streets.	1014

Total. 2247

The following table shows the number of side-sewers constructed each month:

	Number Constructed	Number in streets paved with Bitumen or Asphalt	Number in streets paved with Basalt or Cobbles	Number in unimproved streets.	Number of men employed
1904—July.....	142	47	37	58	61
August.....	195	82	43	70	57
September.....	170	53	53	64	55
October.....	182	70	44	68	58
November.....	213	65	55	93	56
December.....	208	66	43	99	57
1905—January.....	198	62	41	95	58
February.....	168	50	39	79	58
March.....	194	52	37	105	59
April.....	186	61	40	85	51
May.....	203	58	47	98	51
June.....	188	55	33	100	51
Totals.....	2,247	721	512	1,014	

An average of 56 men were employed each month in side-sewer construction, including inspector, paver, rammer, horse and cart with driver, and one double team with driver, also one foreman.

The total aggregate pay roll for the year was \$48,746.95.

Two thousand one hundred and twenty-four applications were made during the year for the construction of new side-sewers and deposits aggregating \$76,831.00 made with the Cashier of the Board of Public Works therefor.

MAINTENANCE OF BRIDGES.

The municipal bridges were kept in repair by the employees of the Bureau of Streets, and the repair work performed is noted in this report under the subdivision of carpenter work; also in the monthly reports of the Chief Engineer of Drawbridges.

The Fourth street bridge was opened for the accommodation of vessels entering and passing out of the Channel during each month of the fiscal year as follows:

MONTH	Vessels Entering	Vessels Passing out	Total Openings
1904—July.....	290	297	587
August.....	359	346	705
September.....	327	314	641
October.....	384	364	748
November.....	337	321	658
December.....	309	305	614
1905—January.....	340	331	671
February.....	322	321	643
March.....	342	336	678
April.....	338	337	675
May.....	353	337	690
June.....	300	310	610
	4,001	3,919	7,920

CORPORATION YARD REPORT.

	On hand	Received	Delivered	On hand
Brick.....	10,360	121,250	130,005	1,605
Cement.....	18 bbls	563 bbls.	567½ bbl.	13½ bbls.
Cesspool covers.....	2	54	55	1
Cesspool rims.....	6	32	29	9
Cesspool grates.....	1	..	1	..
Cesspool corners.....	..	48	46	2
Cesspool plates.....	1	48	21	28
Manhole rims.....	4	54	55	3
Manhole covers.....	..	80	77	3
Storm inlet frames.....	4	51	44	11
Storm inlet grates.....	5	82	55	32
Ironstone pipe—				
4-inch.....	..	32 jts.	32 jts.	..
6-inch.....	..	180 "	170 "	10 jts.
8-inch.....	9 jts.	120 "	127 "	2 "
10-inch.....	..	450 "	446 "	4 "
12-inch.....	..	75 "	53 "	22 "
14-inch.....	15 "	100 "	44 "	71 "
16-inch.....	5 "	147 "	145 "	7 "
18-inch.....	4 "	723 "	727 "	..
24-inch.....	..	90 "	81 "	9 "
Y pipe.....	5	40	40	5
Bends.....	2	26	26	2
Elbows.....	..	8	8	..
Lard oil.....	1 gal.	185 gal.	182 gal.	4 gal.
Signal oil.....	8 "	1,532 "	1,516 "	24 "
Coal oil.....	6 "	105 "	111 "	..
Cylinder oil.....	..	20 "	20 "	..
Engine oil.....	..	25 "	25 "	..
Lumber—pine.....	6,180 ft.	310,228 ft.	315,728 ft.	680 ft.
Lumber—redwood.....	47 "	28,960 "	28,780 "	227 "
Jute sacks.....	17	11,509	11,509	8
Nails.....	376 lbs.	10,300 lbs.	9,803 lbs.	873 lbs.
Spikes.....	300 "	13,500 "	10,765 "	3,035 "
Coal.....	..	42 tons	42 tons	..
Lanterns.....	31	684	686	29
Picks.....	14	330	301	43
Sledges.....	4	54	54	4
L. H. Axes.....	..	12	12	..
Bit Axes.....	..	42	31	11
Hand Axes.....	..	54	51	3
Lamp Black.....	31	..	31	..
Hand saws.....	..	94	91	3
Cross cut saws.....	..	4	2	2
Spanners.....	..	72	59	13
Black Powder.....	..	32 cans	32 cans.	..
Giant powder.....	..	650 lbs.	650 lbs.	..
Caps.....	..	8 boxes.	8 boxes	..
Caps.....	..	boxes	8 boxes	..
Fuse.....	..	13 coils	13 coils	..
Bale rope.....	..	12 "	12 "	..
Manila rope.....	..	400 ft.	400 ft.	..
Red globes.....	250	912	1,144	18
White globes.....	..	36	28	8
Oil cans.....	..	72	69	3
Handles.....	..	576	563	13
L. H. Shovels.....	..	490	486	4
Wheelbarrows—iron.....	..	12	7	5
Wheelbarrows—wood.....	..	26	24	2
Scoop shovels.....	..	6	6	..
Wood buckets.....	..	48	46	2
Iron buckets.....	..	6	..	6
Rubber boots.....	..	13 doz.	13 doz.	..
Rubber hose.....	50 ft.	4,200 ft.	4,250 ft.	..
Rubber hose—2½ inch.....	..	500 "	500 "	..
Octagon steel.....	..	1,140	1,140	..
Iron.....	..	7 bun'ls	7 bun'ls	..
Files.....	..	168	168	..
Hose nozzles.....	..	36	29	7

REPORT OF BUREAU OF STREETS

CORPORATION YARD REPORT--Continued.

	On Hand	Received	Delivered	On Hand
Bolts.....	..	106 lbs.	106 lbs.	..
Reducers.....	..	37	31	6
Mattocks.....	..	48	39	9
Hoes.....	..	2 doz.	2 doz.	..
Cotton Waste.....	..	150 lbs.	150 lbs.	..
Tampers.....	..	36	24	12
Albany Grease.....	..	210 lbs.	210 lbs.	..
Street Brooms.....	..	13 doz.	13 doz.	..
Corn Brooms.....	..	3 "	3 "	..
Wrenches.....	..	1 "	1 "	..
Galvanized iron buckets	..	10 "	10 "	..
Silicate of Soda.....	..	100 gal.	100 gal.	..
Yale locks.....	..	104	104	..
Matches.....	..	20 gross	20 gross	..
Cheese cloth.....	..	24 bun'ls	24 bun'ls	..
Sewer lamps.....	..	30 doz.	30 doz.	..
Burners.....	..	35	35	..

ACCEPTED STREETS FROM JULY 1st, 1904, TO JULY 1st, 1905, PAVED WITH BITUMINOUS ROCK.

Street	From	To	Date	Lineal Feet
Buchanan	Crossing	Hermann	Mar. 8, 1905	68' 9"
Baker	McAllister	Golden Gate	July 6, 1904	275
Baker	Golden Gate	Turk	Mar. 8, 1905	275
Baker	Oak	Page	April 19, 1905	275
Baker	Pacific avenue	Broadway	May 18, 1905	265
Birch avenue	Van Ness avenue	Westerly Term	April 25, 1905	220
Belvedere	Waller	Haight	May 24, 1905	275
Beaver	Noe	Castro	July 6, 1904	560
Bowie avenue	Eleventh	Northeast Term	Nov. 25, 1904	205
Cedar avenue	Octavia	Laguna	July 20, 1904	412' 6"
Chestnut	Hyde	Larkin	July 30, 1904	412' 6"
Castro	Jersey	Twenty-fifth	Dec. 15, 1904	228
Castro	Duboce avenue	Fourteenth	June 28, 1905	560
Central	Golden Gate ave.	Turk	Dec. 29, 1904	275
Central avenue	Grove	Fulton	Dec. 29, 1904	275
Central avenue	Crossing	Grove	Jan. 11, 1905	68' 9"
Church	Twenty-third	Twenty-fourth	Dec. 21, 1904	520
Church	Clipper	Twenty-sixth	Jan. 11, 1905	228
Church	Twenty-seventh	Duncan	Feb. 7, 1905	228
Church	Twenty-fourth	Jersey	Feb. 7, 1905	228
Church	Twenty-fifth	Clipper	Feb. 7, 1905	228
Church	Twenty-seventh	Army	Feb. 7, 1905	228
Church	Twenty-sixth	Army	June 15, 1905	228
Church	Crossing	Clipper	Feb. 7, 1905	82' 6"
Cherry	Clay	Washington	Mar. 14, 1905	255' 4 1/2"
Chattanooga	Twenty-first	Twenty-second	Aug. 19, 1904	520
Cole	Parnassus avenue	Grattan	May 18, 1905	245
Cole	Grattan	Alma	May 18, 1905	249' 11"
Cole	Crossing	Grattan	May 18, 1905	60
Clayton	Waller	Haight	July 30, 1904	275
Clayton	Frederick	Carl	Dec. 29, 1904	275
Clayton	Carl	Parnassus avenue	Dec. 29, 1904	275
Clayton	Crossing	Carl	Dec. 29, 1904	68' 9"
Chenery	Thirtieth	Randall	Oct. 27, 1904	800
Clement	Eighth avenue	Ninth avenue	Nov. 25, 1904	240
Clement	Seventh avenue	Eighth avenue	Dec. 21, 1904	240
Clement	Sixth avenue	Seventh avenue	Nov. 25, 1904	240
Clement	Fifth avenue	Sixth avenue	Dec. 21, 1904	240
Clement	Fourth avenue	Fifth avenue	Dec. 21, 1904	240
Clement	Third avenue	Fourth avenue	Feb. 2, 1905	240
Clement	Second avenue	Third avenue	Feb. 2, 1905	240
Clement	Crossing	Second avenue	Jan. 26, 1905	80
Clement	Crossing	Third avenue	Jan. 26, 1905	80
Clement	Crossing	Fourth avenue	Jan. 26, 1905	80
Clement	Crossing	Fifth avenue	April 25, 1905	80
Clement	Crossing	Sixth avenue	Jan. 26, 1905	80
Devisadero	Duboce avenue	Fourteenth	Oct. 5, 1904	560
Dore	Folsom	Northwest Term.	Jan. 11, 1905	275
Dore	Bryant	Brannan	May 18, 1905	550
Dolores	Twenty-second	Twenty-third	Dec. 15, 1904	520
Dorland	Church	Sanchez	June 25, 1904	565
Dorland	Guerrero	Dolores	Oct. 27, 1904	560
Duboce avenue	Market	Church	May 31, 1905	500
Eleventh avenue	H	I	Aug. 5, 1904	600
Elizabeth	Sanchez	Noe	Mar. 22, 1905	560
Elizabeth	Vicksburg	Sanchez	May 9, 1905	250
Filbert	Laguna	Buchanan	Nov. 25, 1904	412' 6"
Filbert	Crossing	Polk	June 15, 1905	68' 9"
Fourteenth	Alpine	Castro	Oct. 5, 180 4	418
Franklin	Greenwich	Lombard	July 30, 1904	275
Franklin	Filbert	Greenwich	Sept. 21, 1904	275
Franklin	Crossing	Greenwich	July 30, 1904	68' 9"
Fifth avenue	H	I	Aug. 19, 1904	600
Fifth avenue	Point Lobos	Clement	Feb. 7, 1905	600
Fifth avenue	Lake	Northerly Term.	Mar. 14, 1905	250
Fifth avenue	Clement	California	Apr. 19, 1905	600
Fifth avenue	California	Lake	June 28, 1905	500

ACCEPTED STREETS PAVED WITH BITUMINOUS ROCK—Continued

Street	From	To	Date	Lineal Feet
Fifth avenue.....	Crossing.....	Hugo.....	Aug. 19, 1904	70
Florida.....	Twenty-fifth.....	Twenty-sixth.....	Jan. 11, 1905	520
Florida.....	Twenty-fourth.....	Twenty-fifth.....	May 4, 1905	520
Florida.....	Crossing.....	Twentieth.....	Aug. 11, 1904	80
Frederick.....	Stanyan.....	Willard.....	Jan. 26, 1905	412' 6"
Frederick.....	Crossing.....	Willard.....	July 30, 1904	68' 9"
Fourth avenue.....	California.....	Lake.....	Feb. 7, 1905	467
Fourth avenue.....	Point Lobos.....	Clement.....	Mar. 14, 1905	600
Fourth avenue.....	Clement.....	California.....	May 2, 1905	600
Fourth avenue.....	Crossing.....	I.....	Oct. 5, 1904	80
Green.....	Webster.....	Fillmore.....	Aug. 19, 1904	412' 6"
Green.....	Devisadero.....	Broderick.....	Oct. 5, 1904	412' 6"
Green.....	Steiner.....	Pierce.....	Jan. 11, 1905	412' 6"
Green.....	Crossing.....	Webster.....	July 20, 1904	68' 9"
Green.....	Crossing.....	Fillmore.....	Aug. 19, 1904	68' 9"
Greenwich.....	Franklin.....	Gough.....	July 30, 1904	412' 6"
Greenwich.....	Van Ness avenue.....	Franklin.....	Aug. 19, 1904	384' 9"
Greenwich.....	Crossing.....	Franklin.....	July 30, 1904	68' 9"
Gordon.....	Harrison.....	Northerly Term.....	Oct. 13, 1904	240
Haight.....	Masonic avenue.....	Ashbury.....	July 30, 1904	381' 3"
Hermann.....	Market.....	Laguna.....	Mar. 8, 1905	69' 9 $\frac{1}{2}$ "
Hermann.....	Laguna.....	Buchanan.....	Mar. 8, 1905	412' 6"
Hickory avenue.....	Buchanan.....	Webster.....	Aug. 19, 1904	412' 6"
Hampshire.....	Twenty-second.....	Twenty-third.....	Feb. 15, 1905	520
Hooper.....	Seventh.....	Eighth.....	July 30, 1904	70
Hartford.....	Eighteenth.....	Nineteenth.....	July 5, 1904	520
Hugo.....	First avenue.....	Second avenue.....	Oct. 5, 1904	240
Hugo.....	Second avenue.....	Third avenue.....	April 25, 1905	240
Hugo.....	Third avenue.....	Fourth avenue.....	Mar. 23, 1905	240
Hugo.....	Fifth avenue.....	Sixth avenue.....	Aug. 19, 1904	240
Hugo.....	Sixth avenue.....	Seventh avenue.....	Aug. 19, 1904	240
Hugo.....	Crossing.....	Second avenue.....	Mar. 8, 1905	70
Hugo.....	Crossing.....	Fourth avenue.....	Mar. 23, 1905	70
H.....	Intersection.....	Ninth avenue.....	April 14, 1905	80
I.....	First avenue.....	Second avenue.....	Oct. 13, 1904	240
I.....	Second avenue.....	Third avenue.....	Oct. 13, 1904	240
I.....	Crossing.....	Third avenue.....	Oct. 13, 1904	80
I.....	Third avenue.....	Fourth avenue.....	Mar. 28, 1905	240
I.....	Fourth avenue.....	Fifth avenue.....	Oct. 5, 1904	240
I.....	Fifth avenue.....	Sixth avenue.....	Aug. 19, 1904	240
I.....	Sixth avenue.....	Seventh avenue.....	Aug. 19, 1904	240
I.....	Ninth avenue.....	Tenth avenue.....	Dec. 21, 1904	240
I.....	Tenth avenue.....	Eleventh avenue.....	Dec. 21, 1904	240
I.....	Crossing.....	Second avenue.....	Oct. 13, 1904	80
I.....	Crossing.....	Third avenue.....	Oct. 13, 1904	80
I.....	Crossing.....	Fifth avenue.....	Aug. 19, 1904	80
I.....	Crossing.....	Sixth avenue.....	Aug. 19, 1904	80
I.....	Crossing.....	Ninth avenue.....	April 14, 1905	80
Jersey.....	Castro.....	Diamond.....	Oct. 27, 1904	560
Jersey.....	Crossing.....	Castro.....	Mar. 8, 1905	80
Laguna.....	Union.....	Filbert.....	Sept. 21, 1904	275
Laguna.....	Washington.....	Jackson.....	Dec. 29, 1904	275
Laguna.....	Waller.....	Hermann.....	Mar. 8, 1905	275
Laguna.....	Hermann.....	Market.....	Mar. 8, 1905	100
Laguna.....	Crossing.....	Waller.....	Mar. 8, 1905	68' 9"
Lyon.....	McAllister.....	Golden Gate.....	Dec. 21, 1904	275
Leroy Place.....	Sacramento.....	Southerly Term.....	May 2, 1905	127' 6"
Lake.....	Second avenue.....	Third avenue.....	June 15, 1905	240
Lake.....	Third avenue.....	Fourth avenue.....	June 15, 1905	240
Lake.....	Fourth avenue.....	Fifth avenue.....	June 15, 1905	240
Lake.....	Crossing.....	Third avenue.....	June 15, 1905	80
Lake.....	Intersection.....	Fourth avenue.....	June 15, 1905	80
Mason.....	North Point.....	Beach.....	Jan. 11, 1905	275
Maple.....	Clay.....	Washington.....	April 14, 1905	255' 4 $\frac{1}{2}$ "
Maple.....	Crossing.....	Washington.....	April 14, 1905	68' 9"
Mission.....	Onondaga.....	County line.....	Oct. 27, 1904	7300
Noe.....	Twenty-third.....	Twenty-fourth.....	Oct. 13, 1904	520
Noe.....	Crossing.....	Elizabeth.....	Oct. 13, 1904	82' 6"
Ninth avenue.....	H.....	I.....	July 5, 1904	600
Pacific avenue.....	Octavia.....	Laguna.....	Sept. 3, 1904	412' 6"
Pacific avenue.....	Gough.....	Octavia.....	Mar. 14, 1905	412' 6"
Pacific avenue.....	Crossing.....	Laguna.....	Sept. 3, 1904	68' 9"

ACCEPTED STREETS PAVED WITH BITUMINOUS ROCK—Continued.

Street	From	To	Date	Lineal Feet
Polk.....	Filbert.....	Greenwich.....	April 19, 1905	275
Pierce.....	Vallejo.....	Green.....	Dec. 29, 1904	275
Potrero avenue...	Mariposa.....	Twentieth.....	July 5, 1904	1440
Potrero avenue...	Crossing.....	Mariposa.....	July 5, 1904	100
Sanchez.....	Twenty-third.....	Twenty-fourth.....	April 19, 1905	488
Sanchez.....	Crossing.....	Elizabeth.....	April 19, 1905	82' 6"
Stevenson.....	Tenth.....	Easterly Term.....	Mar. 23, 1905	230
Shrader.....	Carl.....	Parnassus.....	June 15, 1905	275
Scott.....	Fulton.....	McAllister.....	Dec. 29, 1904	275
Scott.....	Intersection.....	Grove.....	June 15, 1905	68' 9"
Sixth avenue.....	H.....	I.....	Aug. 19, 1904	600
Sixth avenue.....	Clement.....	Point Lobos.....	May 9, 1905	600
Sixth avenue.....	California.....	Lake.....	May 24, 1905	533
Sixth avenue.....	Crossing.....	Hugo.....	Aug. 19, 1904	70
Second avenue.....	Hugo.....	I.....	Mar. 28, 1905	270
Tenth avenue.....	H.....	I.....	July 20, 1904	600
Third avenue.....	California.....	Lake.....	Jan. 26, 1905	444
Third avenue.....	Hugo.....	I.....	Mar. 8, 1905	270
Third avenue.....	H.....	Hugo.....	June 21, 1905	270
Twenty-first.....	Valencia.....	Guerrero.....	July 20, 1904	560
Twenty-fifth.....	San Bruno avenue.....	Vermont.....	Sept. 21, 1904	228
Twenty-fifth.....	Utah.....	San Bruno avenue.....	Sept. 21, 1904	228
Twenty-fifth.....	Folsom.....	Treat avenue.....	Mar. 8, 1905	245
Twenty-fifth.....	Harrison.....	Florida.....	June 15, 1905	460
Twenty-fifth.....	Florida.....	Bryant.....	June 15, 1905	200
Twenty-fifth.....	Bryant.....	York.....	June 15, 1905	200
Twenty-fifth.....	Crossing.....	Vermont.....	Sept. 21, 1904	80
Twenty-fifth.....	Crossing.....	Fair Oaks.....	Nov. 25, 1904	50
Twenty-fifth.....	Crossing.....	Garfield avenue.....	Mar. 8, 1905	50
Twenty-fifth.....	Crossing.....	Florida.....	June 15, 1905	60
Twenty-seventh.....	Guerrero.....	San Jose avenue.....	June 28, 1905	82' 6"
Twenty-fourth.....	Utah.....	San Bruno avenue.....	May 24, 1905	228
Twenty-fourth.....	San Bruno avenue.....	Vermont.....	May 24, 1905	228
Twenty-fourth.....	Crossing.....	Fair Oaks.....	Nov. 25, 1904	64
Twenty-fourth.....	Crossing.....	San Bruno avenue.....	May 24, 1905	64
Vallejo.....	Steiner.....	Pierce.....	Sept. 21, 1904	412' 6"
Vallejo.....	Broderick.....	Baker.....	May 18, 1905	412' 6"
Valencia.....	Twenty-sixth.....	Army.....	May 24, 1905	228
Vermont.....	Twenty-fourth.....	Twenty-fifth.....	Sept. 21, 1904	240
Washington.....	First avenue.....	Cherry.....	Oct. 27, 1904	549' 6"
Washington.....	Maple.....	Cherry.....	May 24, 1905	412' 6"
Waller.....	Ashbury.....	Clayton.....	July 30, 1904	432' 6"
Waller.....	Cole.....	Shrader.....	Mar. 22, 1905	268' 4½"
Willey avenue.....	Webster.....	Fillmore.....	May 31, 1905	412' 6"
Wetmore Place..	Clay.....	Washington.....	Sept. 21, 1904	275

ACCEPTED STREETS FROM JULY 1, 1904, TO JULY 1, 1905, PAVED WITH
BASALT BLOCKS.

Street	From	To	Date	Lineal feet
Baker.....	Golden Gate avenue	Turk.....	Mar. 8, 1905	275
Baker.....	Oak.....	Page.....	April 19, 1905	275
Baker.....	Pacific avenue.....	Broadway.....	May 18, 1905	265' 2 1/2"
Green.....	Crossing.....	Fillmore.....	Aug. 19, 1904	68' 9"
Laguna.....	Washington.....	Jackson.....	Dec. 29, 1904	275
Laguna.....	Waller.....	Hermann.....	Mar. 8, 1905	275
Laguna.....	Hermann.....	Market.....	Mar. 8, 1905	100
Lily avenue.....	Buchanan.....	Laguna.....	May 31, 1905	100
Montgomery.....	Chestnut.....	Francisco.....	Mar. 23, 1905	275
Pierce.....	Vallejo.....	Green.....	Dec. 29, 1904	275
Sanchez.....	Elizabeth.....	Twenty-fourth.....	April 19, 1905	228
Vallejo.....	Devisadero.....	Broderick.....	Jan. 11, 1905	412' 6"
Valencia.....	Twenty-second.....	Twenty-third.....	May 24, 1905	520
Valencia.....	Crossing.....	Eighteenth.....	May 24, 1905	82' 6"
Valencia.....	Crossing.....	Nineteenth.....	May 24, 1905	82' 6"
Valencia.....	Crossing.....	Twenty-fifth.....	May 24, 1905	82' 6"

ACCEPTED STREETS FROM JULY 1, 1904, TO JULY 1, 1905, PAVED WITH
COBBLE STONES.

Street	From	To	Date	Lineal feet
Broderick.....	Broadway.....	Vallejo.....	Mar. 8, 1905	275

MAINTENANCE OF COUNTY ROADS.

Spread rock, rolled, watered and repaired the roadways of:
Corbett avenue from Seventeenth street to Dewey boulevard and Ocean, San Jose,
San Bruno and Buena Vista avenues.
Repaired View avenue between Twenty-first and Twenty-second streets.
Removed sand, spread rock and cut down cactus and weeds growing on Nine-
teenth avenue boulevard.
Thirty-second avenue and I street—Cleared roadway of clay that caved off the
hillside on to the new road to Pest House.
Repaired washouts and kept gutters clean on San Jose and Ocean avenues.
Built roadway for Fire Department on Tennessee street between Twenty-first and
Twenty-second streets.
Constructed culverts on San Bruno avenue and Corbett road.
Sprinkled and macadamized Point Lobos, Ocean, San Bruno and San Jose avenues.

REPAIRS TO PLANK ROADWAYS AND CARPENTER WORK.

This work is mainly upon those portions of the planked streets along the water
front under the jurisdiction of the City.
The work was performed by the employees of the Bureau of Streets.
The principal repair work was performed on the following streets:
Repaired and replanked the roadways of—
Bryant street between Main and Spear streets.
Steuart street between Folsom and Harrison streets.
Brannan street between Fremont and First streets.
Spear street between Bryant and Harrison streets.
Folsom street between Steuart and East streets.
Reconstructed 85 feet of 12-inch box sewer on Caledonia avenue. This sewer
was condemned by Board of Health and repairs were only temporary.
Repaired culvert on Mission road.
Constructed an octagon shaped box around the concrete pier that Sixth street
bridge turns on, for the purpose of preventing driftwood interfering with machinery.
Constructed 130 feet of fence with sliding gate in the center on the northeasterly
line of Sixteenth street Corporation Yard.

- Constructed 100 feet of 12-inch box sewer as a relief outlet at the intersection of Seventh, Sixteenth and Mississippi streets.
- Repaired approach on south side of Sixth street bridge.
- Constructed 130 feet of bulkhead on east side of San Jose avenue near Sunnyside.
- Constructed bulkhead on San Jose avenue near Sunnyside.
- Constructed box sewer at foot of Fillmore street.
- Replanked entire surface of Sixth street bridge.
- Constructed bulkhead in front of city lot on north side of Jackson street between Scott and Devisadero streets.
- Replanked bridge at Geneva and San Jose avenues.
- Repaired fence overlooking bluff at the southerly line of the crossing of Bryant and First streets.
- Repaired bulkheads at the crossings of Bryant and Main and Spear streets.

STREET SWEEPING AND SPRINKLING.

The following schedule presents the number of wagon loads of sweepings removed from the streets of the City, and the number of loads deposited in the bunkers for each month of the fiscal year:

MONTH.	Removed from Streets.	Deposited in Bunkers.
1904—July.....	2,787 loads.	1,633 loads.
August.....	2,860 loads.	1,642 loads.
September.....	2,543 loads.	1,442 loads.
October.....	2,593 loads.	1,481 loads.
November.....	2,496 loads.	1,317 loads.
December.....	2,142 loads.	1,184 loads.
1905—January.....	1,690 loads.	1,035 loads.
February.....	1,302 loads.	898 loads.
March.....	2,638 loads.	1,685 loads.
April.....	3,231 loads.	1,669 loads.
May.....	3,250 loads.	1,721 loads.
June.....	2,480 loads.	1,478 loads.
Totals.....	30,012 loads.	17,185 loads.

The following statement presents the number of cubic yards of street sweepings transported to Golden Gate Park on the cars of the United Railroads for each month of the fiscal year:

Month.	Cubic Yards.
1904—July.....	4,984
August.....	4,814
September.....	3,926
October.....	4,064
November.....	3,822
December.....	2,748
1905—January.....	2,320
February.....	2,260
March.....	4,578
April.....	5,258
May.....	5,472
June.....	5,320
Total.....	49,566

The following is a statement of the cost of street sweeping and sprinkling for each month of the fiscal year:

Month.	Cost of Sweeping and Sprinkling.
1904—July.....	\$ 21,675.73
August.....	22,779.53
September.....	20,061.82
October.....	19,448.91
November.....	19,170.40
December.....	17,345.88
1905—January.....	12,610.59
February.....	9,248.37½
March.....	14,325.50
April.....	16,885.49½
May.....	18,804.56½
June.....	15,946.55
Total.....	\$208,303.34½

COMPARATIVE STATEMENT SHOWING AMOUNT OF MONEYS RECEIVED
BY CASHIER BOARD OF PUBLIC WORKS DURING THE FISCAL
YEARS 1901-02, 1902-03, 1903-04, 1904-05.

RECEIPTS FROM.	FISCAL YEARS.			
	1901-02.	1902-03.	1903-04.	1904-05.
Street Space Permits.....	\$26,485.00	\$40,745.00	\$46,365.00	\$55,665.00
Sidewalk Permits.....	3,395.00	6,520.00	7,370.00	11,060.00
Sub-Sidewalk Permits.....	2,765.00	3,600.00	2,560.00	3,120.00
Asphalt Kettle Permits.....	.....	1,110.00	2,850.00	4,150.00
Side-sewer Deposits.....	29,284.85	51,010.00	65,961.50	76,831.00
Balances due on Side-sewers underestimated.....	.....	3,884.91	1,894.65	2,486.89
House-Moving Permits.....	3,225.00	3,555.00	3,855.00	3,135.00
House-Building Permits (fees).....	14,411.00	17,793.00	21,339.50	23,856.00
Advertising charges.....	121.55	1,068.00	2,008.35	2,620.70
Sale of old material.....	256.85	390.50	53.40	1,044.00
Bureau of Engineering (fees).....	.....	.....	17,192.00	22,910.50
Miscellaneous.....	.....	188.26	87.90	2.00
Total.....	\$79,944.25	\$129,864.67	\$171,537.30	\$206,881.09
		Increase over 1901-2.	Increase over 1901-2.	Increase over 1901-2.
		\$49,920.42	\$91,593.05	\$126,936.84
			Increase over 1902-3.	Increase over 1902-3.
			\$41,672.63	\$77,016.42
				Increase over 1903-4.
				\$35,343.79

REPORT OF CASHIER.

STATEMENT SHOWING AMOUNT OF MONEYS RECEIVED FROM ALL
SOURCES, AND DISBURSEMENTS FROM SAME—FISCAL
YEAR 1904-1905.

Permits Issued.	Receipts.	
2,782 from Street Space Permits.....		\$55,665.00
387 from Street Space (Asphalt Kettle) Permits.....		4,150.00
529 from Sidewalk Permits.....		11,060.00
50 from Sub-Sidewalk Permits.....		3,120.00
54 from House-Moving Permits.....		3,135.00
2,816 from House Building Permits.....		23,856.00
Receipts Issued.		
2,124 from Side-sewer deposits (2,332 sewers).....		76,831.00
201 from balances due City and County on 201 side-sewers underestimated		2,486.89
1,269 from Bureau of Engineering (fees collected as per official receipts)...		22,910.50
98 from advertising charges.....		2,620.70
3 from sale of old material.....		1,044.00
from miscellaneous.....		2.00
10,313	Total.....	\$206,881.09

DEPOSITS WITH CITY AND COUNTY TREASURER (AS PER RECEIPTS)
TO THE CREDIT OF

Special Permit Fund.....	\$73,995.00
Tearing Up Streets Fund.....	79,317.89
House Moving Fund.....	3,135.00
General Fund.....	23,856.00
Unapportioned Fee Fund.....	22,910.50
Advertising Fund.....	2,620.70
General Fund (sale of old material).....	1,044.00
General Fund (miscellaneous).....	2.00
Total.....	\$206,881.09

DISBURSEMENTS BY DEMANDS UPON CITY AND COUNTY TREASURER—
FISCAL YEAR 1904-1905.

Demands Issued.	SPECIAL PERMIT FUND.	
2,892 Deposits returned on Street Space Permits.....		\$58,075.00
402 Deposits returned on Street Space (Kettle) Permits....		4,350.00
524 Deposits returned on Sidewalk Permits.....		10,970.00
45 Deposits returned on Sub-Sidewalk Permits.....		2,960.00
3,863 Demands, amounting to.....		\$76,355.00

TEARING UP STREETS FUND.

1,898 Demands issued to depositors for balances unexpended on Side sewer-Deposits.....	\$24,933.31
23 Demands issued for concrete and bitumen repairs over side-sewer trenches.....	4,628.04
9 Demands issued for material, etc.....	281.02
13 Demands issued for horse and buggy hire.....	418.15
674 Demands issued for wages and teaming side-sewer construction (as per pay-roll)....	48,746.95
	\$79,007.47

HOUSE-MOVING FUND.

56 Demands issued for return of deposits on House Moving Permits..	3,285.00	
6,536	Total.....	\$158,647.47

BUREAU OF STREETS.

San Francisco, July 1st, 1905.

The receipts from permits of various kinds, fees, charges and deposits of every nature received in the Bureau of Streets, Department of Public Works, during the fiscal year 1904-5, amounted to \$160,114.59 as against

\$133,005.80 in 1903-4.

112,071.67 in 1902-3.

65,533.25 in 1901-2.

The collections as above set forth show an increase in the receipts for the fiscal year ending June 30, 1905, over those of

Fiscal year 1903-4 of \$27,108.79—an increase of 20.7%.

Fiscal year 1902-3 of \$48,042.92—an increase of 42.8%.

Fiscal year 1901-2 of \$94,581.34—an increase of 144.3%.

The above figures comprise the amounts collected in the Bureau of Streets only, and are exclusive of fees collected in the Bureau of Building, and the Bureau of Engineering. Considering the fact that practically the entire amount received in the Bureau of Streets is refunded to depositors by demands drawn upon the City and County Treasurer, the increased clerical work necessary has so far been satisfactorily accomplished without any increase in the clerical force connected with the Cashier's office.

BUREAU OF BUILDING.

The receipts from fees for building permits for 1904-5 amounted to \$23,856.00, as against a

Total of \$21,339.50 for 1903-4—an increase of \$4,516.50.

Total of \$17,793.00 for 1902-3—an increase of \$6,063.00.

Total of \$14,411.00 for 1901-2—an increase of \$9,445.00.

The above represents fees collected on work the estimated value of which is \$500.00 and over.

No fee is charged on building operations, the estimated value of which is under \$500.

BUREAU OF ENGINEERING.

Prior to July 1st, 1903, the fees collected by Bureau of Engineering were deposited in the City and County Treasury direct from the office of said Bureau.

The total amount received during fiscal year 1904-5 and turned over to Cashier Board of Public Works, for lot surveys, etc., was \$22,910.50, as against \$17,192.00 in 1903-4—an increase of \$5,718.50.

Respectfully submitted,

J. J. DONAHUE,

Cashier Board of Public Works.

Bureau of Light and Water

San Francisco, Cal., Jan. 8, 1906.

To the Honorable the Board of Public Works,
Of the City and County of San Francisco.

Gentlemen—I hand you herewith the annual report of the Bureau of Light and Water for the fiscal year ending June 30, 1905.

Very respectfully,

O. M. TUPPER,

Light and Water Inspector.

COST OF MAINTAINING BUREAU OF LIGHT AND WATER.

Salary of Inspector.....	\$1,800.00	
Welsbach supplies.....	1,032.65	
Incandescent lights.....	627.80	
Horse and buggy.....	387.00	
Gas "arcs".....	38.25	
Sundries.....	31.97	
Chimneys.....	17.50	
Matches.....	2.35	
		<u>\$3,936.52</u>
Appropriation.....		3,970.00
Surplus.....		33.48

The Welsbach supplies furnished above, supplied all of the public buildings in the City and County (excepting school buildings) and for the ornamental gas lamps around the City Hall. If these lights were furnished by the Gas Company, under their contract, they would have cost the City and County \$2,286 or over \$1,000 more than the amount spent for Welsbach supplies.

COST OF LIGHTING STREETS AND PUBLIC BUILDINGS.

The Board of Supervisors made a contract with the San Francisco Gas and Electric Company whereby the Gas Company lighted the streets with 5,350 gas lamps and 1,100 arc lights and lighted all of the Public Buildings (except School Buildings) for the sum of \$320,000, or \$26,666.66 per month.

COST OF LIGHTING AND AMOUNT DEDUCTED FOR LIGHTS NOT LIGHTED.

MONTH	Contract price	Amt. deducted account lights not lighted	Net cost
1905—July.....	\$26,666.66	\$166.00	\$26,500.66
August.....	26,666.66	148.76	26,517.90
September.....	26,666.66	191.37	26,475.29
October.....	26,666.66	248.25	26,418.41
November.....	26,666.66	270.38	26,396.28
December.....	26,666.66	123.00	26,543.66
January.....	26,666.66	179.22	26,487.44
February.....	26,666.66	180.20	26,486.46
March.....	26,666.66	205.68	26,460.98
April.....	26,666.66	112.97	26,553.69
May.....	26,666.66	145.25	26,521.41
June.....	26,666.66	158.58	26,508.08
		\$2,129.66	\$317,870.26

BILLS PAID OUT OF OUTAGE.

San Francisco Gas & Electric Co.....	\$178.50	
Bennett Bros., incandescent lights.....	80.54	
Bennett Bros., quicksilver.....	42.50	
S. F. G. & E. Co., repairs.....	50.70	
Lighting dome, in excess of the twelve nights contracted for....	300.00	
Carriage hire, artificial light committee.....	17.50	
Lighting 20 naphtha lights in Carville.....	548.00	
Lamp lighter.....	900.00	
		<u>\$2,117.74</u>
Appropriation.....		\$319,988.00
Surplus.....		320,000.00
		12.00

LIST OF ARC" LIGHTS ERECTED DURING THE YEAR 1904-1905.

Ridge Lane and San Miguel	Lyon and Filbert
Baker and Jefferson	Market and Duboce
Eighteenth and Minnesota.	Lafayette Square
Webster and Francisco	Vallejo and Broderick
Twenty-ninth avenue South and "K" st	Amazon and Lisbon
Second avenue and Fulton	Seventh avenue and "B" street
Cook and St. Rose street	Haight and Fillmore
Third avenue and Lake	Ninth and Howard
Twelfth avenue and Lake	Twenty-sixth and Bryant avenue
Twenty-sixth avenue and Lake	Tenth and Harrison
Twenty-seventh avenue and California	Duboce and Noe
Thirty-seventh and Point Lobos	Battery and Washington
Thirty-ninth and Point Lobos	Sansome and Washington
Thirty-fifth and Point Lobos	Eighth avenue and California
Sixteenth and Flint	"A" street and Second avenue
Crescent avenue and Ellsworth	Eighth avenue and Fulton
Army and Harrison	Vallejo and Steiner
Powell and Green	Sixteenth avenue south and "L" street
Seventh avenue and "C" street	Thirteenth avenue south and "M" street
Harrison and Norwich	Nineteenth and San Bruno
Rutledge and Peralta avenue	Nineteenth and Rhode Island
Army and Condon	Utah and Seventeenth
Ryan avenue and Peralta avenue	Alms House Rd. 600 ft. S. of "K"
Hayes and Stanyan	Alms House Rd. 1200 ft. S. of "K"
Twenty-fourth and Diamond	Alms House Rd. 1800 ft. S. of "K"
Clipper and Douglass	Alms House Rd. 2400 ft. S. of "K" 2
Brazil and Athens	Alms House Rd. 3000 ft. S. of "K"
China and Athens	Alms House Rd. 3600 ft. S. of "K" 2
Brazil and Paris	"H" street and First avenue
Croke, East of Allemany	"H" street and Third avenue
Ashbury bet. Frederick and Sixteenth	Jones and Filbert
Valley and Dolores	Scott and Waller
Lotta, South of Parnassus	California and Esmeralda
Powell and Bay	Seventeenth and Clement
Taylor and Bay	Baker and Vallejo
N. Willard and Fulton	Waller and Buena Vista
Polk and Bay	Lombard and Webster
Thirteenth and Devisadero	Washington and Locust
Broderick and Green	Tenth avenue and California
Laguna and Broadway	Dame south of Thirtieth
Powell and Washington	Kansas and Mariposa
Bay and Van Ness	Folsom and Precita
Greenwich and Van Ness	Fifteenth and Castro
North and Holly Park avenues	Golden Gate and Masonic
Sixth avenue south and "L" street	Clayton and Parnassus
Dolores and Fourteenth streets	Jefferson Square
Grove and Cole	Washington and Drumm
Blake north of Point Lobos	Utah and Mariposa
Humboldt and Georgia	

Total, 97 lights.

GAS LAMPS ERECTED DURING THE YEAR 1904-05.

E. S. Noe S. of Market.....	1 lamp
S. S. Sixteenth between Prosper and Pond.....	6 "
E. S. Buena Vista S. of Haight.....	1 "
E. S. Fillmore N. of Fulton.....	1 "
W. S. Franklin S. of Vallejo.....	1 "
Hayes from Van Ness to Laguna.....	24 "
N. S. Green W. of Franklin.....	1 "
S. S. Green E. of Gough.....	1 "
E. S. Webster between Union and Green.....	1 "
August Alley near Green.....	1 "
W. S. Tenth S. of Howard.....	2 "
E. S. Russ N. of Folsom.....	2 "
N. S. Market E. of Larkin.....	3 "
W. S. Guerrero N. of Twenty-third.....	3 "
E. S. Tenth N. of Mission.....	1 "
E. S. Tenth S. of Mission.....	1 "
E. S. Tenth S. of Howard.....	1 "
W. S. Tenth N. of Harrison.....	1 "
S. S. Harrison W. of Tenth.....	1 "

GAS LAMPS ERECTED DURING THE YEAR—Continued.

W. S. Tenth S. of Harrison.....	1	"
S. S. Harrison E. of Eleventh.....	1	"
S. S. Harrison W. of Eleventh.....	1	"
E. S. Twelfth N. of Harrison.....	1	"
E. S. Twelfth S. of Market.....	1	"
N. S. Harrison between First and Fremont.....	1	"
E. S. Webster between Eddy and Ellis.....	1	"
S. S. Elliott Park W. of Steiner.....	1	"
N. S. Sacramento W. of Van Ness.....	1	"
N. S. Broadway E. of Van Ness.....	1	"
N. S. Ash E. of Buchanan.....	1	"
S. S. Ivy E. of Webster.....	1	"
S. S. Lily avenue W. of Laguna.....	1	"
S. S. Sycamore avenue W. of San Carlos.....	1	"
W. S. San Carlos between Sycamore and Eighteenth.....	1	"
N. S. O'Farrell W. of Van Ness.....	1	"
N. S. O'Farrell E. of Van Ness.....	1	"
N. S. Sacramento E. of Van Ness.....	1	"
S. S. Green W. of Van Ness.....	1	"
N. S. Green E. of Polk.....	1	"
S. S. Fourteenth W. of Harrison.....	1	"
N. W. corner Sixth avenue and Hugo.....	1	"
S. W. corner Sixth avenue and "H" street.....	1	"
S. S. Lily avenue E. of Laguna.....	1	"
E. S. Polk between Grove and Fulton.....	1	"
N. S. Grove E. of Polk.....	1	"
N. S. Fulton E. of Polk.....	1	"
E. S. Sixth avenue between "H" and Hugo.....	1	"
S. S. Dorland W. of Dolores.....	1	"
N. S. Dorland E. of Church.....	1	"
S. S. Fourteenth E. of Folsom.....	1	"
N. E. corner Sixth avenue and "I" street.....	1	"
N. S. Twenty-third between Mission and Bartlett.....	1	"
N. S. Twenty-third between Mission and Capp.....	1	"
N. S. Twenty-third between Howard and Capp.....	1	"
N. S. Twenty-third between Howard and Shotwell.....	1	"
W. S. Castro N. of Twentieth.....	1	"
W. S. Castro S. of Twentieth.....	1	"
N. E. corner Castro and Twentieth.....	1	"
N. E. corner Castro and Liberty.....	1	"
N. S. Twenty-fourth between Mission and Bartlett.....	1	"
N. S. Twenty-fourth between Capp and Howard.....	1	"
N. S. Twenty-fourth between Shotwell and Howard.....	1	"
S. S. Dorland E. of Sanchez.....	1	"
N. S. Dorland W. of Church.....	1	"
N. S. Twenty-second between Howard and Capp.....	1	"
N. S. Twenty-second between Howard and Shotwell.....	1	"
N. S. Twentieth between Howard and Shotwell.....	1	"
N. S. Nineteenth between Howard and Shotwell.....	1	"
N. S. Nineteenth between Howard and Capp.....	1	"
N. S. Nineteenth between Mission and Capp.....	1	"
N. S. Twenty-fifth between Mission and Bartlett.....	1	"
N. S. Twenty-fifth between Mission and Capp.....	1	"
N. S. Twenty-fifth between Howard and Capp.....	1	"
N. S. Twenty-fifth between Howard and Shotwell.....	1	"
N. S. Eighteenth between Howard and Capp.....	1	"
N. S. Eighteenth between Mission and Capp.....	1	"
W. S. Treat avenue S. of Twenty-third.....	1	"
E. S. Eighth avenue S. of "H" street.....	1	"
E. S. Ninth avenue N. of "J" street.....	1	"
E. S. Ninth avenue S. of "M" street.....	1	"
W. S. Ninth avenue N. of "N" street.....	1	"
N. W. corner Sixteenth avenue and "J" street.....	1	"
W. S. Kimball Place S. of Sacramento.....	1	"
S. S. Perrine Place N. of Steiner.....	1	"
E. S. Steiner between Post and Sutter.....	1	"
S. S. Locust W. of Franklin.....	1	"
N. S. Twentieth E. of Church.....	1	"
N. S. Twenty-fourth between Mission and Capp.....	1	"
S. S. Winter Lane E. of Mason.....	1	"
E. S. Eureka S. of Seventeenth.....	1	"
E. S. Noe N. of Nineteenth.....	1	"
S. W. corner Sutter and Mason.....	1	"
N. S. Sutter E. of Mason.....	1	"

GAS LAMPS ERECTED DURING THE YEAR—Continued.

N. W. corner Sutter and Powell.....	1	"
N. S. Sutter W. of Mason.....	1	"
S. S. Sutter W. of Powell.....	1	"
S. S. Sutter E. of Powell.....	1	"
E. S. Powell between Post and Sutter.....	1	"
W. S. Walter N. of Fourteenth.....	1	"
N. S. Fourteenth between Walter and Noe.....	1	"
N. S. Ivy avenue W. of Buchanan.....	1	"
N. S. Ivy avenue E. of Buchanan.....	1	"
N. S. Seventeenth between Howard and Shotwell.....	1	"
N. S. Seventeenth between Howard and Capp.....	1	"
S. S. Juri W. of San Jose.....	1	"
E. S. First N. of Harrison.....	1	"
E. S. First S. of Folsom.....	1	"
N. S. Mission between Spear and Main.....	1	"
E. S. First N. of Folsom.....	1	"
E. S. First S. of Howard.....	1	"
S. S. Broadway W. of Stockton.....	1	"
N. S. Mission W. of First.....	1	"
N. S. Mission between Beale and Fremont.....	1	"
S. S. Sacramento W. of Fillmore.....	1	"
W. S. Dore S. of Howard.....	1	"
E. S. Dore N. of Folsom.....	1	"
S. S. Minna W. of Tenth.....	1	"
N. S. Fourteenth W. of Valencia.....	1	"
E. S. Alabama N. of Twenty-first.....	1	"
W. S. Alabama S. of Twentieth.....	1	"
New Montgomery and Market.....	3	"
N. S. Hugo between Fifth and Sixth avenue.....	1	"
S. E. corner Hugo and Sixth avenue.....	1	"
S. W. corner "H" and Eighth avenue.....	1	"
S. E. corner "I" and Twentieth avenue.....	1	"
W. S. Nineteenth avenue. s. of "I" street.....	1	"
N. S. Hugo between Sixth and Seventh avenue.....	1	"
Opera Alley.....	1	"
S. E. corner "H" street and Twentieth avenue.....	1	"

GAS LAMPS ERECTED DURING THE YEAR 1904-05.

W. S. Twentieth S. of "H" street.....	1	lamp
N. S. Jackson E. of Fillmore.....	1	"
N. S. Howard between First and Fremont.....	1	"
N. S. Howard between Beale and Fremont.....	1	"
N. S. Howard between Beale and Main.....	1	"
E. S. Beale S. of Howard.....	1	"
E. S. Beale N. of Folsom.....	1	"
E. S. Main N. of Howard.....	1	"
E. S. Main S. of Mission.....	1	"
E. S. Main S. of Howard.....	1	"
E. S. Main N. of Folsom.....	1	"
N. S. Howard between Main and Spear.....	1	"
E. S. Main S. of Market.....	1	"
E. S. Main N. of Mission.....	1	"
E. S. Spear S. of Howard.....	1	"
S. S. Pacific avenue W. of Scott.....	1	"
E. S. Beale N. of Harrison.....	1	"
E. S. Spear N. of Harrison.....	1	"
E. S. Spear S. of Mission.....	1	"
E. S. Crocker between Colton and W. Mission.....	1	"
S. E. corner Crocker and Stevenson.....	1	"
E. S. Spear S. of Folsom.....	1	"
W. S. Spear N. of Folsom.....	1	"
N. S. Howard between Spear and Stuart.....	1	"
E. S. Stuart S. of Market.....	1	"
E. S. Stuart N. of Mission.....	1	"
W. S. First S. of Mission.....	1	"
S. S. Jackson W. of Fillmore.....	1	"
N. E. corner Miles Place and Sacramento.....	1	"
N. W. corner Elizabeth and Sanchez.....	1	"
N. W. corner Nineteenth and Eureka.....	1	"
E. S. Hawthorne N. of Folsom.....	1	"
N. S. Ash avenue E. of Laguna.....	1	"

GAS LAMPS ERECTED DURING THE YEAR—Continued.

N. S. Fourteenth W. of Noe.....	1 lamp
N. S. Elizabeth W. of Noe.....	1 "
N. S. Elizabeth E. of Castro.....	1 "
S. W. corner Elizabeth and Castro.....	1 "
N. E. corner Landers and Fifteenth.....	1 "
S. E. corner Landers and Fourteenth.....	1 "
N. S. Pine W. of Montgomery.....	1 "
S. S. Lombard E. of Scott.....	1 "
S. S. "O" between Nineteenth and Twentieth avenue.....	1 "
E. S. Cole opposite Beulah.....	1 "
W. S. Shrader between Page and Haight.....	1 "
N. S. Page W. of Shrader.....	1 "
N. S. Page E. of Shrader.....	1 "
S. W. corner Page and Shrader.....	1 "
N. S. Moulton W. of Fillmore.....	1 "
W. S. Shrader between Page and Oak.....	1 "
W. S. Shrader between Haight and Waller.....	1 "
N. S. Washington E. of Fillmore.....	1 "
N. S. Market E. of Montgomery.....	3 "
Grand Opera Alley.....	1 "
N. W. corner Fillmore and Chestnut.....	1 "
N. W. corner Frederick and Shrader.....	1 "
N. W. corner Page and Cole.....	1 "
S. W. corner Vicksburg and Twenty-third.....	1 "
S. S. Page W. of Cole.....	1 "
S. S. Page E. of Cole.....	1 "
W. S. Gordon N. of Harrison.....	1 "
E. S. Fair Oaks N. of Twenty-second.....	1 "
E. S. Washington between Clay and Lyon.....	1 "
W. S. Masonic avenue between Fell and Hayes.....	1 "
N. S. Fell W. of Masonic avenue.....	1 "
N. S. Fell E. of Masonic avenue.....	1 "
E. S. Valencia S. of Army.....	1 "
W. S. Valencia S. of Army.....	1 "
W. S. Dolores N. of Fifteenth.....	1 "
E. S. Dolores 300 feet N. of Fifteenth.....	1 "
N. W. corner Army and Guerrero.....	1 "
N. S. California W. of Locust.....	1 "
N. E. corner Twentieth and Sanchez.....	1 "
N. S. California E. of Spruce.....	1 "
S. S. Twentieth E. of Sanchez.....	1 "
N. S. Twentieth W. of Church.....	1 "
W. S. Eureka S. of Seventeenth.....	1 "
W. S. Eureka N. of Eighteenth.....	1 "
E. S. Franklin N. of Washington.....	1 "
E. S. Franklin S. of Jackson.....	1 "
E. S. Polk N. of Filbert.....	1 "
S. W. corner Army and Valencia.....	1 "
E. S. Eureka N. of Nineteenth.....	1 "
W. S. Eureka S. of Eighteenth.....	1 "
S. S. Hill W. of Church.....	1 "
S. S. Hill E. of Sanchez.....	1 "
N. S. Hill between Church and Sanchez.....	1 "
N. S. Clipper W. of Castro.....	1 "
S. E. corner "H" street and Fifth avenue.....	1 "
N. E. corner Hugo and Fifth avenue.....	1 "

Division of Architecture

BUREAU OF BUILDINGS.

DEPARTMENT OF PUBLIC WORKS.

SAN FRANCISCO, CAL., FISCAL YEAR 1904-1905.

To the Honorable the Board of Public Works,
of the City and County of San Francisco.

Gentlemen:—I have the honor to submit the following report for the fiscal year ending, June 30, 1905.

	SUBDIVISION 1—PERMITS. APPLICATIONS.	Number of Applications Filed and Examined
1904—July.....		468
August.....		505
September.....		434
October.....		453
November.....		412
December.....		411
1905—January.....		449
February.....		452
March.....		571
April.....		580
May.....		496
June.....		526
Number of applications approved during the year.....		5,664
Number of applications rejected during the year.....		52
Number of applications withdrawn during the year.....		41
Total number applications filed.....		5,757

FREE BUILDING PERMITS ISSUED—VALUE UNDER \$500.

1904—July.....	197
August.....	230
September.....	204
October.....	206
November.....	197
December.....	183
1905—January.....	187
February.....	197
March.....	223
April.....	214
May.....	200
June.....	198
Total.....	2,436

Cost of work under free permit class, \$465,546.

Number of complaints filed during year, 163.

Number of razed building permits during year, 190.

Number of moving applications reported on and approved, 58.

PAID BUILDING PERMITS—VALUE OVER \$500.

Year	New	Old	No. Permits	Fees Collected	New Work	Old Work	Total
1904							
July	157	73	230	\$1,978.50	\$1,345,472.00	\$213,093.00	\$1,558,565.00
August	172	69	241	1,921.50	1,253,052.00	96,628.00	1,349,680.00
Sept.	160	50	210	1,865.50	1,432,532.00	107,315.00	1,539,847.00
October ..	161	47	208	1,831.50	1,593,066.00	90,640.00	1,683,706.00
Nov.	149	44	193	1,323.00	684,047.00	97,623.00	781,670.00
Dec.	151	32	183	1,481.00	1,187,765.00	46,976.00	1,234,741.00
1905							
Jan.	177	50	227	1,666.00	1,202,301.00	153,860.00	1,356,161.00
Feb.	174	48	224	1,803.00	1,613,365.00	137,428.00	1,750,793.00
March	244	69	313	2,495.00	1,936,972.00	149,947.00	2,086,919.00
April	254	58	312	2,475.50	1,650,616.00	119,377.00	1,769,993.00
May	215	74	289	2,536.00	1,920,241.00	189,909.00	2,110,150.00
June	233	72	305	2,479.50	1,631,363.00	237,834.00	1,869,197.00
	2,249	686	2,935	\$23,856.00	\$17,450,792.00	\$1,640,630.00	\$19,091,422.00

INSPECTORS REPORT.

The new system inaugurated in the department with regard to submission each day by the Inspectors of a report in book form, which is a complete record of the number of visits, the time of visit and the progress and condition of the work inspected, and affords ready reference at all times to the inspection of any building erected under a permit from this department.

BUILDING AND FEE ORDINANCES.

The present building ordinance has in many sections been amended to meet new conditions and the result is most satisfactory. There is yet room for further amendment which I will endeavor to submit to your Honorable Board for consideration at the earliest opportunity. The object of said proposed amendments being to clear away ambiguous terms and to provide for construction and materials not contemplated or considered when the present ordinance was framed.

FEES.

During the fiscal year just closed there have been issued 2,436 free permits amounting in value of work to \$465,546.00. I see no reason why a fee should not be charged for every permit issued, as the department is called upon to inspect all applications for building whether under or over \$500. The free permit class generally consumes as much time in inspection as paid permits and some fee should be charged to make conditions uniform. A readjustment of the fee ordinance is recommended.

PUBLIC BUILDING SUBDIVISION.

A.

During the fiscal year just closed plans and specifications have been made for the following work:

1. Isolation Hospital.
2. Alterations and additions to Dudley Stone School.
3. Alterations to Lowell High School.
4. Alterations to Nurses' Quarters, City and County Hospital.
5. Map drawings for fire limit extension.
6. Drawings for metal bookcases, County Clerk's office.
7. Fire Engine House, Twentieth and Connecticut streets.
8. Plans for alteration to Broadway Jail.
9. Drawings for pipe casings for Fire Department.
10. Plans for alterations to Richmond Primary School.
11. Drawings for Washington Grammar School.
12. Drawings for Richmond Engine House.
13. Drawings for Crocker Grammar School.
14. Cases for County Clerk, Hall of Justice.
15. Plans for Free Market Places.
16. Plans for new boilers, Hall of Justice.
17. Revised plans for Isolation Hospital.

WORK OF ARCHITECT.

The duties of the Architect of this Bureau are so varied that all of his time is consumed in attending to many details of the office.

The inspection of plans and applications for permits takes a great portion of the Architect's time. The settlement of questions of dispute between inspectors and the public, the designing of all work of a public nature, the supervision of all building operations both public and private, the revision of the Building Ordinance and proposed amendments thereto, constitutes part of the work the Architect is obliged to take charge of.

The average daily number of applications for building permits (exclusive of razing and moving permits) examined was 20.

During the past twelve months I have returned for correction an average of seven plans per day, these plans necessarily had to be re-examined to see if all suggestions and corrections were made.

VISITS.

The Architect is required to spend much time in visiting not only public work under supervision, but also work relating to inspection of private buildings, also theatre buildings for examination, etc.

He has also attended a number of meetings of the different committees of the Board of Supervisors for conference in matters of amending ordinances, etc.

COMPARATIVE STATEMENT FOR THREE YEARS.

1902-1903. 1903-1904. 1904-1905.

	1902-3.	1903-4.	1904-5.
Applications filed.....	3,995	5,413	5,757
Applications approved.....	3,880	5,249	5,664
Applications rejected.....	77	83	52
Applications withdrawn.....	23	81	41
Fees collected.....	\$17,793.00	\$21,339.50	\$23,856.00
Value of building over \$500.....	\$17,073,782.00	\$15,589,458.00	\$19,091,422.00
Value of buildings under \$500.....		\$451,088.00	\$465,546.00
Complaints.....	197	305	163
Razed building permits.....	167	169	190
Moving building permits.....	71	65	58

REMARKS.

The volume of business of this Bureau, as above statement indicates, has increased materially during the last two fiscal years, and notwithstanding the limited inspection force that the department has had, to handle the large increase, the work has been carried out in a manner creditable not only to this Bureau, but also to your Honorable Board.

The inspection of buildings can never be complete until the number of inspectors is doubled. The great extent of territory over which each inspector must operate and the great number of buildings over which he has charge necessitates at the best a hurried inspection.

The cost of maintaining the inspection department is less than one-half the amount of fees collected for permits, therefore it is obvious that either the fees charged for building permits by ordinance are too high or else the surplus should be expended in providing additional inspection, which is much needed.

The force of inspectors now employed consists of four building and one boiler inspector. Good work is done by this force notwithstanding the fact that the district each covers is constantly increasing.

BOND ISSUE WORK.

Our architectural force will necessarily have to be materially increased to take charge of the great volume of work contemplated. With our new quarters we will be able to efficiently and expeditiously carry out all work entrusted to the department.

Respectfully submitted,

W. D. SHEA,

Architect, Board of Public Works,

Maintenance and Repairs

BUREAU OF BUILDING

San Francisco, Cal., August 31, 1905.

To the Honorable the Board of Public Works:

Gentlemen—I beg leave to submit the following report of the work performed in the Bureau of Building, Division of Public Buildings, during the fiscal year 1904-1905.

CITY HALL.

Tinted walls and ceiling and varnished wood work in Reception Room of Board of Health and Health Officer's room; tinted walls and ceilings and varnished woodwork in offices of Assessor; built stairway to basement for use of store room of Board of Education; painted ninety-two tin boxes for Assessor's office; remodeled book-cases in Board of Health; painted walls and stained, grained and varnished bookcases for Auditor; put new grille work in License Office and changed counters in License Department; built locker and cabinet in office of Secretary of Board of Public Works; fitted up gallery in Judge Hebbard's Court to be used as a store room for Stationery Clerk of Supervisors; built telephone box, partitions and cabinets in office of Justices' Clerk; made alterations in room used as Juvenile Court; raised bench and platform in Judge Murasky's Court; painted and varnished sash and pigeon holes, built partitions and put up shelving and signs in County Clerk's office; completed painting of tin filing boxes, repaired tables, desks and book racks, repaired gates and altered pigeon-holes, and stained and varnished lockers for County Clerk; tinted and frescoed main office and committee rooms of Board of Supervisors; made alterations to main counter and cabinet base and put up book-cases in office of Board of Supervisors; tinted court room chambers, juryroom and stenographer's room of Judge Troutt's department; removed skylight over Judge Troutt's court room; tinted walls and ceiling and varnished woodwork in Judge Hunt's court; altered Judge Hunt's courtroom, plastered ceiling and changed gas fixtures; tinted walls and ceiling and varnished woodwork in rooms 338 and 345 of City Attorney's office; put up picture moulding for City Attorney and Judge Hunt; built new partitions and painted same and put in new plumbing in Chemical Laboratory of Board of Health; painted, grained and varnished old and new book cases, shellacked floors, varnished window sash and put up shelving in Law Library; constructed new shelving in basement and helped electricians put in new electrical apparatus in offices of Assessor; varnished all the doors and casings on the interior of City Hall; painted iron fence on McAllister street side of building; painted iron cornice on roof of City Hall.

General repairs were made in all the offices of the Board of Public Works; also in the offices of the Board of Health, Election Commission, Treasurer, Auditor, Tax Collector, Assessor, Mayor, Board of Education, Sheriff, Civil Service Commission, Fire Commission, County Clerk, Justices' Clerk, Board of Supervisors, all the departments of the Superior Court, Law Library and City Attorney.

The plumber and helper attended to urinals, closets and lights throughout the building; put in new water closet bowls and urinals in toilets; repaired and changed gas fixtures; extended pipes in sub-basement and kept the plumbing of the City Hall in good order.

The locksmith attended to fitting keys, putting on new and repairing old door-checks, winding clocks throughout building, helping mechanics and doing general routine work.

The janitors kept the corridors, rooms and entrances to the building in a very clean and neat condition.

HALL OF RECORDS.

Tinted private office of Recorder; tinted vestibule and put lincrusta on same; shellacked linoleum; changed plumbing in copyists' gallery; assisted electricians in wiring building; built clothes closet; replastered base mouldings; put thirty locks on desks for searchers of records and made keys for same; tinted toilet and varnished window sash; put up picture moulding and put on door-checks.

HALL OF JUSTICE.

Put up book-racks and filing cases in offices occupied by the County Clerk; repaired plaster in City Prison; tinted walls and ceilings of Captain Duke's room; put up partitions in Judge Fritz's court; repaired large clock in tower of building; tinted chambers and patched court room of Judge Dunne; repaired court rooms of Judges Lawlor, Cook and Dunne; repaired water pipes in City Prison; put in new toilets for use of Police Department on first floor of building.

General repairs were made in the offices occupied by the District Attorney; the court rooms and chambers occupied by Police Judges Conlan, Cabaniss, Mogan and Fritz; in the quarters occupied by the Police Department and in the City Prison.

The janitors kept the corridors and entrances to the building in a very clean condition and the same can be said of the court rooms and offices on the interior of building.

The amount expended during the fiscal year on the City Hall, Hall of Records and Hall of Justice by the Board of Public Works was \$12,611.00.

COUNTY JAILS.

Jail No. 1. Broadway street. Repaired roof and skylight and removed wooden gratings; put up new girders and iron railing; painted new iron work and skylights; put in new water closets; sinks and urinals, extended, changed and repaired gas and water pipes; fitted up cells for trustees; papered dining room, library and hallways and put linocrusta on same; painted and varnished woodwork in kitchen and shellacked floors; put in new sewer pipes and repaired steam pipes; repaired tank and put in new valves.

Jail No. 2. San Jose Road. Ran water supply to reservoir, outside bath house and showers; repaired wash trays; overhauled toilets in large and small wings of Jail; laid new flooring in dining room; put on linocrusta in dining room and hallways; made tables for butcher shop and commissary department; repaired flooring in cells; put new sash in guards' kitchen; put new flooring in Superintendent's dining room; put up partitions in dormitories; built new side-boards and counters in prisoners' dining room; built five new drain-boards and dumb-waiters for kitchen; printed woodwork on exterior of main building; painted and tinted office, Captain's dining room, hallways and the rotunda; changed sinks and pipes in prisoners' kitchen and drug store; ran water pipes and outlets to stables; repaired trays for bath houses; repaired steam heater; put in new window sash and painted same; put in new wash trays.

Jail No. 3. Changed lead supply pipes in rear end of building; painted and tinted upper and lower dormitories; tinted and painted officers' room, dining room and painted stables and barn; repaired roof and leaders; repaired sewer; changed supply for tank; changed water and gas pipes; made galvanized gutters for roof; put in new wash trays; repaired water pipes in attic and garden; repaired fire hose; ran water pipes for lower barn; painted sash.

The amount expended on the County Jails for the fiscal year was \$10,000.00.

CITY AND COUNTY HOSPITALS.

Painted Nurses' dining room; tinted four rooms and corridor of Executive Building; painted interior of General Office; put up and painted screens for dining rooms; painted interior of General Operating Room; tinted and painted Wards C and D; grained corridors of Administration Building; painted Nurses' and Officers' pantry painted dressing room in Ward H; painted partition in J. O. R.; painted exterior of Morgue building; painted office of Resident Physician; painted and grained doors of Executive Building; painted and grained woodwork in Dispensary; painted building occupied by Out Clinic; painted partition in Ward B; painted and whitened kitchen; tinted, painted and grained officers' bath room; painted office fixtures and desk in Warden's office; painted interior of Patient's dining room; painted corridors, floors and two rooms in Executive Building; primed rustic and new work and whitened top floor of Nurses' quarters; repaired floor in bathroom of Ward D; constructed dressing room in Ward H; constructed partition in Delirious Ward; put screens on doors and windows in Nurses' and Patients' dining rooms; repaired floor and seats in General Operating Room; repaired roofs and gutters of buildings; repaired floor of Administration building and did some small jobbing there; put screens on corridor doors; made and put up bulletin board in Nurses' dining room; constructed bathroom and closet in Administration Building; fitted up dressing room, lockers and sinks in Ward H; repaired fixtures in Main office; made repairs to oven, laundry and scales; made cabinet for chapel; built coal bunker; put up sinks and drain boards in kitchen; put up lockers and shelves in laboratory of Ward D; put up sink, wainscoting and door in Dispensary; repaired plaster in Wards E, F and G; fitted up three padded rooms in Delirious Ward; put up shelving; door and bars in kitchen and G. O. R.; built shelving and put up sash cords in Ward A and Nurses' dining room; built new additions to Nurses' quarters; put up dressing room in Ward G; plastered new addition to Nurses' quarters.

Put new bath tub, water closet and basin in Warden's quarters; put new sniks in kitchen; ran gas pipes in corridors of Administration Building; repaired tin gutters on roofs over corridors; put new plumbing work in Nurses' quarters; put two new sinks in Wards G and H; put new sink in drug store; put new sink in Ward N; put hot water pipe in laundry; put new urinals in Wards B, K, L, and O; put new sink in Ward A; tinned roof of new addition to Nurses' quarters; put urinal in Ward N; put new basin in Executive Building.

Many minor repairs were made in the Hospital by our mechanics in the line of plumbing and carpenter work.

The amount expended during the fiscal year on the County Hospital during the year was \$15,000.00.

EMERGENCY HOSPITALS.

Central Emergency Hospital—Tinted telephone room, X-Ray room, main entrance; chief steward's room, two operating rooms, kitchen, male ward and hallways; put in new flooring, shelving and doors; erected partition with glass doors for operating room, extended partition in X-Ray room to ceiling; fitted up two gas heaters; put in new water closet, sinks and urinal and repaired plaster.

Park Emergency Hospital—Repaired plumbing, gas grates, flooring and stalls.

Harbor Emergency Hospitals—Painted the interior of hospital.

Amount expended during year \$720.00.

ALMS HOUSE.

Underpinned shed and cow barn; made, put up and painted screens for kitchen and dining room in building No. 1; reshingled cow barn and strengthened bulkhead; underpinned porch and repaired sink in building No. 1; put up telephone booth in office and repaired safe; repaired flooring in building No. 2; reshingled roofs and repaired doors and fences in building No. 3; reshingled roof and repaired bulkhead of hog house; underpinned and built bulkhead around stables; tore down old tank and tank house; built new fire escapes at both ends of buildings; built fence around Alms House tract; repaired all outside stairways; reshingled, blacksmith and carpenter shops; reconstructed wooden sewer in building No. 2; repaired rear porches in buildings Nos. 1 and 2; repaired floors of kitchen and dining room in building No. 2; stained and varnished pews in Chapel; painted interior and exterior of dining room, commissary room and vegetable room; repaired fence and bulkhead in rear of horse barn; built lattice work for fire escapes in buildings Nos. 1 and 2; made long benches for inmates; painted kitchen and rear porch of cottage; painted interior and exterior of building No. 3; painted and papered dining room, painted lower front hall, new fire escapes and outside porches of building No. 1; painted eighteen wooden beds in building No. 2; painted and varnished dining room in building No. 4; repaired floors, etc., in toilets and bath rooms in building No. 1; built shed in rear of main stable; made dough trays for bakery; made pigeon hole case for office in building No. 1; relaid flooring and repaired wainscoting in building No. 3; made sink for kitchen in building No. 1; made name board for office; made signs for use of grounds; built partitions in toilets in building No. 2; repaired chimneys in building Nos. 1 and 2; built shed in cow yard; made switch boards for electrical use in buildings Nos. 1, 2, 3 and 4; repaired doors and windows in building No. 1; built feed bins in pig yard; made feed troughs in cow barn; put new drains in main yard and repaired floor, gutters and drain in pig yard; repaired kitchen roof of building No. 1; put new drains and gutters in cow barn; built shed in rear of dining room, building No. 1; built fire escape in building No. 3; put up frames for pulleys in laundry; repaired bulkhead, fences and doors in cow barn; underpinned main stables and put in new flooring; repaired wood work for painters in building No. 3; made screens for cottage; repaired doors and windows in building No. 4; built shed in rear of main stable; repaired roof of laundry; put in new electrical apparatus for use of the various buildings.

The following plumbing work was done during the year: Put new bath tubs, water closets, urinals and leader pipes in building No. 1; put new water closets, urinals, basins and basin faucets, bath tubs, sinks, waste traps and leader pipes in building No. 2; put new sinks, leader pipes, bath tubs, faucets and basins in building No. 3; repaired roof and leader pipes in building No. 4; repaired the main pipe leading from pump to tank; repaired leader and air pipes in Library Building; changed hot water connection in building No. 3; tinned new awning of building No. 1; repaired hot air furnace in Library; made minor repairs to the plumbing work in the various buildings and throughout the grounds.

The amount expended during the fiscal year was \$10,000.00.

FIRE DEPARTMENT.

Engine No. 1, 419 Pacific street. Repaired flooring and stalls and planked yard; built shower room; cut out floors for plumber and relaid same; changed gas and water pipes; put in new basin and bowl; repaired roof.

Engine No. 2, 22 O'Farrell street. Made alterations by reconstructing stalls; put in new stall guides and weight boxes; repaired floor; put in new lockers and rehung harness; removed partitions on second floor; built hose tower in rear of building; built water closet on first floor; put up sink frame and capping; made slide-pole doors and filled in slide-pole holes on second and third floors; hung doors on hose tower, water closet and slide poles, etc.; put in new sink; made gas and water pipe extensions; put in new sewer; repaired roof; cleared faucets and urinals, etc.

Engine No. 3, 1317 California street. Repaired floor, stalls, front doors, reset plates under apparatus, repaired slide-pole doors and planking in yard; repaired gas and water pipes, water closet, urinal, bath tub and faucets.

Engine No. 4, Howard near Third. Repaired floor, stalls, stall guides, gutters, gutter covers; relaid shower room floor, cut for plumber and repaired same; reset plates under apparatus; repaired roof; put new plumbing in shower room; repaired gas and water pipes, water closet and urinal.

Engine No. 5, 1219 Stockton street. Repaired floor, stalls, took down front walls, cut out roof, put on hips, new gutter and cornice and sheathed inside of rafters; cut out flooring for plumber and repaired same; put new joists in front and repaired manure pit; cleared sewer; repaired fresh air inlets; repaired roof; extended gas and water pipes; put in new drainage from manure pit to sewer.

Engine No. 6, 311 Sixth street. Repaired floor, stalls, gutters and gutter covers; plugged brick walls; put up picture moulding; made alterations by changing locations of stalls; put in new stall for buggy horse; cut for let-goes and rehung harness; made new weight boxes, charts, etc.; put up frame and capping for sink; cut floors and wainscoting for plumbers; reset plates under apparatus; repaired bath tub, water closet, urinals and gas and water pipes.

Engine No. 7, 3160 Sixteenth street. Repaired floor, stalls, gas and water pipes; repaired roof; put in new weight boxes and stalls; set up new sink, rehung harness cleared sewer and repaired faucets; repaired leader pipes.

Engine No. 8, 1648 Pacific avenue. Repaired floor, stalls, gutters and gutter covers; reset stall posts; repaired water and gas pipes, faucets, water closet and urinal.

Engine No. 9, 320 Main street. Repaired floor and stalls; put in new stall posts, gutters and gutter covers; put in new supports to hay loft; put in new sink frame and capping; repaired sheathing and made and put in place large brackets to protect sounding board; repaired planking in yard; changed and repaired stall wastes; put new trap under sink and repaired gas fixtures; repaired roof; made and put up two galvanized iron chimney tops.

Engine No. 10, 516 Bryant street. Put in new ventilators; repaired floor and stalls and front doors; reset plates in runway; repaired rear doors and put on thumb latch; cleared and repaired water closet in battery house; made and put up galvanized iron ventilator in roof over stairs; general repairs were made to plumbing.

Engine No. 11, 1632 Fifteenth avenue South. Repaired floors and stalls; put up frame work to carry extra charge of hose in hose tower; repaired rustic and yard planking; cleared and repaired basins, faucets and urinals; repaired water closet and roof.

Engine No. 12, 101 Commercial street. Repaired floor, stalls, gutter and gutter covers; repaired roof; put up frame work for chimney supports and covering; put in new water closet tank; cleared waste of bathtub; repaired roof and chimney; repaired stall wastes, water and gas pipes and cleared sewer.

Engine No. 13. Repaired floor stalls, gutters and gutter covers, manure pit, front doors, locks, sash and sash cords; put in new water closet; repaired bath tub and gas pipes.

Engine No. 14, 1051 McAllister street. Repaired floor and stalls; put in new gutters and gutter covers; repaired underpinning in front of building; put new joists in front of house; repaired double floor; reset plates under apparatus; repaired manure pit, frame and wainscoting; repaired roof; general repairs were made to plumbing.

Engine No. 15, 2114 California street. Repaired floor, stalls, gutter covers, removed framing on manure pit; put in new vents; repaired rear fences, desks, sash and sashcords, front doors and platform; cleared waste of basin and repaired bath and sink faucets; made and put in ventilator; ran chute with galvanized iron; repaired water closet and gas fixtures; put up new galvanized iron chimney top and pipe.

Engine No. 16, 100 Tennessee street. Repaired floor, stalls, sash and sashcords; took off sheathing under hay loft; cut out joists to allow engine to pass under and resheathed the same; cleared and repaired waste of urinals; repaired bath, water closet and faucets.

Engine No. 17, 34 Mint avenue. Repaired floor and stalls; made new chart frames; put up brackets and shelving; made new bedding box. The roof of this house was also repaired.

Engine No. 18. Raised hose tower, put in new under pinning, mudsills, supports to joists put in new joists where necessary, removed old floor, put in an entire new double floor, lowered stall floors, put in stall gutters, gutter covers, set plates under apparatus, repaired floor and stalls, put new sash and panels in hose tower; put new

faucets over sink; repaired hopper and stall wastes; made and put up galvanized iron chimney pipe; repaired waste of basin; repaired roof and leader pipes.

Engine No. 19, 1421 Market street. Built new water tank, repaired slide-pole doors, floor, stalls and weight boxes; made manure box; put new trap under sink and repaired shower.

Engine No. 20, 2119 Filbert street. Repaired wainscoting, stall sides, floor and stalls, doors, sash and sashcords, sidewalk and runway; changed and repaired gas fixtures; repaired faucets and stall wastes.

Engine No. 21, 1152 Oak street. Repaired floor and stalls; framed opening for stairway; put in trap door in cellar and enclosed old cellar way; put up two galvanized iron chimney pipes and tops; changed water pipes and gas fixtures.

Engine No. 22, 1348 Tenth avenue. Repaired floor, stalls and doors; put on mortice locks; put in new sash and sash cords; repaired roof; repaired water closet, bath, sink and urinals.

Engine No. 23, 3022 Washington street. Repaired floor, stalls, planking and underpinning in yard; cut out and framed stairway to basement and made and hung trap door to same; repaired bath and sink faucets and leak in gas fixtures; made and put up galvanized iron leader pipes and showers; put up new galvanized iron chimney pipe and top.

Engine No. 24, 449 Douglass street. Repaired joists, double floor and stalls; braced building; put in new mud sills, underpinning and runway in front of house put in new sash and sashcords, weight boxes and lockers; repaired roof; changed sink; repaired gas and water pipes.

Engine No. 25, 2547 Folsom street. Repaired floor and stalls; reset plates under apparatus; built drying room on roof of first story, and sheathed same inside with T & G and outside with rustic; cut doorway from sitting room; cut out floors and ceiling for plumber and repaired the same; replaced lockers on first floor; cleared waste of urinals repaired water closets and faucets; repaired main roof and tinned roof of drying room; put up new galvanized iron chimney pipe and top and put up new leader pipe.

Engine No. 26, 327 Second avenue. Repaired floor and stalls; cleared and repaired gas pipes and fixtures; repaired basin faucets and stall wastes; repaired water closet and sink.

Engine No. 27, 621 Hermann street. Repaired floor and stalls; built lockers in dormitory; repaired stall partitions and bolted stall posts; repaired weight boxes; made gutter covers and door for manure pit; put up shower room; cut out floors, etc., for plumber; relaid floor; cased up and hung door; reset and repaired water closet; made gas and water pipe extensions; repaired and reset waste of stalls.

Engine No. 28, 301 Francisco street. Removed old T & G flooring; relaid an entire new floor; put up new stalls; reset plates under apparatus and put down quarter round; put new planking in yard; repaired floor and stalls; repaired water closet; made gas and water pipe extensions; lined sides of stalls with galvanized iron; repaired bath tub.

Engine No. 29, 1305 Bryant street. Built drying room; repaired floor, stalls and weight boxes; cut pockets in floor and ceiling for steam fitter and electrician; replanked yard and runway; built battery boxes; made gas pipe extensions; repaired gas fixtures; put in new faucets and repaired waste of stalls; repaired water closet bath and sink.

Engine No. 30, 1737 Waller street. Removed old gutters and put in new ones; repaired floor, stalls, and front doors; made alterations by changing stairs from basement and first floor to opposite side of house; removed slide poles; removed stalls so as to make room for stall for buggy horse; removed hay loft to rear of house; enclosed stairway; put in weight and battery boxes; rehung harness, reset plates under apparatus; built shower room on second floor; put up drying room in basement; built water closet and shed in yard; changed and repaired waste of stalls; made and put up new leader pipe and leader head; fitted up new shower room, water closet and sink; made gas and water pipe extensions.

Engine No. 31, 1236 Pacific street. Made and hung new door in hose tower, repaired floor and stalls; raised front of house; put in new underpinning, plates and sill; repaired sheathing and rustic; cut out floor and wainscoting for plumber and repaired same, cleaned and repaired waste of urinals.

Engine No. 32, Holly Park and West avenue. Repaired floor and stalls; planked runway; repaired sidewalk; raised front of house and put in new underpinning; repaired; sills, plates, studding, joists and door jambs; repaired sheathing and rustic; cleared, and repaired wastes of stalls, bath and faucets; put up new leader pipes from rear roof.

Engine No. 33, 117 Broad street. Repaired floor, stalls and sashboards; cleared gas and water pipes and made general repairs to plumbing.

Engine No. 34, 1119 Ellis street. Repaired floor and stalls and front doors; made and put in new weight boxes; cut down floor for new stall for buggy horse; put in new gutter and gutter covers and sheathed same; built water closet in yard; cut doorway through rear wall to connect with same; repaired shed and shed roof; cut out wood

work for plumber; changed and repaired waste of stalls; repaired bath tub; repaired urinal, water closet; and shower cocks; repaired sewer; reset basins, bath, sink and hopper; put in new water closet on first floor; also put in new basin faucet.

Engine No. 35, 38 Bluxome street. Repaired floor, stalls, roof and sashcords; made coal bin; enclosed stairway with 1 x 6 T & G pine; made and put in place battery box for electricians; repaired water closet, sink and faucets.

Engine No. 36, Twenty-sixth avenue and Point Lobos. Framed opening for slide-pole; cut out floor and joists to set in pipes to install hangers; put in sheaves for weights; changed openings for window frames; put up posts for hay loft; put transom bar in front door; made patterns for slide-pole braces; put in battery box; prepared frames for friction pulleys; put in extra leader pipes and made gas and water pipe extensions; changed sewer.

Engine No. 37, Utah and Twenty-fourth streets. Repaired floors, stalls, aprons and shutters; rehung harness; repaired folding beds and stall gutters; removed and relaid floor in shower room; cut flooring for plumber and relaid same; repaired water closet, urinal, bath and faucets.

Engine No. 38, Bush street near Taylor. Repaired floor and stalls; put new trap under sink and repaired waste of stalls; repaired hopper; put up new galvanized iron chimney pipe and top.

Chemical and Water Tower No. 1, 144 Second street. Repaired floor and stalls; made general repairs to plumbing.

Chemical No. 2 and Truck No. 5. Repaired floor and stalls.

Chemical No. 3, 410 Bush street. Cut out sheathings and floorings for electricians; reconstructed stalls, put in new stall guards and weight boxes and lockers; rehung harness; put up partitions; built water closet inside of tower; built stairs to cellar; put up sink frame and capping; repaired sash and put in sashcords; cleared and repaired waste of stalls; repaired sink; urinal and faucets; put up new galvanized iron chimney pipe and top; put in new water closet, sink and hopper; relined old urinal and changed waste of shower room; made gas and water pipe extensions.

Chemical No. 4, 451 McAllister street. Repaired floor, stalls, and weight boxes; cut for let-goes and rehung harness; repaired planking in yard; reset plates under apparatus; put up weight boxes, hangers and harness; cleared waste of sink and urinal; repaired water closet, bath and roof.

Chemical No. 5 and Truck No. 2, 627 Broadway street. Built shower room; changed doors in bathroom; sheathed shed and put on new roof; repaired floor, stalls, and gutter cover; made new weight boxes; made general repairs to plumbing.

Chemical No. 7, 3050 Seventeenth street. Built drying room, coal bin, wood rack and repaired floor and stalls; raised front of building and put in new underpinning repaired studding, sheathing and rustic; made forms for concrete; repaired sashcords and sidewalk; made repairs to plumbing.

Truck No. 9, 2979 Twenty-fourth street. Repaired stalls and floor and put in battery box and aprons; repaired bath, faucets and water closet and extended gas and water pipes.

Stables, 534 Tenth street. Removed weight boxes and hangers; rehung harness; built lockers; put on new locks and repaired old ones; repaired stalls, floor and mangers; repaired gutters, doors, sheds, fences, box stalls and water trough; put up brackets for hose; repaired feed racks and planking in shed; put in sash cords and cupboard locks; put in new box stalls and bolts, latches, etc., put new faucets over sink; repaired gas fixtures; repaired water pipes; repaired supply to drinking trough; put in new wash basin; lined feed bins and partitions with galvanized iron; repaired roof and put in new galvanized iron leader pipe and leader head.

Stables No. 2, Sacramento street. Repaired floor and stalls.

Drill Tower, 3050 Seventeenth street. Removed rotten underpinning, joists, etc.; put in new sill, plates, joists, studding and new planking where necessary; repaired windows and window sills.

Drill Tower No. 2, Francisco street. Repaired windows and window sills.

Hose No. 4, 1804 Stockton street. Repaired floor and stalls and altered door.

The total amount expended for repairs during the fiscal year in the Fire Department was \$15,000.00.

Respectfully submitted,

THOMAS J. POWERS.

Bureau of Buildings.

Park Commissioners' Report

Pursuant to Section 9, Article 16. of the Charter of the City and County of San Francisco, the Park Commissioners herewith present their report for the fiscal year ending June 30, 1905.

H. L. SCHMITZ,
Secretary Park Commissioners.

RECEIPTS.

	Amount	Total
By balance brought forward from 1904.....	\$7,380.24	
By revenue from Children's Quarters.....	24,934.30	
By boarding Park Mounted Police horses.....	1,440.00	
By receipts of Japanese Tea Garden.....	1,363.30	
By program privilege.....	1,340.00	
By automobile permits.....	870.00	
By rent of boat house.....	300.00	
By S. F. Fly Casting Club's Donation toward a club house.....	300.00	
By United Railroad privilege.....	300.00	
By hauling of manure from Goldberg, Bowen Co.....	120.00	
By rent of water supplied M. Sheehan.....	80.00	
By returned labor demands.....	16.25	
By sale of old iron.....	6.00	
By taxes.....	350,000.00	
		\$388,460.09

DISBURSEMENTS.

	Amount	Total
To construction account.....	\$101,681.41	
To Maintenance account.....	192,332.88	
To salaries, Secretary, Accountant and Clerk.....	4,440.00	
To stationery, advertising bids and ordinances, printing and general expenses.....	673.56	
SMALL PARKS AND SQUARES		
To construction.....	23,879.52	
To maintenance.....	44,696.51	
To balance forwarded to next fiscal year 1905-06.....	20,756.21	
		\$388,460.09

PARK COMMISSIONERS

CONSTRUCTION ACCOUNT.

STRUCTURES.	Amount	Total
Quail cage, labor and material.....	1,410.13	
Bear cage, labor and material.....	1,044.36	
Fly caster's building.....	936.14	
Fences, deer park, boulevard, etc.....	804.28	
Steps, Dutch cottage.....	532.99	
Shelters, deer and buffalo.....	365.83	
Automobile stand.....	225.65	
Bridge, chain of lakes.....	149.18	
Rustic house.....	130.00	
Tunnel, athletic field.....	82.10	
Cement floor, gateway Haight street entrance.....	66.00	
Shed at windmill.....	59.11	5,805.68
TENNIS COURTS		
Extension of Tennis Club House.....	1,356.19	
Bitumen of new courts.....	1,130.03	2,486.22
WATER WORKS		
Water pipe extension, labor, pipe and fittings.....	6,279.68	
Deepening well.....	4,077.96	
Artesian well.....	1,084.26	
Archway.....	412.80	
Hardware.....	226.97	12,081.67
DRAINS		
Construction of drains, labor and material.....	199.35	199.35
ROADS AND WALKS		
Great Highway Drive, labor and material.....	4,694.40	
Walk on south drive, labor and material.....	4,204.95	
Walk at Spreckels lake, labor and material.....	1,065.15	
Drive at Spreckels lake, labor and material.....	704.75	
Walk at Lloyd lake.....	303.00	
Automobile road.....	154.50	
Walk, Chain of Lakes.....	65.25	11,192.00
GROUNDS		
To labor and material for grading, forming, dressing, trimming and fertilizing grounds, and purchasing of loam, clay, manure and trees:		
Labor, seed, bulbs, clay, loam, etc.....	7,473.25	
Construction of grounds at Baker street entrance, labor and material.....	1,441.25	
Construction of grounds, Lloyd lake.....	510.10	
Construction of ground, Dutch Garden.....	321.40	
Construction of grounds, Bell Tower Hill.....	314.79	
Construction of grounds, Botanical Garden.....	289.80	10,350.59
ATHLETIC FIELD		
Labor and material.....	11,253.27	11,253.27

CONSTRUCTION ACCOUNT—Continued.

	Amount	Total
FOREST PLANTATION AND RECLAMATION		
Planting trees, spreading loam, manure, etc., reclaiming sand drifts:—		
To labor in hauling and spreading loam and manure, planting trees, etc.	16,762.90	
To transportation of street sweepings.	15,726.60	
Extension of irrigating ditch.	1,068.91	
Bridge, South Drive.	311.21	33,869.62
CONSERVATORY		
Plants.	130.00	130.00
STOCK AND IMPLEMENTS		
Hardware, harrows, barrows, steam-scrapers, etc.	1,067.32	
Carts.	330.00	
Boiler.	250.00	1,647.32
LIVE STOCK		
Buffaloes, horses, peacocks, squirrels, etc.	4,198.90	4,198.90
NURSERY		
To plants.	8.00	8.00
MUSEUM		
Show cases.	833.00	833.00
SMALL WORKS		
Basin in condor cage.	61.00	
Rockwork, labor and cement.	146.50	207.50
LLOYD LAKE		
Labor.	4,322.00	
Clay.	2,399.28	6,721.28
JAPANESE TEA GARDEN		
Japanese Tea, Garden, labor and material.	284.04	284.04
CHILDREN'S QUARTERS		
Repairs to merry-go-round.	254.61	
Picnic tables.	30.96	
Gas range.	110.00	
Repairs to wagons.	17.40	412.97

PARK COMMISSIONERS

CONSTRUCTION ACCOUNT—Continued.

	Amount	Total
SMALL PARKS AND SQUARES		
To constructing and improving the following Parks and Squares—		
Alta Plaza, including \$4,000 for flight of terrace steps.	9,016.50	
Lobos Square.....	6,438.63	
Buena Vista Park.....	3,673.72	
Washington Square (labor and material, excavation for Convenience Station).....	3,684.96	
Library grounds.....	556.00	
City Hall grounds.....	220.65	
Jefferson Square.....	145.56	
Mission Park.....	143.50	23,879.52

MAINTENANCE ACCOUNT

STRUCTURES	Amount	Total
To labor, lumber, paints, oils, hardware, fencing, repairing monuments, benches and supplies used in the general maintenance of structures—		
Labor, including carpenters and painters.....	9,846.40	
Material.....	4,118.05	13,964.45
TENNIS COURTS AND CLUB HOUSE		
Labor.....	1,428.25	
Material, nets, fittings, etc.....	77.50	1,505.75
WATER WORKS		
Labor.....	6,429.85	
Machine fittings and hardware.....	4,078.60	
Fuel Oil.....	4,021.95	
Machine oil.....	647.60	
Labor on wood for fuel.....	898.75	
Supplies, packing, etc.....	159.87	16,236.62
DRAINS		
Labor and material.....	325.25	325.25
ROADS AND WALKS		
To labor and material repairing and cleaning, dressing and sprinkling roads and walks—		
Labor.....	7,449.35	
Labor on Great Highway.....	441.00	
Labor on Speed Road.....	561.81	
Labor on Bicycle Path.....	70.50	
Labor on Bridle Path.....	15.50	
Oil.....	750.31	
Powder and fuse.....	60.60	9,349.07

PARK COMMISSIONERS

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MAINTENANCE ACCOUNT—Continued.

	Amount	Total
GROUNDS		
Lawns and grounds in general—		
Labor.....	61,714.65	
Hose, plants, seed, labels, garbage cans, etc.....	2,161.68	63,876.33
FORESTS		
Thinning and replanting, etc.....	2,587.70	2,587.70
CONSERVATORY		
Labor.....	4,328.55	
Coal.....	957.81	
Orchids, plants, flower pots, labels, insect powder, etc....	686.00	
Repairs to furnace.....	475.84	6,448.20
STOCK AND IMPLEMENTS		
Labor, maintaining tools and implements, smithshop and rolling stock.....	2,835.60	
Tools, hardware, etc.....	1,855.37	
Hardware for smithshop.....	758.85	
Repairs to rolling stock.....	354.81	
Harness.....	318.03	6,122.66
LIVE STOCK		
Labor.....	1,856.65	
Feed for birds and animals.....	3,673.90	5,530.55
SURVEYING AND DRAUGHTING		
Labor, stationery and repairs to instruments.....	1,459.69	1,459.69
NURSERY		
Labor.....	8,989.30	
Seed, flower pots, lumber, glass, etc.....	550.23	9,539.53
STABLES		
Labor.....	4,258.75	
Feed and hay.....	10,181.90	
Veterinary service, drugs, supplies, etc.....	471.60	14,912.25
MUSEUM		
Labor.....	7,681.95	
Labor, carpenters, and painters.....	586.85	
Coal.....	443.08	
Gas.....	100.40	
Stationery, labels.....	139.28	
Insurance on paintings.....	300.00	
General expenses, lumber, paints and oils, light glass, brooms, sponges, hangings, etc.....	1,394.94	10,646.50

MAINTENANCE ACCOUNT—C6tinued.

	Amount	Total
ELECTRIC LIGHTS		
Lights and fittings.....	2,016.36	2,016.36
JAPANESE TEA GARDENS		
Supplies, charcoal, etc.....	858.51	
Cashier.....	142.50	1,001.01
SUNDRIES		
Music.....	3,784.05	
General expense, rewards, rent of filters, including \$1,000 toward Sup't researches in Europe	1,585.32	
Freight and express.....	475.25	
Permits and numbers, etc., for automobiles.....	496.00	6,340.62
CHILDREN'S QUARTERS		
To labor, Sup't and Ass'ts	8,265.25	
Supplies, bread, ham, tongue, coffee, tea, chocolate, candy, syrup, etc.....	9,565.86	
Feed and hay.....	328.00	
Coal.....	277.65	
Gas.....	272.50	
Tickets for merry-go-round, donkey and goat rides.....	97.50	
Printing menus, bags, checks, etc.....	61.60	
General expense, hardware, crockery, kitchen utensils, har- ness, sulky wheels, awnings, window and door screens, linoleum, etc.....	917.13	
Carpenters and painters.....	684.85	20,470.34
SMALL PARKS AND SQUARES		
Labor, water, hose, rock for walks, etc—		
Alta Plaza.....	5,109.35	
Alamo Square.....	5,469.95	
Bernal Park.....	1,653.75	
Buena Vista Park.....	317.55	
Columbia Square.....	2,051.05	
City Hall Grounds.....	2,256.20	
Convenience Station (Union Square).....	1,514.95	
Duboce Park.....	2,577.00	
Franklin Square.....	388.75	
Garfield Square.....	1,711.25	
Hamilton Square.....	3,010.80	
City and County Hospital Grounds.....	1,577.90	
Jefferson Square.....	5,140.25	
Lafayette Square.....	3,013.90	
Portsmouth Square.....	1,271.25	
South Park.....	1,172.50	
School Grounds.....	1,321.00	
Union Square.....	2,704.94	
Washington Square.....	1,446.75	
General Account.....	351.87	
Holly Park.....	309.60	
Telegraph Hill.....	110.50	
Lobos Square.....	215.45	44,696.51

APPENDIX.

Board of Supervisors

OF THE

CITY AND COUNTY OF SAN FRANCISCO.

1905-1906.

Mayor and Ex-Officio President, HONORABLE EUGENE E. SCHMITZ.

MEMBERS.

GEORGE ALPERS	356 Fifth Street
FRED N. BENT	2600 Folsom Street
JAMES P. BOOTH	123 Ellis Street
CHARLES BOXTON	60 Pierce Street
HENRY U. BRANDENSTEIN	530 California Street
SAMUEL BRAUNHART	762A Harrison Street
A. COMTE, JR.	534 1/2 California Street
JOHN CONNOR	313 California Street
A. A. D'ANCONA	995 Golden Gate Avenue
FREDERICK EGGERS	302 Gough Street
*THOMAS F. FINN	834 Howard Street
*JAMES L. GALLAGHER	130 Steiner Street
OSCAR HOCKS	302 Tenth Street
THEODORE LUNSTEDT	139 O'Farrell Street
GEORGE B. McCLELLAN	2295 Fifteenth Street
HENRY PAYOT	Pine and Battery Streets
L. A. REA	1318 Stockton Street
EDWARD R. ROCK	327 Market Street
WILLIAM W. SANDERSON	213 Front Street

STANDING COMMITTEES.

Artificial Lights	SANDERSON, McCLELLAN, GALLAGHER
Charities and Correction	GALLAGHER, EGGERS, REA
Charter Amendments	BENT, BRAUNHART, CONNOR
Civil Service	ALPERS, LUNSTEDT, BRANDENSTEIN
Education	LUNSTEDT, BOOTH, ROCK
Electricity	EGGERS, ROCK, GALLAGHER
Equalization of Assessments	ROCK, HOCKS, LUNSTEDT
Finance	BRANDENSTEIN, D'ANCONA, PAYOT
Fire	HOCKS, ALPERS, LUNSTEDT
Hospital and Health	PAYOT, D'ANCONA, ALPERS
Judiciary	COMTE, BRANDENSTEIN, BOOTH
License and Orders	McCLELLAN, GALLAGHER, REA
Outside Lands	EGGERS, PAYOT, COMTE
Police	BOXTON, EGGERS, McCLELLAN
Printing and Salaries	BOOTH, BENT, SANDERSON
Public Buildings	REA, BRAUNHART, CONNOR
Public Utilities	BRAUNHART, BOXTON
Streets, Sewers and Parks	CONNOR, D'ANCONA, McCLELLAN, HOCKS, BENT
Water Rates	CONNOR, BRAUNHART, ROCK
Wharves and Water Front	D'ANCONA, COMTE, BOXTON
	PAYOT, SANDERSON, HOCKS

*Thos. F. Finn resigned Jan. 31, 1905, and was succeeded by James L. Gallagher, who was appointed by His Honor, the Mayor, Feb. 11, 1905.

OFFICERS.

CHAS. W. FAY	Clerk
JOHN E. BEHAN	Chief Assistant Clerk
JOHN. H. RYAN,	} Assistant Clerks
ROBERT J. LOUGHERY,	
JAMES J. LYNCH,	
JAMES E. DONAHUE,	
P. H. MCKENNA,	
T. B. MCGINNIS,	Assistant Clerk assigned to Stationery Department
JOHN F. FINN	Expert Finance Committee
CYRIL WILLIAMS	Sergeant-at-Arms
ROBERT W. ANDERSON	

RULES OF PROCEEDINGS.

1. In the absence of the President, the Clerk, on the appearance of ten members, shall call the Board to order, when a President pro tem, shall be appointed by the Board for that meeting, or until the appearance of the President.

2. Whenever it shall be moved and carried that the Board go into Committee of the Whole, the President shall leave the chair and the members shall appoint a chairman of the Committee of the Whole, who shall report the proceedings of said Committee.

3. The rules of the Board shall be observed in the Committee of the Whole, except the rules regulating a call for ayes and nays and limiting the time of speaking.

4. A motion, in Committee of the Whole, to rise and report the question, shall be decided without debate.

5. The Clerk shall have clips, upon which shall be kept all Bills, Ordinances, Resolutions and Reports to be acted upon by the Board, except those not reported upon by a committee.

6. A Resolution or a Bill shall not be submitted to the Board for action until it shall have been referred to and acted upon by a committee of the Board.

7. The standing committees of the Board, each of which shall consist of three members, except the Committee on Public Utilities, which shall consist of seven members, shall be as follows:

Artificial Lights; Charities and Corrections; Charter Amendments; Civil Service; Education; Electricity; Equalization of Assessments; Finance; Fire; Hospital and Health; Judiciary; License and Orders; Outside Lands; Police; Printing and Salaries; Public Buildings; Public Utilities; Streets, Sewers and Parks; Water Rates; Wharves and Water Front.

Said Committees shall consider and report upon such subjects as may be referred to them by the Chair or the Board.

8. The Order of Business, which shall not be departed from, except by the consent of ten members, shall be as follows:

1st—Calling the roll.

2d—Reading the Journal.

3d—Roll Call for Petitions from Members.

4th—Presentation of Petitions filed with the Board.

5th—Communications and Reports from City and County Officers.

6th—Reports of Committees, except Finance Committee.

7th—Presentation of Proposals.

8th—Unfinished business.

9th—Presentation of bills and accounts.

10th—Report of Finance Committee.

11th—Bills, Ordinances, Motions or Resolutions (New Business).

12th—Roll Call for introduction of Resolutions, Bills and Ordinances not considered or reported on by a committee.

9. No person other than a member or an ex-Mayor shall be allowed to address the Board on any matter that may be before it, without the consent of a majority of the members present, nor to speak to or in any way interfere with a member while in his seat or on the floor of the chambers.

10. If any question under debate contains several points, any member may have the points segregated and acted upon separately.

11. When any question has been put and decided, any member who voted with the prevailing side may move its reconsideration, but no motion for the reconsideration of any question shall be made after the Bill, Ordinance or Resolution voted on shall have gone out of the possession of the Board. A question shall be reconsidered only at the meeting at which the vote thereon was taken, or at the next succeeding meeting provided, notice of intention to reconsider shall have been given at the meeting at which said vote was taken; provided further, that when a Bill is put upon its final passage, and fails to pass, a motion to reconsider shall be voted on only at the meeting next occurring,

after the expiration of twenty-four hours after the adjournment of the meeting at which said question was voted on. Only such questions are subject to reconsideration which result in the defeat or passage of a Bill, Ordinance or Resolution or amendment thereto, and no such question shall be reconsidered more than once; provided, however, that any member who voted with the prevailing side may, upon notice of intention to reconsider given by any other member voting with that side, move the reconsideration of the question.

12. A motion to refer or lay on the table until decided shall preclude all amendments to the main question. A motion to lay on the table or to postpone indefinitely shall require a majority vote of all the members of the Board.

13. It shall be the duty of the Clerk to issue such certificates as may be required by Ordinances or Resolutions, and transmit copies of said Ordinances or Resolutions to the various departments affected thereby.

14. All accounts and bills presented shall be referred to the appropriate committee and acted upon by said committee and the Finance Committee before action is taken by the Board.

15. The President shall preserve order and decorum and shall decide questions of order, subject to appeal to the Board.

16. A member, before speaking, shall rise from his seat and address the President. No motion shall be in order if made while the mover is seated or out of his place.

17. When several members rise at the same time, the President shall designate the member entitled to the floor.

18. No member shall speak to the same question oftener than once until all other members desiring to speak shall have spoken, nor oftener than twice without the consent of the Board, nor for more than five minutes without the permission of the President; provided, however, the author of the Bill, Motion, Ordinance or Resolution shall have the right to close the debate thereon.

19. A motion shall not be put or debated until seconded. When seconded it shall be stated by the Chairman before debate and shall be reduced to writing upon the request of the President or any member.

20. After a motion has been stated by the President, it shall be deemed to be in the possession of the Board, but it may be withdrawn by the mover thereof, with the assent of the second, before it is acted upon.

21. Upon a call of the Board the names of the members shall be called over by the Clerk, and the absentees noted. Those for whom no excuses or insufficient excuses are made may, by order of those present, be sent for and be brought to the chambers of the Board by the Sergeant-at-Arms or by special messengers appointed for the purpose. Proceedings under the call may be dispensed with by the vote of a majority of the members present.

22. When a question is under debate, no motion shall be entertained except:

- 1st—To adjourn.
- 2d—Call of the Board.
- 3d—To lay on the table.
- 4th—The previous question.
- 5th—To postpone to a day certain.
- 6th—To commit or amend.
- 7th—To postpone indefinitely.

which several motions shall have precedence in the order in which they are arranged.

23. A motion to adjourn shall be decided without debate.

24. The previous question until decided shall preclude all amendments to and debate on the main question, and be put in this form: "Shall the main question be now put?" It shall be carried by a majority vote of all the members.

25. Every member present when a question is put shall vote for or against it, unless the Board shall excuse him for voting, or unless he is interested in the question. But no member shall be permitted to vote upon a division unless present when his name is called in the regular order.

26. A member called to order for unparliamentary conduct or language shall immediately take his seat, and the Board, if appealed to, shall decide on the case, but without debate. If there be no appeal, the decision of the chair shall be final. The question upon such appeal shall be: "Shall the decision of the chair stand as the decision of the Board?"

27. After the Board has acted, the names of those who voted for and those who voted against the question shall be entered upon the Journal, not only in cases required by law, but when any member may require it; and on all Bills, Ordinances and Resolutions on final passage the ayes and nays shall be called by the Clerk and recorded.

28. All appointments of officers and employees shall be made by a majority of all the members of the Board.

29. No member shall leave the Board during its session without permission from the President.

30. All committees shall be appointed by the Board, unless otherwise ordered by the Board. Committees shall report on any subject referred to them by the Board a statement of facts and also their recommendations thereon, in writing; and no report shall be received unless it be signed by a majority of the committee. Whenever a committee recommends that a contract be awarded to any one other than the lowest bidder thereon, said committee shall state specifically in its report its reasons for such recommendations. Unless otherwise ordered, a committee shall report upon all subjects referred to it within thirty days thereafter.

31. Every remonstrance or other written application intended to be presented to the Board must be delivered to the Clerk not later than 12 o'clock noon on the day on which the Supervisors convene; only the endorsements of such remonstrance or application shall be read by the Clerk; provided, however, that upon the request of the President or of any member, its contents shall be read in full.

32. Upon adjournment the members of the Board shall not leave their places until the President leaves the chair.

33. Ten members shall constitute a quorum to transact business, and no Bill, Ordinance, Resolution or amendment thereto shall pass without the concurrence of at least that number of members; but a smaller number may adjourn from day to day.

34. Except when otherwise provided by these rules, the Charter or law, a majority vote of the members present shall be necessary for the adoption of any motion.

35. On any question of points of order not embraced in these rules the Board shall be governed by the rules contained in Cushing's Manual.

36. It shall require a two-thirds vote of all members of the Board to amend, suspend or repeal any of these rules.

37. In calling the roll the clerk shall call only the surname of the member prefixing the word Supervisors to the surname of the Supervisor first called.

38. No smoking shall be permitted in the chambers of the Supervisors during the sessions of the Board.

39. The clerk shall keep a record of all requests and instructions, directed by the Board of Supervisors to any officer of the Board of the City and County, and the action thereon of such officer or Board. The record of such request and instructions, until acted upon by such officer or Board, shall be read by the clerk at each regular meeting of the Board of Supervisors.

(Rules approved and adopted October 22, 1900—Resolution No. 975. Amended by the addition of Rule 39, January 4, 1904—Resolution No. 4275. Rule 7 amended January 8, 1904—Resolution No. 4280.)

Water Rates

WATER RATES.

The Board of Supervisors, pursuant to the requirements of the Constitution of the State of California, of the Act of the legislature, approved March 7, 1881, and of Section 1, Chapter II, Article II of the Charter of the City and County and in compliance therewith, obtained statements from the corporations engaged in the business of supplying water during the year 1904, showing their receipts and expenditures and nature and character of properties, and after consideration and investigation, fixed the rates to be collected for furnishing water during the year commencing July 1, 1904, and ending June 30, 1905.

CONSTITUTIONAL PROVISIONS.

The following article of the Constitution of the State, adopted in 1879, and which went into effect on January 1, 1880, made it the duty of the Board of Supervisors, in the month of February of each year, to fix the rates for the ensuing fiscal year, commencing on the first day of July of compensation to be collected by any person, company or corporation engaged in the business of supplying water for the use of the City and County or its inhabitants.

ARTICLE XIV—WATER AND WATER RIGHTS.

Section 1. The use of all water now appropriated, or that may be hereafter appropriated, for sale, rental or distribution, is hereby declared to be a public use and subject to the regulation and control of the State, in the manner to be prescribed by law; provided, that the rates or compensation to be collected by any person, company or corporation in this State for the use of water supplied to any city and county, or city or town, or the inhabitants thereof, shall be fixed annually by the Board of Supervisors, or city and county, or City or Town Council, or other governing body of such city and county, or city or town, by ordinance or otherwise, in the manner that other ordinances or legislative acts or resolutions are passed by such body, and shall continue in force for one year and no longer. Such ordinances or resolutions shall be passed in the month of February of each year, and take effect on the first day of July thereafter. Any board or body failing to pass the necessary ordinances or resolutions fixing water rates, where necessary, within such time shall be subject to peremptory process to compel action at the suit of any party interested, and shall be liable to such further processes and penalties as the Legislature may prescribe, any person, company or corporation collecting water rates in any city and county, or city or town in this State, otherwise than as so established, shall forfeit the franchises and water works of such person, company or corporation to the city and county, or city or town, where the same are collected, for the public use.

Sec. 2. The right to collect rates or compensation for the use of water supplied to any county, city and county, or town, or the inhabitants thereof, is a franchise, and cannot be exercised except by authority of and in the manner prescribed by law.

The following section of Article XI of the Constitution, as amended in 1885, also granted the right to persons and corporations to use the public streets for supplying water or illuminating light to the inhabitants, on condition that the Legislature shall have the right to regulate the charges:

ARTICLE XI—RIGHT OF WATER AND GAS COMPANIES TO USE PUBLIC STREETS.

Section 19. In any city where there are no public works owned and controlled by the municipality, for supplying the same with water, or artificial light any individual, or any company duly incorporated for such purpose under and by authority of the laws of this State, shall, under the direction of the Superintendent of Streets, or other officer in control thereof, and under such general regulations as the municipality may prescribe for damages and indemnity for damages, have the privilege of using the public streets and thoroughfares thereof, and of laying down pipes and conduits therein, and connections therewith, so far as may be necessary for introducing into and supplying such city and its inhabitants either with gas light or other illuminating light, or with fresh water for domestic and all other purposes, upon the condition that the municipal government shall have the right to regulate the charges thereof.

ACT OF LEGISLATURE.

The Legislature of the State, at the session of 1881, passed the following Act, providing for carrying out the objects of Article XIV of the Constitution, by imposing upon the Board of Supervisors the duty of requiring all persons or corporations engaged in supplying water to file statements in the month of January of each year, showing the names, residence and the amount paid by each rate payer during the preceding year the revenue derived from all sources, and an itemized statement of expenditures made for supplying water during the same time:

An Act to enable the Board of Supervisors, Town Council, Board of Alderman, or other legislative body of any city and county, city or town, to obtain data and information from any corporation, company or person supplying water to such city and county, city or town. Requiring such board, Town Council, or other legislative body to perform the duties prescribed by Section 1 of Article XIV of the Constitution, and prescribing penalties for the non-performance of such duties.—Approved March 7, 1881.

The People of the State of California, represented in Senate and Assembly, do enact as follows:

(Municipal Corporations to Fix Water Rates.)

Section 1. The Board of Supervisors, Town Council, Board of Aldermen or other legislative body of any city and county, city or town, are hereby authorized and empowered, and it is made their official duty, to annually fix the rates that shall be charged and collected by any person, company, association or corporation for water furnished to any such city and county, or city or town, or the inhabitants thereof. Such rates shall be fixed at a regular or special session of such Board or other legislative body, held during the month of February of each year, and shall take effect on the first day of July thereafter, and shall continue in full force and effect for the term of one year, and no longer.

(Annual Statement to be Made by Water Companies, etc.)

Sec. 2. The Board of Supervisors, Town Council, Board of Aldermen or other legislative body of any city and county, city or town, are hereby authorized, and it is hereby made their duty, at least thirty days prior to the fifteenth day of January of each year, to require by ordinance or otherwise any corporation, company or person supplying water to such city and county, city or town, or to the inhabitants thereof, to furnish to such board or other governing body, in the month of January in each year, a detailed statement, verified by the oath of the president and secretary of such corporation or company, or of such person, as the case may be, showing the names of each water-rate payer, his or her place of residence, and the amount paid for water by each of such water-rate payers, during the year preceding the date of each statement, and also showing all revenues derived from all sources, and an itemized statement of expenditures made for supplying water during said time.

(Additional Statements to be Made by Water Companies, etc.)

Sec. 3. Accompanying the first statement made as prescribed in Section 2 of this Act, every such corporation, company or person shall furnish a detailed statement, verified in like manner as the statement mentioned in Section 2 hereof, showing the amount of money actually expended annually since commencing business, in the purchase, construction and maintenance, respectively, of the property necessary to the carrying on of its business, and also the gross cash receipts annually, for the same period, from all sources.

(Refusal by Water Companies to Make Statement a Misdemeanor.)

Sec. 4. Every corporation, company or person who shall refuse or neglect to furnish the statements mentioned in Section 2 and 3 of this Act, or either one of them, or shall furnish any false statements in relation thereto, within thirty days after having been required or requested to furnish the same, as prescribed in Section 1, 2, and 3 of this Act, shall be deemed guilty of a misdemeanor.

(Copies of Statements to be Made and Filed with the County Recorder.)

Sec. 5. Upon receiving the statements provided for in Sections 2 and 3 of this Act, the Board of Supervisors, Town Council, Board of Aldermen, or other legislative body shall cause a copy thereof to be made and filed in the office of the County Recorder of such city and county, or of the county wherein such city or town is situated.

(Water Rates to be Equal and Uniform—Proviso.)

Sec. 6. Rates for the furnishing of water shall be equal and uniform. There shall be no discriminations made between persons, or between persons and corporations, or as to the use of water for private and domestic, and public or municipal purposes;

provided, that nothing herein shall be so construed as to allow any person, company, association or corporation to charge any person, corporation or association anything for water furnished them when by any present law, such water is free.

(Excess in Charging Rates Forfeits Franchise, etc.)

Sec. 7. Any person, company, association or corporation, charging or attempting to collect, from the persons, corporations or municipalities using water, any sum in excess of the rate fixed as hereinbefore designated, shall, upon the complaint of the said Board of Supervisors, Town Council, Board of Aldermen, or other legislative body thereof, or of any water-rate payer, and upon conviction, before any court of competent jurisdiction, shall forfeit the franchise and water work of such person, company, association or corporation to the city and county, city or town, wherein the said water is furnished and used.

(Penalty to Supervisors for neglecting to Enforce Provisions of Act.)

Sec. 8. Any Board of Supervisors or other legislative body of any city and county, city or town, which shall fail or refuse to perform any of the duties prescribed by this Act, at the time and in the manner hereinbefore specified, shall be deemed guilty of malfeasance in office, and upon conviction thereof, at the suit of any interested party, in any court of competent jurisdiction, shall be removed from office.

(Act in Effect.)

Sec. 9. This Act shall take effect and be in force from and after its passage.

CHARTER PROVISION.

The following provision of the Charter of the City and County of San Francisco, in effect January 8, 1900, empowers the Board of Supervisors to fix and determine by ordinance the rates or compensation to be collected by any person, company or corporation for the use of water, heat, light or power, and to prescribe the quality of the service.

ARTICLE II, CHAPTER II—POWERS OF THE SUPERVISORS.

Section 1—Sub. 14. To fix and determine by ordinance in the month of February of each year, to take effect on the first day of July thereafter, the rates of compensation to be collected by any person, company or corporation in the City and County, for the use of water, heat, light or power, supplied to the City and County or to the inhabitants thereof, and to prescribe the quality of the service.

INVESTIGATION OF WATER RATES.

As preliminary to commencing the investigation in the matter of fixing and establishing water rates for the year commencing July 1, 1905, and ending June 30, 1906, the Board of Supervisors adopted the following resolutions in order to procure information necessary to enable it to act intelligently and fairly in fixing said rates:

Resolution No. 5357, adopted December 12, 1904, requiring statements to be filed by all persons, companies or corporations engaged in the business of supplying water to the inhabitants of this city and county.

Resolution No. 5358, adopted December 12, 1904, directing the Board of Public Works to make an appraisalment of certain properties of the Spring Valley Water Company.

Resolution No. 5359, adopted December 12, 1904, directing the Spring Valley Water Company to file an inventory of all its properties actually used in supplying the City and County of San Francisco and its inhabitants with a pure and wholesome supply of water.

Resolution No. 5543, adopted February 1, 1905, directing the Spring Valley Company to file an itemized statement of the said company for the year ending July 30, 1904, and for the six months ending December 31, 1904.

Resolution No. 5542, adopted February 6, 1905, directing the Spring Valley Water Company to file detailed statements of revenues and expenditures for the year commencing July 1, 1903, and ending June 30, 1904, and also for the six months ending December 31, 1904.

Resolution No. 5544, adopted February 6, 1905, directing the Clerk to ascertain the assessed value of the properties of the Spring Valley Company in several counties.

INVESTIGATION COMMENCED.

The Board met and resolved itself into a Committee of the Whole on Thursday afternoon, February 16, 1905, at 3 o'clock P. M., for the purpose of taking testimony and of making such investigations as would enable it to fix and establish water rates for the year commencing July 1, 1905, and ending June 30, 1906.

The Committee of the Whole, by Supervisor D'Ancona, chairman of the Water Rates Committee, reported, as follows:

That it has commenced the inquiry in the matter of fixing water rates for the year commencing July 1, 1905, and ending June 30, 1906; that it has heard the testimony of Cyril Williams, Jr., assistant engineer Spring Valley Water Company, concerning the properties of said company, and also the testimony of Pelham W. Ames, secretary of said company, relative to its accounts; that the transcripts of testimony taken during the past five years, namely, 1900, 1901, 1902, 1903 and 1904, have been incorporated in and made a part of this year's proceedings, and the exhibits then offered in evidence for the purpose of fixing water rates in the month of February of each of these years as required by law, have been admitted in evidence and made a part of this year's record, by express consent of M. B. Kellogg, attorney for Spring Valley Water Company.

That the following matters, filed in response to requests of the Board of Supervisors, have been duly considered and marked Exhibits as follows:

1. Sections Twenty-seven (27), Thirty-three (33), Thirty-four (34), and fractional Sections Five (5), Six (6), Seven (7), Eight (8), Nine (9), Fifteen (15), Sixteen (16), Seventeen (17), Eighteen (18), Nineteen (19), Twenty (20), Twenty-one (21), Twenty-two (22), Twenty-six (26), Twenty-eight (28), Twenty-nine (29), Thirty (30), Thirty-one (31), Thirty-two (32), Thirty-five (35) and Thirty-six (36), in Township Four (4) South, Range (5), west:

Section Twelve (12), and fractional Sections One (1), Two (2), Three (3), Four (4), Five (5), Six (6), Seven (7), Eight (8), Nine (9), Ten (10), Eleven (11), Thirteen (13), Fourteen (14), and Twenty-four (24), in Township Five (5) South, Range Five (5) West. (Fractional Sections Five (5), Six (6), Eight (8) and Nine (9), temporarily out of use.)

Section Eighteen (18), and fractional Sections Six (6), Seven (7), Eight (8), Sixteen (16), Seventeen (17), Nineteen (19), Twenty (20), Twenty-one (21), Twenty-nine (29), Thirty (30) and Thirty-one (31), in Township Five (5) South, Range Four (4) West:

ASHTON TRACT—SAN ANDREAS RESERVOIR: 152.43 ACRES.

Fractional Sections Thirteen (13), Twenty-four (24) and Twenty-five (25), in Township Four (4) South, Range (6) West.

Fractional Sectional Thirty-one (31), in Township Four (4) South Range, Four (4) West.

Containing in all, eighteen thousand eight hundred ninety-two (18,892) acres, more or less.

Water rights of Pilarcitos—and San Mateo Creek and tributaries.

2. Millbrae pump—and—Reservoir—site, 68 acres.
3. Belmont Pump—and—Reservoir—site, 44.70 acres.
4. Baden, 9 acres.

PARTLY IN SAN MATEO AND PARTLY IN SAN FRANCISCO COUNTY:—

5. Lake Merced lands, 2,730 acres.

6. Other properties in San Francisco, City and County now in use:—

(Mem. page numbers refer to pages in map book of these properties, furnished in February, 1902.)

Clarendon Heights Reservoir tract.

Clarendon Heights pump station Lot on 17th street.

College Hill Reservoir tract.

University Mound Reservoir tract.

Lake Honda Reservoir tract.

Right of Way property, Islais Creek and Visitacion Valley.

Lombard Street Reservoir, one block.

Pipe yard, Bryant near Fourth.

Clay Street Hill Reservoir Lot.

Black Point pumping station Lot.

San Francisco Street Reservoir, one and one-half blocks (omitted in last year's map book.)

Right of Way property, Lake View.

Potrero Heights Reservoir tract.

Right of Way property, Fairmount Street.

Office Lot, Geary and Stockton Streets.

Presidio Heights, res., 50 vara. S. E. Cor. Lyon and Pacific.

Two Lots, 20x50 feet, Reed Street bet. Washington and Clay.

Thirty-seven Lots in Reis tract.

Lot 75 by 120 feet on Forty-first Avenue near H Street, for Oceanside Tank.

LANDS OF THE SPRING VALLEY WATER WORKS IN THE ALAMEDA CREEK SYSTEM, NOW IN USE IN SUPPLYING WATER TO SAN FRANCISCO.

I.

Lots numbered Three (3) and Four (4) in Section Eleven (11) and Lots numbered One (1) and Two (2) in Section Fourteen (14), Township Four (4) South, Range One (1) West, Mt. Diablo Base and Meridian, according to the United States' Official Plat and Survey, and containing seventy-one and forty-five hundredths (71 45-100) acres, more or less.

II.

1. The southeast quarter of the southwest quarter and the southwest quarter of the southeast quarter of Section Twelve (12), and Lots Five (5) and Six (6), and the northeast quarter of the northeast quarter of Section Thirteen (13), Township Four (4) South, Range One (1) West, Mount Diablo Base and Meridian, according to the United States' Official Plat and Survey, and containing one hundred and sixty-three and twenty-two hundredths (163 22-100) acres.

2. The north half of the southwest quarter and the southwest quarter of the southwest quarter of Section Twelve (12), Township Four (4) South, Range One (1) West, Mount Diablo Base and Meridian, according to the United States' Official Plat and Survey, and containing one hundred and twenty (120) acres.

EXCEPTING, however, there from a tract of four and sixty hundredths (4 60-100) acres, being all that portion of the said northeast quarter and of the southwest quarter of Section Twelve (12) lying north of the fence forming the northerly boundary line of the right of way of the Western Pacific Railroad Company, known as the "railroad," fence and which said four and sixty hundredths (4 60-100) acres is described as follows, to-wit:—

Beginning at a point in the fence between Klinger and Krebs' orchard and the Western Pacific Railroad, thirty-five and fifty-five hundredths (35.55) chains north of the quarter section corner between Sections Twelve (12) and Thirteen (13) and at a point where the dividing line between the southeast quarter and the southwest quarter of Section Twelve (12) intersects said fence; and running thence north two and fifteen hundredths (2.15) chains; thence north eighty-six (86°) degrees, twenty-eight (28') minutes west, eighteen and eighty hundredths (18.80) chains to a point in Klinger and Krebs' west fence; thence along said fence, south three and ninety hundredths (3.90) chains; thence, north eighty-eight (88°) degrees east, three and thirty hundredths (3.30) chains; thence, south forty-four and one-half (44½°) degrees east, one and eighty hundredths (1.80) chains; thence north sixty-eight and one half (68½°) degrees east, six and ten hundredths (6.10) chains; thence south eighty-six and three-fourths (86¾°) degrees east, eight and eighty hundredths (8.80) chains, to the place of beginning, being the tract of land conveyed by John F. Mehrmann to Henry Krebs, Jr., by deed dated August 4th, 1888, and recorded in the office of the County Recorder of Alameda County aforesaid September 17, 1888, in Libre 356 of Deeds, at page 125.

3. A right of way and a right of ingress and egress through said four and sixty hundredths (4 60-100) acres, last above described, subject to the condition hereinafter expressed (which said right of way and right of ingress and egress), subject to said condition, was reserved to said John F. Mehrmann in and by said deed last above cited and referred to), which said right of way and right of ingress and egress are described as follows, and which said condition is set forth next hereinafter, to-wit:—

A right of way beginning at a point where Klinger and Krebs' said west fence intersects the railroad fence; thence easterly, along said railroad fence and following the course thereof, to a roadway in a gulch leading from said land through a gate and under the said railroad to the County Road; thence at right angles south fifteen (15) feet; thence westerly, parallel with and following the course of said railroad fence, to a point two hundred (200) feet distant from said Klinger and Krebs' west fence—said right of way to be a uniform width of fifteen (15) feet to said last named point; thence northwesterly to a point in said Klinger and Krebs' west fence distant thirty (30) feet from the said point of intersection of the line of said Klinger and Krebs' west fence with the line of said railroad fence; thence southerly, along the said Klinger and Krebs' west fence, to the point of beginning; and also and together with the right of ingress and egress over said roadway in said gulch through said gate; but said right of way is upon the condition that the said party of the second part, its successors and assigns shall at its and their own expense maintain and keep erected and built a good and substantial fence along the northerly boundary of said right of way, and that said right of way shall continue and exist and be reserved from said four and sixty hundredths (4 60-100) acres to said party of the second part, its successors and assigns, only so long as it and they shall keep said fence in good repair.

III.

Lots numbered One (1), Two (2), Three (3) and Four (4), in Section Thirteen (13), Township (4) South, Range One (1) West, Mt. Diablo Base and Meridian, according to the United States' Official Plat and Survey, and containing one hundred and ten and thirty-five hundredths (110 35-100) acres, more or less.

IV.

All that portion of the north half of the southeast quarter of Section Twelve (12) Township Four (4) South, Range One (1) West, Mount Diablo Base and Meridian—which portion lies southerly, southwesterly and westerly of the center line of Alameda Creek—containing twenty (20) acres, more or less.

V.

All that portion of the southeast quarter (S. E. $\frac{1}{4}$) of the southeast quarter (S. E. $\frac{1}{4}$) of Section Twelve (12), in Township Four (4) South, Range One (1) West, Mount Diablo Base and Meridian, containing forty (40) acres—which portion lies south southerly, southwesterly and westerly of the County Road now running through said forty (40) acre tract of land (which said County Road is sixty-six (66) feet in width), and which portion is about or is thirty-three (33) acres, more or less.

But there is reserved, however, from the effect of this conveyance, all the pipe that was, on April 14, 1898, laid on said property last above described, to-wit: said thirty-three acre tract, and also the right to enter upon said last-above described premises at any and all times (but without interference or damage to any improvements of the party of the second part hereto, its successors or assigns) to repair said pipe of the tunnel to and into which runs the same from causes rendered necessary by accident or otherwise, and to repair and replace said pipe; and it is agreed that in case the said tunnel, with which said pipe is connected, shall cave in, then Edward D. Feusier, Mary Philomene Feusier, his wife, and Henry Edward Clermont Feusier and Emily Locke Feusier, his wife, shall have the right to shovel out or clean out the dirt and rocks therefrom; but they must so place the same that they do not injure any of the works or improvements of the party of the second part hereto, its successors or assigns—it being understood that the said Edward D. Feusier, Mary Philomene Feusier, his wife, Henry Edward Clermont Feusier and Emily Locke Feusier, his wife, are the grantors of the grantor of this grantor, and that the conditions and reservations in this paragraph and subsequently herein contained in reference to said thirty-three acre tract are the same as mentioned in that certain indenture dated April 14, 1898, between said Edward D. Feusier, Mary Philomene Feusier, his wife, Henry Edward Clermont Feusier and Emily Locke Feusier, his wife, as parties of the first part, and William Leviston, as party of the second part.

If the party of the second part hereto, its successors or assigns, for any of its or their own purposes, has to or desires, or have to or desire, to alter or change said pipe line or tunnel, it or they shall do the same at its or their own exclusive expense, and in such manner in every respect as not to interfere thereby with the supply or quality of water which may be drawn from said tunnel and through said pipe by said Edward D. Feusier, Mary Philomene Feusier, his wife, Henry Edward Clermont Feusier and Emily Locke Feusier, his wife—the parties above mentioned and referred to; and the party of the second part hereto, its successors or assigns, shall be responsible for all damages that may occur to said last named parties by reason of loss or diminished supply of water in said tunnel, or in said pipe, caused by the acts of negligence of the party of the second part hereto, its successors or assigns and also for all costs that said parties may be put to in order to enforce collection of said damages.

There is also reserved to the said above-named parties perpetually the right to pipe water from said tunnel (which is a tunnel on the hill side from which they now draw a supply of water) through a pipe not over one (1) inch in diameter, and to have, take and utilize water from said tunnel for their purposes—it being understood that the reservations contained in this paragraph, number V, are the same reservations and no other than those described in said deed dated April 14th, 1898, and made by said Edward D. Feusier, Mary Philomene Feusier, his wife, and Henry Edward Clermont Feusier and Emily Locke Feusier, his wife, to the said William Leviston, which deed was recorded in the office of the County Recorder of said County of Alameda in the month of April, 1898.

VI.

Beginning at the northwest corner of Section Eighteen (18), Township Four (4) South, Range One (1) East, being also the southwest corner of Section Seven (7), Township Four (4) South, Range One (1) East, Mount Diablo Base and Meridian, and running thence along the said Mount Diablo Meridian line south one-half ($\frac{1}{2}$) degree east, seven (7) chains, eighteen (18) links, to a stake from which a white oak tree, about two and one-half ($2\frac{1}{2}$) feet in diameter and leaning to the southeast, bears north seventy-eight and one-fourth ($78\frac{1}{4}$) degrees east, twenty-eight (28) links distant; thence east thirteen (13) chains, fifty-three (53) links, to the corner of a fence in a clump of maple trees; thence along a fence north seven and three-fourths ($7\frac{3}{4}$) degrees west, seven (7) chains, ninety-two (92) links, to the center of the southern branch of Alameda Creek; thence down and along the center line of said southern branch of said creek, south seventy-nine and three-fourths ($79\frac{3}{4}$) degrees west, two (2) chains, fifty-five (55) links; thence north eighty-nine and one-half ($89\frac{1}{2}$) degrees west, one (1) chain fifty links; thence north eighty-five (85°) degrees west, three (3) chains, sixty-nine

(69) links; thence north eighty-two and three fourths ($82\frac{3}{4}^\circ$) degrees west, four (4) chains, eighty-eight (88) links, to the Mount Diablo Meridian line; thence thereon south one-half ($\frac{1}{2}^\circ$) degree east, one (1) chain, sixteen (16) links, to the place of beginning; containing nine and eighty-one hundredths (9 81-100) acres, more or less:

And also a privilege of right of way over and across the lands of Calvin T. and Abby M. Blake out to the County Road; also the right to take water from a spring, near to the line of land of the said Calvin T. Blake and Abby M. Blake, for family use — being the same property, rights and privileges described in that certain deed, dated April 15th, 1889, made by Calvin T. Blake and Abby M. Blake, his wife, to H. J. Plomteaux, and recorded in the office of the County Recorder of the County of Alameda, aforesaid, in Liber 369 of Deeds, at page 398:

VII.

FIRST: Commencing at Station marked "V. S. J. No. 9" of the Rancho el Valle de San Jose, and running thence north one-half ($\frac{1}{2}^\circ$) degree west, four and seventy-five hundredths (4.75) chains to the southerly line of the one hundred (100) foot right of way of the Central Pacific Railroad Company; thence along said line of said right of way northeasterly seventy and eighty hundredths (70.80) chains to the northerly line of the land of H. Behrens; thence along the land of said Behrens north seventy-four (74°) degrees east, four and fifteen hundredths (4.15) chains to the west line of a fifty (50) foot County Road leading from Sunol to Pleasanton; thence along said last-mentioned line south thirteen and one-half ($13\frac{1}{2}^\circ$) degrees east, eighteen and eighty-four hundredths (18.84) chains; south five (5°) degrees east, ten (10) chains; south seven (7°) degrees west, five and forty hundredths (5.40) chains; south twelve and one-half ($12\frac{1}{2}^\circ$) degrees west, three and eighty hundredths (3.80) chains; south thirty-one and one-half ($31\frac{1}{2}^\circ$) degrees west, nine and twenty-seven hundredths (9.27) chains; south forty-six and one-half ($46\frac{1}{2}^\circ$) degrees west, two and eighty-eight hundredths (2.88) chains; thence, leaving said road and crossing Laguna Creek, north fifty-four and one-half ($54\frac{1}{2}^\circ$) degrees west, seven (7) chains; then south seventy-nine (79°) degrees west, seven (7) chains; thence south seventy-five (75°) degrees west, eleven (11) chains; thence south sixty-three and one-half ($63\frac{1}{2}^\circ$) degrees west, two (2) chains; thence south forty-four (44°) degrees west, twelve and ninety hundredths (12.90) chains, to the place of commencement; containing forty-three and fifty-six hundredths (43.56) acres of land and being a portion of Lot Number One (1) of the Sunol portion of the Rancho el Valle de San Jose.

EXCEPTING therefrom that certain lot, piece or parcel of land, conveyed by Thomas F. Bachelder and Joseph A. Johnson to Charles W. Crane, by deed dated April 18th, 1884, recorded in Book 270 of Deeds, at page 86, Records of Alameda County, and bounded and particularly described as follows, to wit:

(a) Commencing at a point in the eastern line of the one hundred foot (100) right of way of the Western Pacific Railroad Company, south one and one-fourth ($1\frac{1}{4}^\circ$) degrees west, thirty-three and sixty-eight hundredths (33.68) chains distant from a point where the line dividing the Bernal and Sunol portions of the Rancho el Valle de San Jose intersects said eastern line of said right of way; running thence south eighty-eight and three-fourths ($88\frac{3}{4}^\circ$) degrees east, twenty-seven hundredths (.27) chains; thence south twenty-five and three-fourths ($25\frac{3}{4}^\circ$) degrees east, four and sixty-two hundredths (4.62) chains; south eleven (11°) degrees east, four and fifty hundredths (4.50) chains; south twenty (20°) degrees west, four (4) chains; south thirty-nine (39°) degrees west, four (4) chains; south fifty-seven (57°) degrees west, three (3) chains; south eighty-two and three-fourths ($82\frac{3}{4}^\circ$) degrees west, two (2) chains; south eighty (80°) degrees west, seven and twenty-seven hundredths (7.27) chains; south fifteen and one-half ($15\frac{1}{2}^\circ$) degrees west, fifty hundredths (.50) chains, to the southeast line of said right of way of the Western Pacific Railroad Company; thence, along said right of way, north sixty-six and one-half ($66\frac{1}{2}^\circ$) degrees east, three (3) chains; north fifty-seven (57°) degrees east, three (3) chains north; forty-nine (49°) degrees east, two (2) chains; north forty-two and one-half ($42\frac{1}{2}^\circ$) degrees east, three (3) chains; north thirty-two and one-half ($32\frac{1}{2}^\circ$) degrees east, three (3) chains; north twenty-three and one-half ($23\frac{1}{2}^\circ$) degrees east, three (3) chains; north fourteen (14°) degrees east, three (3) chains; north forty-two and one-half ($42\frac{1}{2}^\circ$) degrees east, three and fifty-two hundredths (3.52) chains to the place of commencement, containing eight and sixty-two hundredths (8.62) acres, and being portion of lot Number One (1) of the Sunol portion of the Rancho el Valle de San Jose. Said tract of land is hereby designated as Tract Number Nine (9) of the Bachelder Rancho.

ALSO EXCEPTING therefrom that certain lot, piece or parcel of land conveyed by Thomas F. Bachelder and Joseph A. Johnson to Albins Andrade, by deed dated July 6th, 1885, recorded in Book 294 of Deeds, at page 298, Records of Alameda County and bounded and particularly described as follows, to-wit:—

(b) Commencing at a point where the exterior boundary of the Rancho el Valle de San Jose intersects the southerly line of the Central Pacific Railroad Company's right of way; running thence northeasterly along the southerly line of said right of way eight and fifty hundredths (8.50) chains; thence south twenty-four and one-fourth ($24\frac{1}{4}^\circ$) degrees east, one and sixty hundredths chains; thence south forty-four (44°) degrees west, eleven and ten hundredths (11.10) chains to Station V. S. J. No. 9

of the exterior boundary of said rancho; thence north one-half ($\frac{1}{2}$) degree west, four and seventy-five hundredths (4.75) chains, to the place of commencement, containing two and seventy-two hundredths (2.72) acres, and being portion of Lot Number One (1) of the Sunol portion of said rancho. Said tract of land is hereby designated as Tract Number Twenty-three (23) of the Bachelor Rancho.

SECOND: Commencing at the southwestern corner of Lot Number One (1), Block "E" as said lot and block are laid down, delineated and so designated on a certain map entitled "Map of Subdivision 'A' of Thermal Rancho, Sunol, Alameda County, California," and filed in the office of the Recorder of Alameda County, California, May 1st, 1898—said commencing point being forty (40) feet distant northerly from the northern line of the right of way of the Central Pacific Railroad Company and on the northern line of the County Road leading from Sunol to Niles as fenced; thence forty (40) feet from and parallel with said right of way line, north eighty-three (83°) degrees fifty-five (55') minutes west, fourteen and twenty-two hundredths (14.22) chains; north eighty-three (83°) degrees, twenty-one (21') minutes west, two and fifty-two hundredths (2.52) chains; north seventy-six (76°) degrees, five (5') minutes west, two and fifty-four hundredths (2.54) chains; north seventy-two (72°) degrees, thirty (30') minutes west, two and fifty-eight hundredths (2.58) chains; north sixty-nine (69°) degrees, fifty (50') minutes west, two and sixty-three (2.63) hundredths chains; north sixty-nine (69°) degrees, fifty-five (55') minutes west, two and sixty-six hundredths (2.66) chains; north seventy (70°) degrees west, five and thirty-two hundredths (5.32) chains; north seventy (70°) degrees, forty (40') minutes west, two and sixty-five hundredths (2.65) chains; north seventy-four (74°) degrees, fifty-three (53') minutes west, two and fifty-nine hundredths (2.59) chains; north eighty (80°) degrees, forty-eight (48') minutes west, two and fifty-four hundredths (2.54) chains; north eighty-six (86°) degrees, thirty-nine (39') minutes west, two and fifty-one hundredths (2.51) chains; and thence south 0 degrees, thirty (30') minutes east, sixty hundredths (.60) of a chain to the northern line of the Central Pacific Railroad; thence south eighty-three (83°) degrees, eighteen (18') minutes west, along said right of way line, six and twelve hundredths (6.12) chains; thence south 0 degrees, thirty (30') minutes east, crossing said right of way, two and forty-eight hundredths (2.48) chains, to the center of Alameda Creek; thence down the center line of Alameda Creek and along the boundary line of the property of the Spring Valley Water Works and H. J. Plomteaux, south sixty-eight (68°) degrees, thirty (30') minutes west, seven and forty-three hundredths (7.43) chains; south fifty-one (51°) degrees, thirty (30') minutes west, twelve (12) chains; south sixty-seven and three-fourths (67 $\frac{3}{4}$) degrees west, eight and twenty-seven hundredths (8.27) chains; south sixty-four (64°) degrees west, ninety hundredths (.90) of a chain; south seventy-nine and three-fourths (79 $\frac{3}{4}$) degrees west, three and forty six hundredths (3.46) chains; north eighty-nine and one-half (89 $\frac{1}{2}$) degrees west one and fifty hundredths (1.50) chains; north eighty-five (85°) degrees west three and sixty-nine hundredths (3.69) chains, north eighty-two and three-fourths (82 $\frac{3}{4}$) degrees west, four and eighty-eight hundredths (4.88) chains to the line dividing Section Seven (7), Township Four (4) South, Range One (1) East, from Section Twelve (12), Township Four (4) South, Range One (1) West, thence along said dividing line north 0 degrees, thirty (30') minutes west, thirty-eight and sixty hundredths (38.60) chains; thence north eighty-nine (89°) degrees, thirty (30') minutes east, eighty-eight and eighty-five hundredths (88.85) chains, to the western line of Subdivision Number Twenty-one (21) of the aforesaid Subdivision "A" of Thermal Rancho; thence along the boundary line of Subdivisions Number Twenty-one (21), Twenty (20), Nineteen (19), Eighteen (18), Thirty-one (31), and Blocks A, C, and E, south one-half ($\frac{1}{2}$) of a degree east, thirty-two and eight hundredths (32.08) chains to commencement; containing two hundred and seventy and seven hundredths (270.07) acres.

THIRD: Commencing at the southwestern corner of Subdivision Number Twenty-six (26), containing seven and thirty-one hundredths (7.31) acres, as said subdivision is shown and so designated on a certain map entitled "Map of Subdivision 'A' of Thermal Rancho, Sunol, Alameda County, California," and filed in the office of the Recorder of Alameda County, California, May 1st, 1888; thence along the southern boundary of said subdivision Number Twenty-six (26), north eighty-nine (89°) degrees, thirty (30') minutes east, nine and thirty-seven hundredths (9.37) chains, to the northwestern corner of Subdivision Number Twenty-five (25); thence along the western boundary of Subdivision Number Twenty-five (25), Twenty-four (24), Twenty-three (23), Twenty-two (22), Twenty-one (21), south one-half ($\frac{1}{2}$) degree east, twenty (20) chains; thence south eighty-nine and one-half (89 $\frac{1}{2}$) degrees west, eighty-eight and eighty-five hundredths (88.85) chains to the line dividing Township Four (4) South, Range One (1) East, from Township Four (4) South Range (1) West Mount Diablo Base and Meridian; thence along said dividing line north one half ($\frac{1}{2}$) degree west, thirteen and seventy hundredths (13.70) chains; and north one (1°) degree west, twenty-six (26) chains, to the northwest corner of Section Seven (7), Township Four (4) South, Range One (1) East; thence along the line dividing Sections Seven (7) and Six (6), north eighty-nine and one-half (89 $\frac{1}{2}$) degrees east, seventy-four and twenty hundredths (74.20) chains, to the southwestern boundary line of a tract of land containing one hundred (100) acres, and being the tract of land described by the third description in deed from R. M. McKillican, Sheriff of Alameda County,

California, to J. S. Dungan by deed dated August 7th, 1893; thence along said boundary line of said one hundred (100) acre tract, south thirty-one and one-fourth ($31\frac{1}{4}$) degrees east, eight and eighty-two hundredths (8.82) chains; thence north fifty-eight and one-fourth ($58\frac{1}{4}$) degrees east, one and nineteen hundredths (1.19) chains; thence, leaving said boundary line, south one-half ($\frac{1}{2}$) degree east, twelve and seventy-four hundredths (12.74) chains to commencement; containing three hundred and thirty-two and eighteen hundredths (332.18) acres.

FOURTH: Commencing at the most western corner of a tract of land containing one hundred (100) acres, as said tract is described in the third description of deed from R. M. McKillican, Sheriff of Alameda County, California, to J. S. Dungan, by deed dated August 7th, 1893, and recorded in book 538 of Deeds, at page 473, Alameda County Records; thence along the southwestern boundary line of said one hundred (100) acre tract, south thirty-one and one-fourth ($31\frac{1}{4}$) degrees east, thirty-five and fifty-eight hundredths (35.58) chains, to the line dividing Sections Six (6) and Seven (7), Township Four (4) South, Range One (1) East; thence south eighty-nine and one-half ($89\frac{1}{2}$) degrees west, along said section line, seventy-four and twenty hundredths (74.20) chains, to the southwest corner of said Section Six (6); thence north one (1) degree west, eighty and seventeen hundredths (80.17) chains, to the northwest corner of Section Six (6); thence along the northern boundary line of Section Six (6), north eighty-nine and one-half ($89\frac{1}{2}$) degrees east, twenty-six and eighty hundredths (26.80) chains, thence north eight and one-fourth ($8\frac{1}{4}$) degrees west, twenty-four and sixty hundredths (24.60) chains; south seventy-three (73°) degrees east, nine and eighty-two hundredths (9.82) chains; south forty-eight and one-half ($48\frac{1}{2}$) degrees east, thirteen and forty-five hundredths (13.45) chains; south forty-two (42°) degrees east eleven and twenty hundredths (11.20) chains; south forty-five (45°) degrees east, five and eighty-eight hundredths (5.88) chains; south thirty-seven and one-half ($37\frac{1}{2}$) degrees east, three and fifteen hundredths (3.15) chains; south twenty-two and one-fourth ($22\frac{1}{4}$) degrees east, two and sixty-five hundredths (2.65) chains; south twenty-eight (28°) degrees east, four and twenty-two hundredths (4.22) chains; south twenty-six and one-half ($26\frac{1}{2}$) degrees east; one and ninety hundredths (1.90) chains; south twenty-seven and three-fourths ($27\frac{3}{4}$) degrees east, four (4) chains; south thirty-six (36°) degrees east, five and ninety-hundredths (5.90) chains; south twenty-nine (29°) degrees east, three and eighteen hundredths (3.18) chains; south forty and three-fourths ($40\frac{3}{4}$) degrees east, one and fifty-two hundredths (1.52) chains; south fifty-four and one-half ($54\frac{1}{2}$) degrees, east, five and fifty-six hundredths (5.56) chains; south sixty-two and one-fourth ($62\frac{1}{4}$) degrees east, five and fifty hundredths (5.50) chains; south fifty-three (53°) degrees east, five and twenty-seven hundredths (5.27) chains; south twenty-one (21°) degrees east, one and fifty hundredths (1.50) chains; south thirty-nine and one-fourth ($39\frac{1}{4}$) degrees west, eighty-five hundredths (.85) of a chain; south five and one-fourth ($5\frac{1}{4}$) degrees west, sixty hundredths (.60) of a chain south twenty four (24°) degrees west, eighty hundredths (.80) of a chain; south seventeen and one-half ($17\frac{1}{2}$) degrees east, forty hundredths (.40) of a chain; thence south sixty one (61°) degrees west, to and along the northwestern boundary of aforesaid one hundred (100) acre tract twenty-eight and eighty-nine hundredths (28.89) chains to commencement; containing five hundred and sixty-nine and ninety one hundredths (569.91) acres:

TOGETHER with any and all water rights, rights of way, servitudes and easements of all and every nature (whether appurtenant to the properties hereinabove described or howsoever held), acquired under and by virtue of that certain deed from Edward E. Potter et al, to the Sunol Land and Improvement Company dated December 24th, 1887, recorded January 4th, 1888, in Book 338 of Deeds, at page 456, Records of Alameda County; also any and all water rights, easements, servitudes, rights of way or privileges of whatsoever nature that may have been reserved by the said Sunol Land and Improvement Company in any and all deeds heretofore conveying lots, pieces or parcels of land within the tract known as the Thermal Rancho, in Alameda County, California, fronting on or upon the creek known as and sometimes called Sinbad Creek or Bachelder Creek, or which may in any way belong to said party of the first part and have been or may be used in connection with or acquired, or reserved for, or in any way appurtenant or belonging to the lands hereby granted, or any part or parts thereof.

VIII.

FIRST: Beginning at the most southerly corner of a tract of land heretofore conveyed to Jose B. Almada by Antonio M. Leonardo et al., by deed dated September 1st, 1897, and recorded in Book 643 of Deeds, at page 430, in the Recorder's office of Alameda County, California, which point is also the most eastern corner of a tract of land heretofore conveyed to George W. Buttner by Elizabeth Buttner, by deed dated January 20th, 1895, and recorded in Book 508 of Deeds, at page 51, in the Recorder's office of Alameda County, California, and running thence south thirty-three (33°) degrees west, two and twenty hundredths (2.20) chains; thence south eighty-nine and one-half ($89\frac{1}{2}$) degrees west, one and ninety-three hundredths (1.93) chains;

thence north twenty-eight (28°) degrees east, three and thirty hundredths (3.30) chains, to the southwesterly line of the land heretofore conveyed to Jose B. Alameda by the deed hereinabove referred to, and thence along said line south fifty-three (53°) degrees east, one and ninety hundredths (1.90) chains to the place of beginning.

SECOND: Beginning at a point on the southerly line of the one hundred (100) feet right of way of the Central Pacific Railroad Company, which point is the most westerly corner of a tract of land conveyed to Antonio Marchardo Leonardo by a deed from Elizabeth Buttner, dated June 4th, 1888, recorded in the office of the County Recorder of said Alameda County, in Liber 349 of Deeds, at page 262; and running thence south fifty-three (53°) degrees east, three and fifty-nine one hundredths (3.59) chains, to the exterior boundary of the Rancho el Valle de San Jose; thence north thirty-three (33°) degrees east, along said boundary line, seventy-five (75) feet; thence north fifty-three (53°) degrees west, three and fifty one-hundredths (3.50) chains, more or less, to the said-line of the one hundred (100) foot right of way of the Central Pacific Railroad Company, and thence south thirty-nine and one-fourth (39¼°) degrees west, along said right of way, seventy-five (75) feet, more or less, to the point of beginning; containing (1.79) one and seventy-nine hundredths acres.

THIRD: Beginning at Station V. S. J. 9, on the exterior boundary of the Rancho el Valle de San Jose, and running thence along said boundary south thirty-three (33°) degrees west, two and twenty-three one-hundredths (2.23) chains, to the most eastern corner of the lands heretofore conveyed by Antonio M. Leonardo and wife to Jose B. Almada, by deed dated September 1st, 1897, and recorded in Book 643 of Deeds, at page 430, Alameda County Records; thence along the northeastern boundary of said Alameda lands, north fifty-four and three-fourths (54¾°) degrees west, one and fifty one-hundredths (1.50) chains (given in old deed as: north fifty-three (53°) degrees west) to a point four (4) feet below bluff bank of creek; thence north forty-nine and three-fourths (49¾°) degrees east, fifty-three one-hundredths (0.53) of a chain; north forty-one (41°) degrees east, seventy-three one-hundredths (0.73) of a chain; north forty-two and one-fourth (42¼°) degrees east, one and ten one-hundredths (1.10) chains; north thirty-four and one-half (34½°) degrees east, one and forty one-hundredths (1.40) chains, to the exterior boundary of said rancho; thence south three-fourths (¾°) of a degree east, one and eighty three one-hundredths (1.83) chains to the place of beginning; containing thirty-six one-hundredths (36/100) of an acre, and being a portion of the land heretofore conveyed by Elizabeth Buttner to Antonio Machardo Leonardo by deed dated June 4th, 1888, and recorded in Book 349, of Deeds at page 262, Alameda County Records:

IX.

FIRST: That certain tract, being a portion of the land set apart to Charles Hadsell in the Decree of Partition in the suit of Charles Hadsell et al., against P. O. Minor et al., in the District Court of the Third Judicial District of the State of California, in and for the County of Alameda, and numbered 2438, and beginning at a redwood post six (6) inches square, marked C. C., sunk in the ground at the intersection of the northern boundary of the Sunol portion of the Rancho el Valle de San Jose with the center of the road leading from Patterson's Pass to the Mission of San Jose; thence following the center of said road south sixty-nine (69°) degrees west, four and ninety-two hundredths (4.92) chains; south thirty and one half (30½°) degrees west, eight and fifty-nine one-hundredths (8.59) chains; south forty-one and one-half (41½°) degrees west, seven and fifty-nine one-hundredths (7.59) chains; south fifty-three and one-half (53½°) degrees west, eighteen and twenty one-hundredths (18.20) chains; south eighty-two and one-fourth (82¼°) degrees west, twelve and three one-hundredths (12.03) chains, to a redwood post six (6) inches square, marked B. B., sunk in the ground, from which a white oak tree, five (5) feet in diameter bears south three and three fourths (3¾°) degrees east, one and fifty-three one-hundredths (1.53) chains; thence, leaving said road, south fifteen and ninety-two one-hundredths (15.92) chains; south seventy-six and one-half (76½°) degrees east, forty-four and seventy-eight hundredths (44.78) chains; south seventeen (17°) degrees east, one and thirty-four one-hundredths (1.34) chains, to a post six (6) inches square, marked Y, from which a white oak tree, forty (40) inches in diameter, bears north thirty-two (32°) degrees west, one and forty-three one hundredths (1.43) chains; thence south twelve (12°) degrees east, twenty-nine and twenty-six one-hundredths (29.26) chains; south five and one half (5½°) degrees west, forty and sixty-eight one-hundredths (40.68) chains to a redwood post six (6) inches square, marked X; thence west one hundred and thirty (130.00) chains to a redwood post, marked F. F., in the center of the County Road leading from Sunol to Mission San Jose and upon the right bank of the Calaveras Creek; thence south forty-two and one-fourth (42¼°) degrees west, twenty-five and twenty-eight one-hundredths (25.28) chains; to a redwood post six (6) inches square, marked D. D., in center of said road and upon the left bank of said Calaveras Creek; thence, meandering said bank of said creek north, twenty-four (24°) degrees east, one (1.00) chain; north sixty-eight (68°) degrees west, eighteen and sixty one-hundredths (18.60) chains; north twenty-five (25) degrees west, twenty-two (22.00) chains; north thirty-five (35°) degrees west, seventeen (17.00) chains; north seventy-four (74°) degrees west, eleven

(11) chains, to a redwood post six (6) inches square on high bluff and upon the western boundary of said rancho; thence along said boundary, north, twenty-nine (29°) degrees west, six and seventeen hundredths (6.17) chains, to lands of the Spring Valley Water Works; thence, along the lands of said Spring Valley Water Works, north forty-six (46°) degrees east, twenty and sixty-eight one-hundredths (20.68) chains; north twenty-four (24°) degrees west, seven and ninety-nine one-hundredths (7.99) chains; south fifty-five and one-half (55½°) degrees west, ten and twelve one-hundredths (10.12) chains; south eighty-eight and one-fourth (88¼°) degrees west, ten and thirty-three one-hundredths (10.33) chains; north eighty-four and one half (84½) degrees west, nine and ninety-two one-hundredths (9.92) chains; north forty-seven (47°) degrees west, twenty-four and seventy-three one-hundredths (24.73) chains; north fifty-five and one-half (55½°) degrees west, four and eleven one-hundredths (4.11) chains; north thirty-eight and three-fourths (38¾°) degrees west, eleven and twenty-two one-hundredths (11.22) chains; north twenty and three-fourths (20¾°) degrees east, four and sixty-seven one-hundredths (4.67) chains, to the westerly line of the one-hundred (100) foot right of way of the Central Pacific Railroad; thence along said railroad right of way south sixty-nine and one-half (69½°) degrees east, one and twelve one-hundredths (1.12) chains; south seventy-six (76°) degrees east, ten and ninety one-hundredths (10.90) chains; south eighty-three and one-fourth (83¼°) degrees east, twenty-four and twenty-nine one-hundredths (24.29) chains; south eighty-seven and three-fourths (87¾°) degrees east, three and fifty-one one-hundredths (3.51) chains; thence along the railroad reservation at Sunol Station, south one-half (½°) degree east, two and twenty one-hundredths (2.20) chains; north eighty-two and one-half (82½°) degrees east, seven and fifty-five one-hundredths (7.55) chains; north seventy-one and one-half (71½°) degrees east, four and seventy-six one-hundredths (4.76) chains, to north-west corner of Frank Letz's lot; thence south twenty-eight (28°) degrees east, three and nine one-hundredths (3.09) chains; south seventy-six and one-fourth (76¼°) degrees east, ten and nine one-hundredths (10.09) chains; north thirteen and three-fourths (13¾°) degrees east, four and fifty-four one-hundredths (4.54) chains; to the southerly line of County Road Number 1469; thence north sixty-three and one-half (63½°) degrees east, one and fifty-seven one-hundredths (1.57) chains, to the northerly line of County Road Number 1469; thence north thirteen (13°) degrees east, seven and seventy-two one-hundredths (7.72) chains; to the Sunol Glen School House lot; thence north thirty-nine (39°) degrees east, two and eleven one-hundredths (2.11) chains; north eleven and three-fourths (11¾°) degrees west, three and ninety one-hundredths (3.90) chains; north forty-seven and three fourths (47¾°) degrees west, sixty-four one-hundredths (0.64) chains; to railroad reservation line; thence north thirty-nine (39°) degrees east, one and eighty-one one-hundredths (1.81) chains; north eighty-nine and one-half (89½°) degrees east, two and thirty-two one-hundredths (2.32) chains, to Station V. S. J. Number Ten (10) of the exterior boundary of the Rancho el Valle de San Jose; thence along said boundary north thirty-three (33°) degrees east, five and seventy one-hundredths (5.70) chains, to Station V. S. J. No. Nine (9); thence north forty-four (44°) degrees east, twelve and ninety one-hundredths (12.90) chains; thence along the lands of the Sunol Land and Improvement Company, north sixty-two and one-half (62½°) degrees east, two (2.00) chains; north seventy-five (75°) degrees east, eleven (11.00) chains; north seventy-nine (79°) degrees east, seven (7.00) chains; south fifty-four and one-fourth (54¼°) degrees east, seven and thirty-eight one-hundredths (7.38) chains; to center of road leading from Sunol to Pleasanton; thence along the center line of said road, north forty-six and one-half (46½°) degrees east, two and ninety-nine one-hundredths (2.99) chains; north thirty-one and one-half (31½°) degrees east, nine and thirty-eight one-hundredths (9.38) chains; north twelve and one-half (12½°) degrees east, three and eighty-eight one-hundredths (3.88) chains; north seven (7°) degrees east, five and ninety-five one-hundredths (5.95) chains; north five (5°) degrees west, ten and seven one-hundredths (10.07) chains; north thirteen and one-half (13½°) degrees west, eighteen and eighty-eight one-hundredths (18.88) chains, to the southerly line of the lands of Charles Duerr; thence north seventy-four and one-half (74½°) degrees east, twelve and sixty-six one-hundredths (12.66) chains; to the northern boundary of the Sunol portion of the Rancho el Valle de San Jose; thence along said boundary, south seventy-four and one-half degrees east, one hundred and sixteen and forty-five one-hundredths (116.45) chains, to place of beginning; containing two thousand three hundred and thirty-two and eighty-nine one-hundredths (2,332.89-100) acres, after deducting the following tracts, described as lots J and K, as said lots are described in the Field Notes and laid down on the map accompanying the Report of the Commissioners, in the suit of Charles Hadsell et al. vs. Peter O. Minor et als., to partition the Sunol portion of the Rancho el Valle de San Jose.

And also all water rights of any and every kind, and canals, ditches, conduits, water-ways, dams, dam-sites, right of way, easements, privileges and rights appurtenant or attached to, or heretofore or now in any way used in connection with said lands, or any part or parts of them, and also all water-rights of any and every kind, and canals, ditches, conduits, water ways, dams, dam-sites, rights of way, easements, privileges, and rights heretofore or now owned or possessed by the party of the first part (and not by grant or conveyance heretofore disposed of by it) in or in connection with Alameda Creek and Laguna Creek and Calaveras Creek (in said Alameda County), or their respective or any of their respective tributaries or feeders, or the waters of said

respective creeks, or their said respective tributaries or feeders, or the use and means of use of said waters, or any of them, and also all rights of diversion of said waters, or any of them.

Beginning at a redwood post, six (6) inches square, marked A. A., in mound with pits, standing upon the south boundary of the Rancho el Valle de San Jose, from which a white oak tree, eighteen (18) inches in diameter bears north two and fifty-nine one-hundredths (2.59) chains; thence north one hundred and sixty-five and twenty-two one-hundredths (165.22) chains to a redwood post six (6) inches square marked E. E., in mound with pits, from which a white oak tree, three (3) feet in diameter, bears north fifteen (15°) degrees east, two and twenty-five one-hundredths (2.25) chains; thence west one hundred and eighty-five and forty-seven one-hundredths (185.47) chains to redwood post six (6) inches square, marked F. F., sunk in the ground in the center of the road leading to the Mission San Jose upon the right bank of Calaveras Creek; thence south forty-two and one-half (42½°) degrees west, twenty-five and twenty-eight one-hundredths (25.28) chains to redwood post six (6) inches square, marked D. D., sunk in the ground in the center of said road upon the left bank of said Calaveras Creek; thence meandering said bank up stream south eighty-three (83°) degrees east, six (6.00) chains; south fifty and one-half (50½°) degrees east, twelve chains (12.00) south twenty-two and one-half (22½°) degrees east, three (3.00) chains; south twenty (20°) degrees west, six (6.00) chains south thirteen (13°) degrees east, twelve (12.00) chains; south twenty-five (25°) degrees east, thirty-seven (37.00) chains; south twenty-eight (28°) degrees east, thirteen (13.00) chains; south forty-one and one-half (41½°) degrees east, five and seven one-hundredths (5.07) chains; south twenty-one and one-half (21½°) degrees east, fourteen and ninety-three one hundredths (14.93) chains; south fifty (50°) degrees east, five and ninety one-hundredths (5.90) chains; south ten (10°) degrees east, twelve and sixty-seven one-hundredths (12.67) chains to a white oak stump fifteen (15) inches in diameter, thence south twenty-nine and one-fourth (29¼°) degrees east, eleven and fifty one-hundredths (11.50) chains to a sycamore tree thirty (30) inches in diameter, being the southeast corner of land of C. Murphy; thence south thirty-six and one-fourth (36¼°) degrees east, two and thirty one-hundredths (2.30) chains; to an oak stump one (1) foot in diameter; south twenty-one (21°) degrees east, seventeen and ninety-five one-hundredths (17.95) chains to a red oak tree; thence south thirty-one and one-fourth (31¼°) degrees east, ten (10.00) chains to an oak stump; thence south seven (7°) degrees east; fifteen and ten one-hundredths (15.10) chains to a dead red oak tree; thence south twenty-two and one-half (22½°) degrees east, four and fourteen one-hundredths (4.14) chains to an oak tree; thence south four and one-fourth (4¼°) degrees west, two and fifty-eight one-hundredths (2.58) chains south eleven and one-half (11½°) degrees east, six and seventy-eight one-hundredths (6.78) chains; south fifty-one (51°) degrees east, four and forty one-hundredths (4.40) chains; south five and one-fourth (5¼°) degrees east, three (3.00) chains; south fourteen and three-fourths (14¾°) degrees east, four (4.00) chains; south twenty-five and one-fourth (25¼°) degrees east, four (4.00) chains; south fifteen and three-fourths (15¾°) degrees east, four (4.00) chains; south forty-five and one half (45½°) degrees east, three and fifty one-hundredths (3.50) chains; south fifty-seven and one-fourth (57¼°) degrees east, ten (10.00) chains; south thirty-one and one-fourth (31¼°) degrees east, five (5) chains; south twenty-three (23°) degrees east, two and thirty-three one-hundredths (2.33) chains; south sixteen and one-half (16½°) degrees east, three and seventy one-hundredths (3.70) chains; south twenty-three and one-half (23½°) degrees east, three (3.00) chains; south thirty-four (34°) degrees east, three (3.00) chains; south thirty (30°) degrees east, two (2.00) chains; south seventeen and three-fourths (17¾°) degrees east, five (5.00) chains; south twenty-four and one-half (24½°) degrees east, four (4.00) chains; south thirty-six and three-fourths (36¾°) degrees east, one and thirty-two one-hundredths (1.32) chains; south forty and one-fourth (40¼°) degrees east, two (2.00) chains to a redwood post six (6) inches square, marked G. G., in a mound of stones upon the south boundary of said rancho, from which a sycamore tree, two and one-half feet in diameter bears north thirty-four and one-fourth (34¼°) degrees west, fifty-eight one-hundredths (0.58) chains; thence along said south boundary east, forty-two and ninety one-hundredths (42.90) chains to an oak tree two (2) feet in diameter, marked V. S. J. 18, on high ridge; thence north, along boundary of said rancho, eighty (80.00) chains to a redwood post six (6) inches square marked V. S. J. 19, in mound with pits; thence east forty-eight and seventy one-hundredths (48.70) chains to the place of beginning; containing three thousand two hundred and sixty and seventy-nine one-hundredths (3,260.79) acres, being Lot No. VI, as laid down and delineated upon the map accompanying the decree of partition in the case of Charles Hadsell et als., versus Peter O. Minor et als., in the District Court of the Third Judicial District of the State of California in and for the County of Alameda a certified copy of which decree is recorded in Liber 75 of Deeds, page 245, in the office of the County Recorder of said Alameda County, and including also in said description by metes and bounds the McLane Tract (containing nine and forty-one hundredths (9.40) acres), referred to in said decree and marked "L" upon said map, which McLane Tract is the same land designated as Plot Number Fifty-nine (59) upon the map accompanying the report of the referees in the partition suit of Augustine Bernal et al., versus Juan Pablo Bernal, et al., in said District Court, a certified copy of which decree is recorded in said Recorder's office in Liber 40 of Deeds, at page 315

ALSO:

Lots Numbers One (1), Two (2), Three (3) and Four (4) in Section Thirty-four (34), Township Four (4) South, Range One (1) East, Mount Diablo Base and Meridian, containing fifty-three and twenty-five one-hundredths (53.25) acres.

XI.

Beginning at the most southern corner of Plot Number Thirty-six (36) of the Bernal portion of the Rancho el Valle de San Jose, said beginning point being also the north-east corner of Plot Number Two (2) of the Sunol portion of said Rancho; thence along the lands of H. N. Morse, north one-half ($\frac{1}{2}$) degree west, thirteen and thirty-two one-hundredths (13.32) chains; north sixty-five (65°) degrees west, seven and ninety-one one-hundredths (7.91) chains; south sixty-four and three fourths ($64\frac{3}{4}$) degrees west, six (6.00) chains; north sixty (60°) degrees west, twelve and seventy-eight one-hundredths (12.78) chains; south fifty-five and three-fourths ($55\frac{3}{4}$) degrees west, seven and thirty-nine one-hundredths (7.39) chains; north eighty-eight and three fourths ($88\frac{3}{4}$) degrees west, six and eighty-five one-hundredths (6.85) chains; south fifty-one and one-fourth ($51\frac{1}{4}$) degrees west, forty-nine one-hundredths (0.49) chains; south twenty-eight and one-half ($28\frac{1}{2}$) degrees west, five and ten one-hundredths (5.10) chains; south seventy-five (75°) degrees west, nineteen and twenty-five one-hundredths (19.25) chains; north forty-four and one-fourth ($44\frac{1}{4}$) degrees west four and eighty-eight one-hundredths (4.88) chains; north three and three-fourths ($3\frac{3}{4}$) degrees east, fifteen and seventy-three one-hundredths (15.73) chains; north twenty and one-half ($20\frac{1}{2}$) degrees west, twenty-two and thirty-nine one-hundredths (22.39) chains to the center line of the County Road leading from Sunol through the Vallecitos to Livermore, known as the Patterson Pass Road; thence south sixty-nine and one-half ($69\frac{1}{2}$) degrees west, sixty one-hundredths (0.60) chains, to the lands of J. F. Hinrichs; thence along lands of Hinrichs south twenty and one-half ($20\frac{1}{2}$) degrees east, twenty and thirty one-hundredths (20.30) chains; south three and three-fourths ($3\frac{3}{4}$) degrees west, fifteen and seventy-nine one-hundredths (15.79) chains; south seventy-two (72°) degrees fifty (50') minutes west, two and three one-hundredths (2.03) chains; south thirty-two (32°) degrees five (5') minutes west, five and sixty-three one-hundredths (5.63) chains; south fifty-five (55°) degrees west thirteen and ninety-eight one-hundredths (13.98) chains; north twenty and one-half ($20\frac{1}{2}$) degrees west, forty-three and forty-seven one-hundredths (43.47) chains, to the center of aforesaid Patterson Pass Road; thence south sixty-nine and one-half ($69\frac{1}{2}$) degrees west, sixty (60) links to the H. N. Morse One Hundred (100) Acre Tract; thence along the same south twenty and one half ($20\frac{1}{2}$) degrees east, forty-seven and eight one-hundredths (47.08) chains; thence south sixty-seven and one-half ($67\frac{1}{2}$) degrees east, fifteen and ninety-eight one-hundredths (15.98) chains; south seven (7°) degrees east, thirty-six and fifty-nine one-hundredths (36.59) chains; north eighty-six and three-fourths ($86\frac{3}{4}$) degrees west, forty-four and nine one-hundredths (44.09) chains to the line dividing Plots One (1) and Two (2) of the Sunol portion of aforesaid rancho; thence south twelve (12°) degrees east, five and fifty-eight one-hundredths (5.58) chains; south five and one-half ($5\frac{1}{2}$) degrees west forty and sixty-eight one-hundredths (40.68) chains, to redwood post marked "X;" thence east sixty-five and thirty-two one hundredths (65.32) chains, to post marked "W" in channel of San Antonio Creek; thence up said channel north twenty-eight and one-half ($28\frac{1}{2}$) degrees east, five (5.00) chains; north fifty-five (55°) east, eight (8.00) chains; north four (4°) degrees east, ten (10.00) chains; north five (5°) degrees east, four (4.00) chains; north three and one-fourth ($3\frac{1}{4}$) degrees east, three chains (3.00) north thirty-one (31°) degrees east, six (6.00) chains; north forty-three and three-fourths ($43\frac{3}{4}$) degrees east, four (4.00) chains; north thirty-eight (38°) degrees east, five (5.00) chains; north forty-two and one-half ($42\frac{1}{2}$) degrees east, six (6.00) chains; north seventy-five and one-half ($75\frac{1}{2}$) degrees east, seven and nine one-hundredths (7.09) chains north seventy-four and one-half degrees ($74\frac{1}{2}$) degrees east, four (4.00) chains; north forty-eight and one-half ($48\frac{1}{2}$) degrees east, three (3.00) chains; north forty-one and one-half ($41\frac{1}{2}$) degrees east, six and twenty-four one-hundredths (6.24) chains; to a post marked "P"; thence, leaving said creek, north three-fourths ($\frac{3}{4}$) degrees west, forty-one and forty-nine one-hundredths (41.49) chains to the place of beginning; containing seven hundred and sixty-four and eighty-six one-hundredths (764.86) acres, and being a portion of plots Numbers Thirty-six (36) and Thirty-seven (37) of the Bernal portion and a portion of Plot Number Two (2) of the Sunol portion of the Rancho el Valle de San Jose.

XII.

Being a portion of the Sunol part of the Rancho el Valle de San Jose, beginning at the corner common to Lots Two (2) and Seven (7) of the Sunol portion of said Rancho el Valle de San Jose, as partitioned in the center of San Antonio Creek, and following the line of said creek in a zigzag course fifty-eight and nine one-hundredths (58.9-100) chains; thence south in a line between Lots Seven (7), Three (3) and Eight (8) of said Rancho, as partitioned, one hundred and twenty-nine (129) chains and fifty

(50) links; thence west, thirty-nine (39) chains and ninety-three (93) links; thence north eighty-five (85) chains and twenty-two (22) links to a stake marked "E. E."; thence east nine and eighty-five one-hundredths (9 85-100) chains to the place of beginning and containing four hundred and twenty-one (421) acres; being the same tract conveyed by Charles N. Felton to W. W. Brier by deeds dated December 1st, 1882, and January 11th, 1882, and recorded in the Recorder's office of Alameda County in Liber 244 of Deeds, page 392, and Liber 233 of Deeds, page 212, and being the same property conveyed by Phoebe A. Hearst and W. R. Hearst to George W. Hearst by deed dated March 24th, 1892, recorded March 29th, 1892, in Liber 464 of Deeds, page 265, Records of Alameda County; subject to right of way for road purposes as set forth in said deed from Phoebe A. Hearst and W. R. Hearst to George W. Hearst, hereinabove mentioned.

XIII.

Those certain tracts in Murray Township, being Lots Numbered Three (3), Eight (8) and Nine (9) on that certain map accompanying the Decree in Partition in the case of Charles Hadsell et al., vs. Peter O. Minor et al., in the District Court of the Third Judicial District of the State of California in and for the County of Alameda, a certified copy of which said decree is recorded in Liber 75 of Deeds, at page 345, in the office of the County Recorder of Alameda County; said lots being bounded and particularly described as follows, to-wit:

FIRST: Beginning at a redwood post six (6) inches square, marked "S" in mound of stones in channel of San Antonio Creek, from which a sycamore tree eighteen (18) inches in diameter bears south sixty-two and one-half ($62\frac{1}{2}$) degrees west, one and four one-hundredths (1.04) chains; thence south twenty-two and seventy-five one hundredths (22.75) chains to a redwood post, six (6) inches square, marked "R" in mound with pits, from which a white oak tree, five and one-half feet ($5\frac{1}{2}$) in diameter bears north forty-seven (47°) degrees west, three eighty-one one-hundredths (3.81) chains; thence east eighty (80.00) chains to a redwood post six (6) inches square marked "M," in mound of stones in channel in San Antonio Creek, from which a sycamore tree, two (2) feet in diameter, bears north three (3°) degrees west, sixty-five one-hundredths (0.65) of a chain, thence north fifty-three and twenty-five one-hundredths (53.25) chains to a redwood post, six (6) inches square, marked "N," in mound with pits, from a lone white tree, thirty (30) inches in diameter, bears south thirty-one (31°) degrees west, four and nineteen one-hundredths (4.19) chains thence west sixty-nine and fifty-seven one-hundredths (69.57) chains to a redwood post, six (6) inches square, marked "O," in mound with pits in line of board fence thence along said fence and projection thereof; south three-fourths ($\frac{3}{4}$) of a degree east, twenty-three (23.00) chains to a redwood post, marked "P," in mound of stones in channel of San Antonio Creek, from which a live oak tree, twenty (20) inches in diameter, bears south six and one-half ($6\frac{1}{2}$) degrees west, one and thirteen one-hundredths (1.13) chains, and a sycamore tree, one (1) foot in diameter, bears north twenty and one-half ($20\frac{1}{2}$) degrees west, sixty-seven one-hundredths (0.67) of a chain; thence meandering down the channel of said creek, south forty-one and one-half ($41\frac{1}{2}$) degree west, six and twenty-four one-hundredths (6.24) chains; south forty-eight and one-half ($48\frac{1}{2}$) degrees west, three (3.00) chains; south seventy-four and one-half ($74\frac{1}{2}$) degrees west, four (4.00) chains; to the point of beginning; containing three hundred and ninety-eight and fifty-three one-hundredths (398.53) acres, and being Lot Number Three (3) on said map, above referred to.

SECOND: Beginning at a redwood post, six (6) inches square, marked "Q," in mound with pits, from which an oak tree, three (3) feet in diameter, bears north sixty-one (61°) degrees west, one and thirty-two one-hundredths (1.32) chains; said post is the northwest corner of Lot Number Nine (9); thence south one hundred and six and seventy-five one-hundredths (106.75) chains to a redwood post, six (6) inches square, marked "U," in mound with pits on west slope; thence west forty-three and fifteen one-hundredths (43.15) chains to a redwood post, six (6) inches square, marked "V," in mound with pits on summit of high ridge; thence north one hundred and six and seventy-five one-hundredths (106.75) chains to a redwood post, six (6) inches square, marked "R," in mound with pits, from which a white oak tree five and one-half ($5\frac{1}{2}$) feet in diameter, bears north forty-seven (47°) degrees west, three and eighty-one one-hundredths (3.81) chains; thence east forty-three and fifteen one-hundredths (43.15) chains to the place of beginning; containing four hundred and sixty and sixty-three one-hundredths (460.63) acres, and being Lot Number Eight (8) on said map, above referred to.

THIRD: Beginning at a mound of stones in channel of south branch of San Antonio Creek, being Station V. S. J. No. 21, upon south boundary line of the Rancho el Valle de San Jose, from which a white oak tree, three (3) feet in diameter, bears south fifty-six (56°) degrees west, one and seventy one-hundredths (1.70) chains; thence south one-fourth ($\frac{1}{4}$) of a degree east, twenty (20.00) chains, to a redwood post, six (6) inches square, marked "T," in mound with pits on an east slope from which a white oak tree, one (1) foot in diameter, bears north, thirty-two and one-half ($32\frac{1}{2}$)

degrees west, sixty-three one-hundredths (0.63) of a chain; thence west fifty-six and ninety-two one-hundredths (56.92) chains to a redwood post, six (6) inches square, marked "W," in mound with pits on a west slope; thence north one hundred and six and seventy-five one-hundredths (106.75) chains to a redwood post, six (6) inches square, marked "Q," in mound with pits, from which a white oak tree, three (3) feet in diameter, bears north sixty-one (61°) degrees west, one and thirty-two one-hundredths (1.32) chains; thence east thirty-six and eighty-five one-hundredths (36.85) chains to a redwood post, six (6) inches square, marked "M," in mound of stones in channel of San Antonio Creek, from which a sycamore tree, two (2) feet in diameter, bears north three (3°) degrees west, sixty-five one-hundredths (0.65) of a chain; thence south sixty-six and seventy-five hundredths (66.75) chains to a redwood post, six (6) inches square, marked "I," in mound of stones on left bank of south branch of San Antonio Creek, from which a sycamore tree, two (2) feet in diameter, bears north one (1°) degree west, one and ninety-eight one-hundredths (1.98) chains; thence south forty-five (45°) degrees east, twenty-eight and twenty-eight one-hundredths (28.28) chains to the place of beginning; containing four hundred and fifty-three and thirty-seven one-hundredths (453.37) acres, and being Lot Number Nine, (9) on said map, above referred to:

EXCEPTING THEREFROM That certain piece or parcel of land conveyed to the Trustees of the La Coste School District of Alameda County by Josefa Sunol by deed dated August 28th, 1884, recorded September 15th, 1884, in Liber 274 of deeds at page 437, in the Recorder's office of Alameda County, described as follows, to-wit:—

Commencing at a point on the line dividing Lots Numbers Three (3) and Nine (9) of the subdivisions of the Sunol portion of the Rancho el Valle de San Jose, south eighty-eight and one-half (88½°) degrees east, ten and ten one-hundredths (10.10) chains distant from stake "Q," set at the northwest corner of Lot Number Nine (9), thence, on line dividing said Lots Three (3) and Nine (9), south eighty-eight and one-half (88½°) degrees east, four and five one-hundredths (4.05) chains, to a stake on top of bluff; thence along bluff north twenty-five (25°) degrees west, one and twenty-seven one-hundredths (1.27) chains; north forty-eight and one-half (48½°) degrees west, two and seventy one-hundredths (2.70) chains; thence leaving bluff north eighty-eight and one-half (88½°) degrees west, two and fifty one hundredths (2.50) chains south eleven (11°) degrees east, fifty-two one-hundredths (0.52) chains; south twenty-four (24°) degrees east, one and fifty one-hundredths (1.50) chains, and south thirteen (13°) degrees east, one and seven one-hundredths (1.07) chains, to the place of beginning; containing one (1) acre, and being a portion of Lot Number Three (3) of said subdivision, as shown upon map of said rancho on file in the office of the Recorder of Alameda County:

XIV.

FIRST: Beginning at a sycamore tree, twenty (20) inches in diameter, marked "V. S. J. No. 22," standing upon the left bank of San Antonio Creek, on the south boundary line of the Rancho el Valle de San Jose, and running thence along said boundary line west eighty (80) chains to a redwood post, six (6) inches square, marked "G," in mound with pits on north slope; thence north sixty (60) chains to a redwood post six (6) inches square, marked "J," in mound with pits on southwest slope, from which a white oak tree, eighteen (18) inches in diameter, bears north nineteen and one-half (19½°) degrees east, one and seventy-five hundredths (1.75) chains; thence east thirty-two (32) chains to a redwood post, six (6) inches square, marked "K," in mound with pits on steep northwest slope; thence north one hundred and fifty-five and sixty-seven hundredths (155.67) chains to a redwood post, six (6) inches square, marked "H," in mound with pits, on the northern line of the Sunol portion of the rancho; thence along said line, south fifty-two and one-half (52½°) degrees east, fifty-four and ninety-four hundredths (54.94) chains to a redwood post, marked "L," in mound with pits; thence along the east line of said Sunol portion of said rancho, south one-fourth (¼) degree east, ninety-nine and eighty-eight hundredths (99.88) chains to a mound of stones in the channel of San Antonio Creek, being station "V. S. J. No. 23" of said rancho, from which a sycamore tree, two (2) feet in diameter, bears north eighty-six and one-fourth (86¼°) degrees west, ninety-two hundredths (0.92) chains; thence south seventy-nine and thirty hundredths (79.30) chains to the place of beginning; containing one thousand one hundred and thirty-six and four hundredths (1,136.04) acres of land and being lot Number Five (5) of the Sunol portion of the Rancho el Valle de San Jose, as said lot is laid down and designated on the map attached to and forming a part of the report of the Commissioners in Partition in the action formally pending in the District Court of the Third Judicial District of the State of California, County of Alameda, entitled Charles Hadsell et al., against Peter O. Minor et al., and on the map referred to in the final decree of partition in said case, which said decree was recorded in the office of the County Recorder of said County of Alameda on December 22nd, 1871, in Liber 75 of Deeds, page 245:

SECOND: Beginning at a mound of stones in the channel of the south branch of the San Antonio Creek, being station "V. S. J. No. 21," upon the south boundary

line of the Rancho el Valle de San Jose, from which a white oak tree, three (3) feet in diameter, bears south fifty-six (56°) degrees west, one and seventy hundredths (1.70) chains, and running thence north forty-five (45°) degrees west, twenty-eight and twenty-eight hundredths (28.28) chains to a redwood post, six (6) inches squares marked "I," in mound of stones on the left bank of said creek, from which a sycamore tree, two (2) feet in diameter, bears north one (1°) degree west, one and ninety-eight hundredths (1.98) chains; thence north one hundred and twenty (120.00) chains to a redwood post, six (6) inches square, marked "N," in mound with pits from which a lone white tree, thirty (30) inches in diameter, bears south thirty-one (31°) degrees west, four and nineteen hundredths (4.19) chains; thence west sixty-nine and fifty-seven hundredths (69.57) chains to a redwood post, six (6) inches square, marked "O," in mound with pits, in line of board fence; thence along said fence, north three-fourths ($\frac{3}{4}$) of a degree east, thirteen and forty-nine hundredths (13.49) chains, to a post marked "A B S" in mound, at an angle in fence and upon northern boundary line of the Sunol portion of said rancho; thence along said line north forty-eight (48°) degrees east, one hundred and thirty-three and sixty hundredths (133.60) chains to a point from which a white oak tree, two (2) feet in diameter, bears north forty-four (44°) degrees west, one and forty-six hundredths (1.46) chains; thence south fifty-two and one-half ($52\frac{1}{2}$) degrees east, fifty-three and ninety-six hundredths (53.96) chains to a redwood post, six (6) inches square, marked "H," in mound with pits, on south slope; thence south one hundred and fifty-five and sixty-seven hundredths (155.67) chains to a redwood post, six (6) inches square, marked "K," in mound with pits on steep northwest slope; thence west thirty-two (32) chains to a redwood post, six (6) inches square, marked "J," in mound with pits, from which a white oak tree, eighteen (18) inches in diameter, bears north nineteen and one-half ($19\frac{1}{2}$) degrees east, one and seventy-five hundredths (1.75) chains; thence south sixty (60) chains, to a redwood post, six (6) inches square, marked "G," in mound with pits on north slope; thence west nineteen and ninety hundredths (19.90) chains to the place of beginning; containing one thousand eight hundred and fifteen and fifty-five hundredths (1,815.55) acres of land and being Lot Number Four (4) of the Sunol portion of the Rancho el Valle de San Jose, as said lot is laid down and designated on the map attached to and forming a part of the report of the Commissioners in Partition in the action formerly pending in the District Court of the Third Judicial District of the State of California, County of Alameda, entitled Charles Hadsell et al., against Peter O. Minor et al., and on the map referred to in the final decree of partition in said case, which said decree was recorded in the office of the County Recorder of said County of Alameda on December 22nd, 1871, in Liber 75 of Deeds, page 245:

Excepting and reserving from the said Lots Numbers Four (4) and Five (5), above-described all those certain lands conveyed by David W. Coons and Jennie S. Coons, his wife, and Lafayette Rhorer and Eliza Rhorer, his wife, to Daniel Sullivan, by deed dated December 14th, 1898, and recorded in the office of the County Recorder of the County of Alameda, State aforesaid, in Liber 672 of Deeds, page 339, which said lands so conveyed to said Sullivan are situated in said County of Alameda and are described as follows, to-wit:—

Being portion of said Lots Numbers Four (4) and Five (5), as designated on map of portions of the Rancho el Valle de San Jose, in said County of Alameda, made by order of the Third District Court by F. Hinchcliffe, Surveyor, July, 1871, and particularly bounded and described as follows, viz:

Beginning at a redwood post, six (6) inches by six (6) inches, marked "N," in mound with pits, from which a lone white tree, thirty (30) inches in diameter, bears south thirty-one (31°) degrees west, four and nineteen hundredths (4.19) chains; thence west sixty-eight and ninety-six hundredths (68.96) chains, to a redwood post, six (6) inches by six (6) inches, marked "O," in mound with pits in line of board fence; thence along said fence north three-fourths ($\frac{3}{4}$) degrees west, eighteen and forty-four hundredths (18.44) chains to a post, marked "B. S." in mound at an angle in fence and upon northern boundary line of the Sunol portion of the Rancho el Valle de San Jose; thence, along said line north, forty-seven and three-fourths ($47\frac{3}{4}$) degrees east, one hundred and thirty-two and ninety-one hundredths (132.91) chains to a point from which a white oak tree, two (2) feet in diameter, bears north forty-four (44°) degrees west, one and forty-six hundredths (1.46) chains; thence south fifty-two and three-fourths ($52\frac{3}{4}$) degrees east, one and forty-six hundredths (1.46) chains, to a four (4) inch by four (4) inch redwood post set in the line of the fence; thence south fifty and one-fourth ($50\frac{1}{4}$) degrees west, twenty-seven and eighty-one hundredths (27.81) chains to a four (4) inch by four (4) inch redwood post set on the bank of a ravine near a large oak tree; thence down the ravine south eighty-eight and one-half ($88\frac{1}{2}$) degrees west, thirty-one chains (31), to a four (4) inch by four (4) inch redwood post; thence down the ravine, south forty-one (41°) degrees west, twenty-seven and twenty-two hundredths (27.22) chains to a four (4) inch by four (4) inch redwood post; thence, leaving the ravine, south seventy-eight and one-half ($78\frac{1}{2}$) degrees west, thirty-nine and thirty-six hundredths (39.36) chains, to the six (6) inch by six (6) inch post at the place of beginning; containing one thousand and twenty and fifteen hundredths (1,020.15) acres of land, more or less:

XV.

Lots Numbers Three (3), Four (4), Five (5) and Six (6), and the east one-half (E. $\frac{1}{2}$) of the southeast one-quarter (S. E. $\frac{1}{4}$) of Section Twenty (20); also

Lots Numbers One (1) and Two (2); the northeast one-quarter (N. E. $\frac{1}{4}$), and the north one-half (N. $\frac{1}{2}$) of the southeast one-quarter (S. E. $\frac{1}{4}$) of Section Thirty (30);

Containing five hundred and forty-three and fifty-five hundredths (543.55) acres; all in Township Four (4) South, Range Two (2) East, Mount Diablo Base and Meridian.

XVI.

Lots Numbers One (1), Two (2) and Three (3) of Section Nineteen (19); also,

All of Section Twenty-one (21); also

All of Section Twenty-three (23);

All in Township Four (4) South, Range Two (2) East, Mount Diablo Base and Meridian, and containing one thousand three hundred and eighty-seven and eighty-five hundredths (1,387.85) acres.

XVII.

FIRST: Lots Numbers One (1), Two (2), Three (3) and Four (4) in Section Sixteen (16) being the fractional South half (S. $\frac{1}{2}$) of said Section Sixteen (16), in Township Four (4), South, Range Two (2) East, Mt. Diablo Base and Meridian, containing one hundred and forty-three and fifty-eight hundredths (143.58) acres;

SECOND: Lot One (1) and Two (2), in Section Seventeen (17), in said Township and Range, containing sixty-eight and eighty-seven hundredths (68.87) acres;

THIRD: Lots One (1) and Two (2) and the east half of the northeast quarter of Section Twenty (20), in said Township and Range, containing one hundred and fifty-two and twenty hundredths (152.20) acres;

FOURTH: The north half (N. $\frac{1}{2}$) and the southeast quarter (S. E. $\frac{1}{4}$) of Section Twenty-two (22), in said Township and Range, containing four hundred and eighty (480) acres;

FIFTH: And the said party of the first part does hereby remise, release and quit claim unto the said party of the second part, its successors and assigns forever, all its rights title and interest in and to the southwest quarter (S. W. $\frac{1}{4}$) of Section Twenty-two (22), in said Township Four (4) South, Range Two (2) East, Mt. Diablo Base and Meridian, containing one hundred and sixty (160) acres:

XVIII.

Commencing at a point on the line dividing the Bernal from the Sunol portion of the Rancho el Valle de San Jose south seventy-four and one-half ($74\frac{1}{2}^{\circ}$) degrees east, nineteen and fifty-one hundredths (19.51) chains distant from station V. S. J. 8 of the exterior boundary of said rancho; running thence south seventy-four and one-half ($74\frac{1}{2}^{\circ}$) degrees east, fourteen and sixteen hundredths (14.16) chains, to the west line of the one-hundredth foot right of way of the Western Pacific Railroad Company; thence along said right of way south one and one-fourth ($1\frac{1}{4}^{\circ}$) degrees west, nineteen and fifty-seven hundredths (19.57) chains, to B. U. Campion's land; thence north eighty-nine (89°) degrees west, nine and forty-five hundredths (9.45) chains; north twelve (12°) degrees east, one and fifty hundredths (1.50) chains; north seventy-seven and one-fourth ($77\frac{1}{4}^{\circ}$) degrees east, two and fifty-six hundredths (2.56) chains; thence north thirty-two and three-fourths ($32\frac{3}{4}^{\circ}$) degrees east, one and thirty hundredths (1.30) chains; north twenty-six (26°) degrees west, three (3) chains; north fifty-four and one-half ($54\frac{1}{2}^{\circ}$) degrees west, four and ninety hundredths (4.90) chains, to a point from which a white oak tree, about three (3) feet in diameter, bears north fifty-four and three-fourths ($54\frac{3}{4}^{\circ}$) degrees west, twenty-five (25) links distant; thence south eighty-eight (88°) degrees east, three and twenty-four hundredths (3.24) chains; north fifty seven and one-half ($57\frac{1}{2}^{\circ}$) degrees east, one and twenty-five hundredths (1.25) chains; thence north thirteen and one-fourth ($13\frac{1}{4}^{\circ}$) degrees west, two and ninety hundredths (2.90) chains; north fifty-six (56°) degrees west, four and sixty hundredths (4.60) chains; north thirty-seven and one-half ($37\frac{1}{2}^{\circ}$) degrees east, two and thirty-seven hundredths (2.37) chains north; thirty-nine and three-fourths ($39\frac{3}{4}^{\circ}$) degrees west, two and sixty-three hundredths (2.63) chains; north thirty-six (36°) degrees west, three and fifty-nine hundredths (3.59) chains; north fifteen and one-half ($15\frac{1}{2}^{\circ}$) degrees east, two and six hundredths (2.06) chains, to the place of commencement; containing twenty and thirty-two hundredths (20.32) acres.

XIX.

1. Beginning at a point on the line of division between Plots Nos. Forty-six (46) and Forty-nine (49) of the Rancho el Valle de San Jose, said point being nine

(9) chains and fifty (50) links south of the northwest corner of Plot No. Forty-nine (49); thence south thirty-seven (37) chains, twenty-five (25) links to a sycamore tree, three and one-half (3½) feet in diameter, on the easterly bank of the Arroyo de la Laguna (as said bank existed on the 21st day of February, 1879, and before); thence along said bank (as the same so existed February 21st, 1879, and before), north forty-three and one-half (43½) degrees west, three (3) chains; thence north twenty-four and three-fourths (24¾) degrees west, three (3) chains; thence north fourteen and three-fourths (14¾) degrees west, two (2) chains, fifty-six (56) links, to a sycamore tree, twenty (20) links in circumference; thence north nineteen (19) degrees west, four (4) chains; thence north twenty-four (24) degrees west, two (2) chains; thence north twenty-six (26) degrees west, four (4) chains; thence north thirty-three and one-half (33½) degrees west, two (2) chains, fifty (50) links; thence north eight and one-half (8½) degrees east, two (2) chains; thence north thirty-four and one-fourth (34¼) degrees east, one (1) chain; thence north eight and one-fourth (8¼) degrees west, four (4) chains, fifty (50) links; thence north forty-six and one-half (46½) degrees west, one (1) chain, seventy-five (75) links; thence north twenty-two and one-fourth (22¼) degrees west, eighty-three (83) links; thence north thirty-five and one-fourth (35¼) degrees west, one (1) chain, fifty (50) links; thence north thirteen and three-fourths (13¾) degrees east, seventy-five (75) links; thence north thirty-seven and three-fourths (37¾) degrees west, fifty (50) links; thence south eighty-three and one-half (83½) degrees west, one (1) chain, twenty-five (25) links; thence north twenty-eight and three fourths (28¾) degrees west, one (1) chain, fifty (50) links; thence north four (4) degrees west, one (1) chain; thence north thirteen and one-half (13½) degrees west, two (2) chains; thence north forty-nine (49) degrees west, one (1) chain, fifty (50) links; thence north twelve (12) degrees west, seventy-five (75) links; thence north thirty-eight and one-fourth (38¼) degrees west, one (1) chain, forty-three (43) links; thence leaving said bank (so described) of said creek, and running east sixteen (16) chains, twenty-five (25) links, to the place of beginning; containing thirty (30) acres of land, and being the southerly point of that part of Plot No. Forty-six (46) of the Rancho el Valle de San Jose, lying on the easterly side of the said Arroyo de la Laguna (as the same existed February 21st, 1879, and before), according to the map accompanying the report of the referees in the partition suit of said Rancho el Valle de San Jose.

ALSO the right of way or private road leading from the most northerly line of the land above described to the road conveyed to Antonio Rosas by Antonio H. Bernal, a width of fourteen (14) feet; being the same right of way described in and subject to the conditions mentioned in the deed of the property above described as to said right of way from Antonio Rosas to Frank Silva, dated February 21st, 1879, and recorded in the office of the County Recorder of the County of Alameda, State of California, and all the said properties above described being the same properties described in the said last named deed:

2. Beginning on the line dividing Plots Nos. Forty-six (46) and Forty-nine (49) of the Rancho el Valle de San Jose, south forty-seven (47) chains, eighteen (18) links, distant from the northwest corner of said Plot No. Forty-nine (49), said beginning point being in the center of the Arroyo de la Laguna (as the same existed August 16th, 1881, and before); thence south eighteen (18) chains, forty-two (42) links, on line dividing Plots Nos. Forty-six (46) and Forty-nine (49) to a stake; thence S. seventy-three degrees thirty minutes (73° 30') E. ten (10) chains, fifteen (15) links; thence north fifty-four (54) degrees east, eight (8) chains, sixty-four (64) links to an alder tree nine (9) inches in diameter; standing on the banks of the arroyo (as the same existed on said last named date and before) twenty (20) chains, sixty (60) links, to the center of said creek (as the same existed on said last named date and before); thence up and along the center of said arroyo, (as the same existed on said last named date and before) to the place of beginning; containing eighteen and six hundredths (18.06) acres of land, and being part of Plot No. Forty-nine (49) of Rancho el Valle de San Jose, as laid down on the map accompanying the report of the referees in the partition suit of said rancho, and being the same land conveyed by Juana H. Nevis and Jose Reyes Bernal to Frank Silva by deed dated August 16th, 1881, and recorded in said Recorder's office.

3. Beginning at the southwest corner of Plot No. Forty-seven (47) of the Rancho el Valle de San Jose; thence south on line between Plots Nos. Forty-six (46) and Forty-nine (49), forty-six (46) chains, forty one (41) links, to a sycamore tree on the banks of the arroyo de la Laguna (as the same existed April 11th, 1883, and before), forty-six (46) chains, seventy-two (72) links, to the center of said arroyo (as the same existed on said last named date and before); thence down the center of said arroyo (as the same existed on said last named date and before), south forty-four and one-half (44½) degrees east, one (1) chain, twenty (20) links; thence north fifty-three and one-half (53½) degrees east, ninety-four (94) links; thence north forty-four and one-half (44½) degrees west, one (1) chain, eighty-seven (87) links; thence north forty-five (45) chains, seventy-one (71) links, to the south line of Plot No. Forty-seven (47); thence west thirty (30) links to the place of beginning; containing one and fifty-three hundredths (1.53) acres, and being a portion of Plot No. Forty-nine (49) of said Rancho, as laid

down on the map accompanying the report of the referees in the partition suit in said rancho, and subject to the conditions named in that certain deed executed by Jose Reyes Bernal and Juana H. Nevis, as parties of the first part, to Frank Silva, as party of the second part, dated April 11th, 1883, and recorded in the said Recorder's office, and being the same land described in the deed last aforesaid.

4. Beginning at a point on the easterly line of a twenty (20) foot right of way, or tract of land, heretofore conveyed by Juana H. Nevis and Jose Reyes Bernal to Frank Silva by deed dated April 11th, 1883, and recorded in Liber 252, of Deeds, at page 104, Records of Alameda County, and from which point of beginning the north-west corner of Plot No. Forty-nine (49) of the Bernal portion of the Rancho el Valle de San Jose bears north twenty-three (23') minutes west, forty-three (43) chains forty-eight (48) links distant; thence along the westerly edge of a ditch, south twenty-seven (27°) degrees east, seven chains (7), ninety (90) links, to the center of the Arroyo de la Laguna (as the same existed September 27th, 1883, and before), thence in said creek (as the same existed at said last named date and before), north forty-four and one-half (44½°) degrees west, four (4) chains, twenty-five (25) links, to the tract of land above referred to; and thence along the line of the said last-named tract of land, north fifty-three and one-half (53½°) degrees east, ninety-four (94) links; thence north forty-four and one-half (44½°) degrees west, one (1) chain, eighty-seven (87) links; and north two (2) chains, twenty-three (23) links, to the place of beginning; containing fifty-two (52-100) hundredths of an acre, and being part of Plot No. Forty-nine (49) of the Rancho el Valle de San Jose, and being the same land described in that certain deed made by Jose Reyes Bernal to Frank Silva, dated September 27th, 1883, and recorded in said Recorder's office:

5. All the right, title and interest, property, possession, claim and demand of the party of the first part in and to all and any portion of portions of Plots Nos. Forty-nine (49) and Forty-six (46) of the said Rancho el Valle de San Jose, as laid down on the map accompanying the report of the referees in the partition suit of said rancho (being in the Bernal portion of said rancho.)

XX.

Beginning at a point from which the southwest corner of Plot No. 48 of the Rancho el Valle de San Jose, as said plot is delineated, on the map accompanying the report of the referee on the partition of said rancho, bears south thirty-one and ninety-nine one-hundredths (31.99) chains, and a stake marked 22 bears south (13.5) feet; thence north forty-five (45°) degrees west, three hundred and five and eight-tenths (305.8) feet; thence north forty-one degrees forty-five minutes (41°.45') east, three hundred and twenty-four and eight-tenths (324.8) feet; thence south four hundred and fifty-eight and five tenths (458.5) feet to the place of beginning; containing 1.138 acres of land.

XXI.

Beginning at a point on the line dividing Plots Nos. Forty-seven and Forty-nine of the subdivision of the Bernal portion of the Rancho el Valle de San Jose, east twenty (20) feet distant from the northwest corner of said Plot No. 49, and running thence parallel with the line dividing Plots Nos. 46 and 49 of said rancho, and distant twenty (20) feet therefrom, south forty-three (43) chains, forty-eight (48) links; thence south twenty-seven (27°) degrees east, seven (7) chains, ninety (90) links, to the center of the Arroyo Laguna; thence southerly along the center of the Arroyo Laguna, seven (7) chains more or less, to the northwest corner of the lands heretofore conveyed by Juana H. Nevis to J. C. McLaughlin, by deed dated November 13th, 1880, and recorded in Liber 211 of Deeds, at page 257, Records of Alameda County; thence following the northwesterly boundary line of the land so conveyed to J. C. McLaughlin, north ten and one-fourth (10¼°) degrees west, three (3) chains, twenty-six (26) links; thence north, forty-four and one-half (44½°) degrees east, one (1) chain, seventy-four (74) links; north seventy-one and three-fourths (71¾°) degrees east, two (2) chains, sixty three (63) links; north thirty and one-fourth (30¼°) degrees east, two (2) chains, thirteen (13) links; north sixteen (16°) degrees east, four chains (4), seventy-two (72) links; north twenty-seven and one-fourth (27¼°) degrees east, four (4) chains, twenty-six (26) links; north thirty-nine and one-half (39½°) degrees east, thirteen (13) chains, seventy-five (75) links, to the northeast corner of said lands conveyed to J. C. McLaughlin, and on the line dividing Plots Nos. 48 and 49 of said rancho; thence along said Plot line north twenty-nine (29) chains, twenty-five (25) links, to the northeast corner of Plot No. 49, on the south line of Plot No. 47; thence along said line dividing Plots Nos. 47 and 49, west twenty-four (24) chains; sixty-three links (63), to the place of beginning; containing one hundred and eight and forty-eight hundredths (108.48) acres, more or less, being a portion of the aforesaid Plot No. 49 of the Bernal portion of the Rancho el Valle de San Jose:

XXII.

Beginning at a stake and mound on the northwest corner of Plot No. 48 of the Bernal Portion of the Rancho el Valle de San Jose, said point being also the northeast corner of Plot No. 49 of said portion of said rancho, and running thence along the plot line dividing Plots 49 and 48 of said rancho, south, forty-one (41) chains, five (5) links; thence north eighty-nine (89°) degrees twenty (20') minutes east, twelve (12) chains, fifty-seven (57) links, to the westerly line of the one hundred (100) foot right of way of the Central Pacific Railroad; thence along said line of said right of way, north six (6°) degrees, fourteen (14') minutes east, three (3) chains, sixty-eight (68) links; north seventeen (17°) degrees, thirty-seven (37') minutes east, four (4) chains, sixteen (16) links; north twenty-nine (29°) degrees, thirty-seven (37') minutes east, four (4) chains, ten (10) links; north thirty-three (33°) degrees, seven (7') minutes east, thirty-five (35) chains, eighty-seven (87) links, to the line dividing Plots Nos. 43 and 48 of said rancho; and thence along said plot line south eighty-nine (89°) degrees, thirty-three (33') minutes west, thirty-six (36) chains, four (4) links, to the place of beginning; containing ninety-three and sixty-four hundredths (93.64) acres, more or less, being portion of said Plot No. 48 of the Bernal portion of the Rancho el Valle de San Jose.

XXIII.

Commencing at a stake and mound at the northeast corner of Plot No. Forty-seven (47), as the same is delineated and so designated on the map accompanying the Report of Referees in the partition of the Rancho el Valle de San Jose; running thence east forty-three (43) chains, more or less, to a stake; thence in a southwesterly direction, along the westerly boundary of the Augustin Bernal home place and the Concepcion Soto ninety-seven and one hundred and seventy-five thousandths (97.175) acre tract, six hundred (600) feet, more or less, to the southeast corner of the said last named tract; thence along the southerly boundary fence of the said Soto tract south sixty-five (65°) degrees, forty (40') minutes, east, four (4) chains, forty-five (45) links, to the middle of the County Road running from Sunol to Pleasanton, said point being also Station No. Three (3) of the external boundary of Plot No. 43 of the Rancho el Valle de San Jose; thence along the center line of said County Road, south thirty-four (34°) degrees, twenty (20') minutes west, one (1) chain, eighty-five (85) links to the westerly line of the Central Pacific Railroad right of way; thence southwesterly, along said right of way, to its intersection with the southerly line of Plot No. 48; thence west along said line of said Plot No. 43, twenty-one (21) chains, ninety-two (92) links, to the southeast corner of Plot No. 47; and thence north, along said east line of said Plot No. 47, thirty-nine (39) chains, eighty-two (82) links, to the point of commencement, containing one hundred and thirty-seven and fifty hundredths (137.50) acres, more or less.

XXIV.

Beginning at a stake and mound at the northwest corner of Plot Number Forty-three (43); running thence south thirty-nine (39) chains, eighty-two (82) links to stake and mound at the southwest corner of Plot Number Forty-Three (43); thence west forty (40) chains to stake and mound at the northwest corner of Plot Number Forty-nine (49); thence north thirty-nine (39) chains, eighty-two (82) links, to stake and mound at the corner of Plot Number Forty-four (44); and thence east forty (40) chains to the point of beginning; containing one hundred and fifty-nine and twenty-eight hundredths (159.28) acres, and being Plot Number Forty-seven (47) as designated upon the map accompanying the report of the referees in partition in the action of Augustin Bernal and Juana Higuera Bernal, his wife, vs. Juan Pablo Bernal, Maria Antonio Bernal and others, in the District Court of the Third Judicial District, in the State of California, in and for the County of Alameda; also all ditches, canals, rights of way and other rights granted by Jose Reyes Bernal to Maria Angeline Bernal-Schweer (sometimes called "Angeline Bernal-Schweer") and Antone Francis Schweer, her husband, and described or referred to in that certain agreement made by and between Jose Reyes Bernal and Mrs. Maria Angeline Bernal-Schweer and Antone Francis Schweer, dated November 20th, 1890, and recorded in the office of the County Recorder of the County of Alameda, State of California, in Liber 420 of Deeds, page 205:

XXV.

Beginning at a point in the southerly boundary line of Plot Number Forty-four (44) of the subdivisions of the Bernal portion of the Rancho el Valle de San Jose, in the center of County Road Number Two Thousand (2,000), distant on said boundary line and said line of said road south eighty-nine and one-half (89½°) degrees east' ninety-nine and two tenths (99.2) feet from the northwest corner of Plot Number Forty-three (43) of said Bernal portion of said rancho—at which point of beginning an iron pipe is sunk in the ground—(said point of beginning being also the southwest corner of a tract of land now or formerly known as the "Kate C. Salisbury Tract") and running thence along said boundary line and the center of said County line south

eighty-nine and one-half ($89\frac{1}{2}$) degrees, west, one thousand four hundred and seventy, eight and one half ($1,478\frac{1}{2}$) feet to an iron pipe sunk in the ground and to the point where the center line of the private lane, next hereinafter mentioned would intersect the said center line of said County Road, if extended southerly or southeasterly; thence north eighteen (18°) degrees, fourteen ($14'$) minutes west, along the extension of said center line of said private lane (southerly from the north line of said County Road) and along the center line of said private lane (sixteen ($16'$) feet in width) running southerly or southeasterly from the southerly corner of the "Charles Eggers Tract," hereinafter mentioned, to said County Road No. 2,000 one thousand three hundred and ninety-nine and three-tenths ($1,399.3$) feet to the south corner of the tract of land conveyed by Joseph Nevis and Juana H. Nevis, his wife, to Charles Eggers, by deed dated June 11th, 1887, and recorded in the office of the County Recorder of the County of Alameda in Liber 325 of Deeds, at page 172; thence north forty-two (42°) degrees, twenty-five ($25'$) minutes east, along the southeasterly fence of said Charles Eggers' Tract, and along the northwesterly line of a private lane, sixteen ($16'$) feet wide, nine hundred and sixty-three and nine-tenths (963.9) feet to the south corner of a tract of land conveyed by Juana H. Nevis to Michael C. Fitzgerald by deed dated August 15th, 1889, and recorded in said Recorder's office in Liber 380 of Deeds, at page 25; thence north forty-three (43°) degrees, forty-six ($46'$) minutes east, along the southeasterly fence of said Fitzgerald Tract, and northwesterly line of said last named private lane, eight hundred and twenty-two and one-half ($822\frac{1}{2}$) feet to the northerly boundary line of Plot No. Forty-four (44) of said Bernal portion of said rancho, where an iron pipe is sunk in the ground; thence along said last named northerly boundary line east six hundred and ninety-seven and eight-tenths (697.8) feet to an iron pipe sunk in the ground in the center line of Rose Avenue, and being the northwesterly corner of the Kate C. Salisbury Tract; thence south, along the west fence of the said Kate C. Salisbury Tract, two thousand six hundred and thirty-five and eight-tenths ($2,635.8$) feet to an iron pipe sunk in the ground in the center of said County Road No. 2,000 and point of beginning—all courses true; the said tract of land being a part of said Plot No. Forty-four (44) and being subject to that certain easement or right of way described in said deed to said Fitzgerald, and being also to that certain easement or right of way described in that certain grant of easement dated July 25th, 1889, and made by Juana Higuera Nevis to E. R. Lilienthal, and recorded in said Recorder's office in Liber 384 of Deeds, at page 160; and also subject to the right of way for road purposes of the northerly half of said County Road No. 2,000; and also subject to that certain easement or right of way described in said deed to said Charles Eggers; containing ninety-one and twenty hundredths (91.20) acres:

XXVI.

Beginning at a redwood post, standing on the line dividing Plots Numbers Forty-four (44) and Forty-five (45) of the subdivisions of the Bernal portion of the Rancho el Valle de San Jose, said beginning point being east fifteen and ninety-five one-hundredths (15.95) chains distant from the northeast corner of the lands of Antonio H. Bernal; thence, on line dividing aforesaid plots, east eight and ninety-four one-hundredths (8.94) chains; thence south forty-three (43°) degrees, fifty ($50'$) minutes west-twelve and thirty-six one hundredths (12.36) chains; thence north two and one-fourth ($2\frac{1}{4}$) degrees west, eight and ninety-four one-hundredths (8.94) chains to the place of beginning; containing four (4) acres, and being a portion of said Plot Number Forty-four (44) as laid down on the map accompanying the report of the referees in the partition of the said Rancho el Valle de San Jose; also the use of the right of way and private road leading from the northeast corner of said land to the westerly end of Rose Avenue:

XXVII.

Beginning at a point on a line dividing Plots Numbers Forty-four (44) and Forty-five (45) of the Bernal portion of the Rancho el Valle de San Jose and at the north-west corner of the lands known as the M. C. Fitzgerald Tract; thence along the line dividing said Plots Numbers Forty-four (44) and Forty-five (45) west, twelve (12) chains and one (1) link to lands conveyed to Jason A. Rose; thence south sixty-seven and one-half ($67\frac{1}{2}$) degrees west, three (3) chains, seventy-six (76) links to lands of Antonio H. Bernal; thence along said Bernal's line, south eighteen (18°) degrees east, nineteen (19) chains and twenty-one (21) links; thence north forty-two and one-half ($42\frac{1}{2}$) degrees east, fourteen (14) chains and sixty (60) links, to the most southern corner of said M. C. Fitzgerald's land; thence north two and three-fourths ($2\frac{3}{4}$) degrees west, eight (8) chains, ninety-four (94) links, to the place of beginning; containing twenty (20) acres, and being a portion of Plot Number Forty-four (44) of the Bernal portion of the said Rancho el Valle de San Jose:

XXVIII.

Beginning at a point in the center of County Road Number Two Thousand (2,000) from which an oak stump at the most eastern corner of the tract of land, heretofore conveyed by Juana N. Bernal to Antonio Bernal, by deed dated March 16th, 1875,

and recorded in the office of the County Recorder of the County of Alameda, State of California, in Liber 105 of Deeds, page 413, bears east forty-six (46) links distant, and running thence along the center line of said County Road Number Two Thousand, (2,000) west eighteen (18) chains, sixty-three (63) links; thence still along said center line of said road south sixty-four (64°) degrees six (6') minutes west, eleven (11) chains one (1) link; thence leaving said County Road and running north eighteen (18°) degrees west, along the line of lands formerly belonging to Antonio H. Bernal, sixteen (16) chains, thirteen (13) links; thence north sixty-seven (67°) degrees east, along the line of lands formerly belonging to Antonio H. Bernal, twenty-eight (28) chains, seventy-five (75) links; and thence south eighteen (18°) degrees east, along the line of lands formerly belonging to Antonio H. Bernal, twenty-two (22) chains, eighty-eight (88) links, to the place of beginning; containing fifty-one and thirty-five hundredths (51.35) acres of land, more or less, and being a portion of Plot Number Forty-four of the Bernal portion of the Rancho el Valle de San Jose:

XXIX.

Beginning at an oak tree stump, in the center of the County Road Number Two Thousand (2,000), and at the most eastern corner of a tract of land heretofore conveyed by J. H. Bernal to Antonio Bernal, by deed dated March 16th, 1875, and recorded in Liber 105 of Deeds, at page 413, Alameda County Records; running thence along the center of said County Road, west forty-six (46) links; thence north eighteen (18°) degrees west, twenty-two and eighty-eight one-hundredths (22.88) chains; thence south sixty-seven (67°) degrees west, twenty-eight and seventy-five one-hundredths (28.75) chains; thence south eighteen (18°) degrees east, sixteen and sixty-seven one hundredths (16.67) chains, to the center of the County Road; thence south sixty-four (64°) degrees six (6') minutes west, along the center of said County Road, one (1) chain; thence north eighteen (18°) degrees west, thirty-three and ninety-six one-hundredths (33.96) chains; thence north sixty-seven (67°) degrees east, thirty and twenty one-hundredths (30.20) chains, and thence south eighteen (18°) degrees east, forty and thirty-five one-hundredths (40.35) chains, to the point of beginning; containing fifty-four and sixty-nine one-hundredths (54.69) acres:

XXX.

Beginning at the northwest corner of Plot Number Forty-seven (47) of the Rancho el Valle de San Jose, said beginning point being in the center line of County Road Survey Number Two Thousand (2,000); thence along the center line of said road, south sixty-three (63°) degrees, twenty-four (24') minutes west, twelve and seventy-eight one-hundredths (12.78) chains; thence south twenty-three (23') minutes east, twenty-six and seventy-one one-hundredths (26.71) chains; thence north fifty and one-half (50½°) degrees east, fourteen and thirty-seven one-hundredths (14.37) chains to line between Plots Forty-seven (47) and Forty-six (46) of said rancho; thence north twenty-three (23') minutes west, twenty-two and eighty-nine one-hundredths (22.89) chains to place of beginning; containing twenty-eight and thirty-seven (28.37) acres, and being a portion of Plots Numbers Forty-four (44) and Forty-six (46) of the said Rancho el Valle de San Jose, as laid down on the map accompanying the Report of the Referees in the partition of the said rancho:

Subject, however, to a certain right of way for said County Road Survey Number Two Thousand (2,000) along the entire northerly line thereof:

XXXI.

Beginning at a point in the center line of County Road Survey Number Two Thousand (2,000), said point being south sixty-three (63°) degrees, twenty-four (24') minutes west, twelve and seventy-eight hundredths (12.78) chains from the northwest corner of Plot Forty-seven (47) of the Rancho el Valle de San Jose; thence, along said center line of said County Road, south sixty-three (63°) degrees twenty-four (24') minutes west, twenty-three and twenty-five hundredths (23.25) chains; thence south fifty-eight (58°) degrees ten (10') minutes west, thirty-two (32) links to the center line of Laguna Creek and northeasterly corner of lands of Anthony Chabot; thence following said Chabot's easterly line southerly, down the center line of said creek about thirty-one and forty-five hundredths (31.45) chains to the northerly line of Antonio Rosas' land; thence, along said Rosas' northerly line, north sixty (60°) degrees thirty (30') minutes east, forty (40) links; north thirty-three (33°) degrees, forty-five (45') minutes east, eighty-four (84) links; north seventy-two (72°) degrees east, one and seventy-eight hundredths (1.78) chains; north forty-seven (47°) degrees, thirty (30') minutes east, two (2) chains; north fifty-eight (58°) degrees east, three and fifty-seven hundredths (3.57) chains, from which a sycamore tree, mentioned in the deed from Antonio Bernal to Antonio Rosas bears north fifty-eight (58°) degrees east, fifty-one hundredths (.51) chains; thence north twenty-three (23') minutes west, thirty and one-hundredths (30.01) chains to the place of beginning; containing forty-three

and ninety-two hundredths (43.92) acres; the same being portion of Plots numbers Forty-four (44) and Forty-six (46) of the Rancho el Valle de San Jose, as the same is laid down on the map accompanying the report of the referees in the partition of said rancho,—the land herein conveyed being the same that was conveyed by Antonio H. Bernal to Martin Donahue, by deed dated September 15th, 1883, and recorded in the office of the County Recorder of Alameda County aforesaid, in Liber Two Hundred and Fifty-seven (257) of Deeds, at page four hundred and fifty-five (455) on October 1st, 1883:

XXXII.

Beginning at a point on the division line between Plots Numbers Forty-six (46) and Forty-seven (47) of the Rancho el Valle de San Jose, where the same is intersected by the most northern corner of the land formerly belonging to one Davila (and prior to Davila's ownership belonging to Antonio Rosas); running thence, along the north-western boundary line of said land of Davila, south fifty and one-half ($50\frac{1}{2}^{\circ}$) degrees west, fourteen and twenty-seven hundredths (14.27) chains; thence south fifty-eight (58°) degrees west, fifty-one (51) links; thence north twenty-three (23') minutes west, three (3) chains, thirty (30) links; thence north fifty and one-half ($50\frac{1}{2}^{\circ}$) degrees east, fourteen (14) chains, eighty-seven (87) links; to said dividing line between Plots Forty-six (46) and Forty seven (47); and thence south twenty-three (23') minutes east, three (3) chains, forty-six (46) links, to the point of commencement; containing four (4) acres of land and being a portion of said Plot No. Forty-six (46) of the Rancho el Valle de San Jose, as delineated on the map accompanying the report of the referees in the partition suit of said rancho;

Said above described tract is the same tract conveyed to G. Howard Thompson by Jose Cuatano Serpas and Anna Silva Serpas, his wife, by deed dated August 9th 1900, and recorded in the office of the County Recorder of the County of Alameda in Volume 743 of Deeds, at page 398:

XXXIII.

Commencing at a point on the line dividing Plots Forty-six (46) and Forty-seven (47) of the Rancho el Valle de San Jose, according to the the map accompanying the report of the referees in the action brought to partition said rancho, distant on said line six (6) chains, thirty three (33) links, north of the southwest corner of said Plot No. Forty-seven (47), being the most northerly corner of said tract of ten and twelve hundredths (10.12) acres conveyed to Joseph F. Freitas by Manoel Ferreira Davila by deed dated October 19th, 1889, and recorded in the office of the County Recorder of the said County of Alameda in Liber 384 of Deeds at page 94; running thence north, along the dividing line between Plots Nos. Forty-six (46) and Forty-seven (47) of said rancho, seven (7) chains, seventeen (17) links, more or less, to the most northern corner of the twenty-one (21) acre tract conveyed to Manoel Ferreira Davila by Manuel Francisco and Adeline Francisco, his wife, by deed dated October 19th, 1889, and recorded in the office of the County Recorder of said Alameda County in Liber 384 of Deeds at page 96; running thence south, along the southern boundary line of lands of Nevis and Serpas, south fifty (50°) degrees thirty (30') minutes west, fourteen (14) chains and twenty-seven (27) links; thence along the southerly boundary line of the lands of Serpas and lands formerly belonging to one Kenneally, south fifty-eight (58°) degrees west, four (4) chains and eight (8) links; thence, still along the southerly boundary line of said Kenneally tract, south forty-seven (47°) degrees thirty (30') minutes west, two (2) chains; thence south seventy-two (72°) degrees west, to the center of Laguna Creek or Arroyo de la Laguna and to the easterly boundary line of lands of the Contra Costa Water Company; thence along the center line of said creek or arroyo and along the easterly boundary line of the Contra Costa Water Company tract aforesaid in a general southwesterly and southerly course to a point where said center line is intersected by a line drawn south fifty-eight (58°) degrees west, from point of commencement, thence north fifty-eight (58°) east to the point of commencement, containing ten and eighty-eight (10.88) hundredths acres and being a portion of said Plot Forty-six (46);

Being the same tract conveyed to G. Howard Thompson by Manoel Ferreira Davila and Annie G. Davila, his wife, by deed dated August 7th, 1900, and recorded in the office of the County Recorder of the County of Alameda in Volume 743 of Deeds, page 400:

XXXIV.

1. Commencing at a point on the line dividing Plots Nos. Forty-six (46) and Forty-seven (47) of the Bernal portion of the Rancho el Valle de San Jose, distant thereon seven (7) chains and seventeen (17) links south from the northeastern corner of the tract of land described in the deed from A. H. Bernal to A. Rosas, dated February 21st, 1879, and recorded in the office of the County Recorder of the County of Alameda, State of California, in Liber 177 of Deeds, at page 29 (to which reference is hereby made for further description), and running thence south, along the line dividing the aforesaid Plots Nos. Forty-six (46) and Forty-seven (47), seven (7) chains,

seven links, to the northeastern corner of the parcel of land described in the deed made by F. Silva to M. I. de Freitas, dated November 1st, 1880, and recorded in said Recorder's office in Liber 212 of Deeds, at page one (to which said record reference is hereby made); thence south sixty four (64°) degrees thirty-seven (37') minutes west, along the northern line of the last-named tract to the center of Laguna Creek and the easterly boundary line of the lands of one Chadbourne; thence in a general northwesterly and northerly direction, along the center of Laguna Creek and the easterly boundary line of the lands of J. Chadbourne and the Contra Costa Water Company, to the intersection of the center line of said Laguna Creek with a line drawn from the point of commencement on a course south fifty-eight (58°) degrees west, and thence from said point of intersection north fifty-eight (58°) degrees east to the point of commencement; containing ten and twelve hundredths (10.12) acres of land:

2. Commencing at a point on the line dividing Plot Nos. Forty-six (46) and Forty-nine (49) of the Bernal Portion of the Rancho el Valle de San Jose, distant thereon sixty-five (65) links south from the northwest corner of Plot No. Forty-nine (49), as described in the decree of partition of the Rancho el Valle de San Jose, recorded in said Recorder's office in Liber Forty (40) of Deeds, at page 315, and running thence south, along the division line between said Plots Nos. Forty-six (46) and Forty-nine (49), eight (8) chains, eighty-five (85) links; thence west to the center of Laguna Creek and the easterly boundary line of the lands of J. Chadbourne; thence, in a general northwesterly direction along the center line of Laguna Creek and the lands of said J. Chadbourne, to a point where the said center line of said creek would be intersected by a line drawn south sixty-four (64°) degrees thirty-seven (37') minutes west from the point of commencement and thence north sixty-four (64°) degrees thirty-seven (37') minutes east to the point of commencement; containing eight and twelve hundredths (8.12) acres of land and being a portion of said Plot No. Forty-six (46):

The said tracts of land above described are the same tracts conveyed to said G. Howard Thompson by Thomas Francisco Antonio (sometimes called Thomas Francisco Antone), Roza Clara Antonio, his wife, Joseph F. Freitas and Maria J. de Freitas, his wife, and Serafino Enos by deed dated August 9th, 1900, and recorded in the office of the County Recorder of the County of Alameda in Volume 746 of Deeds at page 45.

XXXV.

Beginning at a stake marked "B. S. J. 14," situated on the left side of Alameda Creek, a short distance below the junction of the Calaveras and Laguna Creeks, the same being in Section Seventeen (17), Township Four (4) South, Range One (1) East; thence S. 79° W. 2.60 chains; thence N. 89½° W. 5.00 chains; thence N. 70½° W. 7.00 chains; thence N. 42° W. 13.00 chains; thence S. 28½° W. 5.00 chains; thence S. 39¼° W. 5.00 chains; thence S. 67½° W. 4.00 chains; thence S. 57½° W. 6.00 chains; thence S. 43¼° W. 8.00 chains; thence S. 55¼° W. 3.50 chains; thence N. 68½° W. 1.00 chains; thence S. 57° W. 3.00 chains; thence S. 70¼° W. 4.00 chains; thence N. 87¼° W. 4.00 chains; thence S. 30½° W. 2.45 chains; thence N. 80½° W. 3.36 chains to the center of Section Eighteen (18), Township Four (4) South, Range One (1) East; thence N. ½° W. 39.84 chains; thence S. 89° W. 23.80 chains; thence N. 19° W. 1.00 chains to the center of Alameda Creek; thence following the center of said creek, N. 67½° E. 8.27 chains; N. 51½° E. 12.00 chains; N. 68½° E. 7.43 chains; thence leaving the creek, N. ½° W. 1.45 chains to the fence on the southerly line of the Central Pacific Railroad right of way; thence along said fence, N. 88½° E. 6.50 chains; S. 78½° E. 7.57 chains; S. 70° E. 10.24 chains; thence leaving said fence, S. 20½° W. 4.67 chains; thence S. 38¼° E. 11.22 chains; thence S. 55½° E. 4.11 chains; thence S. 47° E. 24.73 chains; thence S. 84½° E. 9.92 chains; thence N. 88¼° E. 10.33 chains; thence N. 55½° E. 10.12 chains; thence S. 24° E. 7.99 chains; thence S. 46° W. 20.68 chains; thence N. 29° W. 12.33 chains to the point of commencement; containing 198.91 acres, more or less.

XXXVI.

Beginning at a point where the present traveled way of the County Road leading from Sunol through the Alameda Canon to Niles, intersects the center line of the ravine, forming or being the line dividing the lands of Francis King from the lands of Abbie E. Krebs, and running thence northwesterly along said present traveled way on a line uniformly distant fifty (50) links southerly from and parallel with the line of fence which now is the northerly boundary line of said County Road, as now traveled, to the quarter section line dividing the lands of Abbie E. Krebs and the lands of J. H. Mehrman, being a distance of 15.63 chains, more or less; thence S. 1.84 chains to the center of said Alameda Creek; and thence up the center of said Alameda Creek S. 59½° E. 14.91 chains; and thence leaving said creek and running up said ravine N. 22° E. 1.90 chains to the place of beginning; containing 2.78 acres:

XXXVII.

Commencing at a point in the southerly boundary line of the Rancho "Arroyo de la Alameda," in the Alameda Creek, about three hundred (300) yards above the site of the old Vallejo Mill, where a wire fence met said creek in the year A. D. 1857; thence down said creek with the meanderings thereof to a point where another wire fence met said creek, which point is about three hundred (300) feet west of the present traveled road leading from San Leandro to San Jose; thence northerly, along said wire fence or where the same stood in the year 1857, to a stake in or near the line of the present highway; thence in an easterly direction to the place of beginning; containing fourteen (14) acres, more or less; together with the race-way or flume, water privilege and easement, as the same have been at all times heretofore held, possessed and enjoyed; excepting therefrom so much of the said described land as was conveyed by Plutarco Vallejo to the Western Pacific Railroad Company for its roadway across said premises;

XXXVIII.

Tract of land on Alameda Creek near Vallejo's Mills being a portion of the Rancho Arroyo de la Alameda, beginning at a point on the right bank of the Alameda Creek at station J. V. 1 as described in the patent of the Rancho el Valle de San Jose, thence crossing said creek S. 57° E. 1.24 chains; S. 25° 45' W. 1.36 chains; S. 37° 30' W. 4.89 chains; S. 37° W. 8.00 chains; S. 74° 30' W. 11.42 chains; S. 53° 25' W. 2.25 chains; S. 46° W. 2.70 chains; S. 50° W. 4.00 chains; S. 34° W. 2.90 chains; S. 23° W. 5.34 chains; S. 2° 15' E. 4.94 chains; S. 5° 40' E. 6.70 chains; S. 0° 30' W. 8.30 chains; S. 4° 15' E. 3.20 chains; S. 67° W. 2.74 chains, to station J. V. 8; S. 68° W. 31 chains to station J. V. 9; N. 28½° E. 3.70 chains to stake at northeast corner of the tract known as the "Mill Property" S. 75½° W. along the north line of said mill property 2.35 chains to the line of the right of way of the Central Pacific Railroad through Alameda Canon, thence northeasterly up said canyon along the line of said right of way, with all its curvatures, 96 chains, more or less, to the northeast boundary line of said ranch, thence S. 44½° E. along said boundary line 63 links to the place of beginning; containing 38.42 acres. Comprising (7) the Sunol and Alameda Creek properties of 14,767.35 acres and (8) the Lagunas Creek property of 955.49 acres:

9. Calaveras Reservoir property, being sections thirteen (13), fourteen (14), twenty-four (24), twenty-five (25), and fractional sections eleven (11), fifteen (15), sixteen (16), twenty-two (22), twenty-three (23), twenty-six (26), thirty-five (35) and thirty-six (36), in Township Five (5) South, Range One (1) East; also:

Sections nineteen (19), twenty-nine (29), thirty-three (33), and fractional sections thirty (30) and thirty-one (31), Township Five (5) South, Range Two (2) east, containing in all 7,334 acres.

All properties under numbers 7 and 8, and two thousand four hundred and thirty-eight (2,438) acres under number 9 were deeded during 1902 by the Suburban Company to the Spring Valley Water Works, making a total area of land, thus deeded, of 18,160 acres, more or less.

Copies of the deeds to these properties are hereto annexed:

I.

Sections nineteen (19), twenty-nine (29), thirty-three (33), and lots five (5), six (6), seven (7), eight (8), nine (9) and ten (10) of section thirty-one (31), Township Five (5) South, Range Two (2) East; and

The south half of the northwest quarter, the north half and the southeast quarter of the southwest quarter, and the southwest quarter of the southeast quarter of section twenty-three (23), Township Five (5) South, Range One (1) East;

Containing in all two thousand three hundred and forty (2,340) acres, more or less:

II.

The northeast quarter of the northeast quarter of section fourteen (14), Township Five (5) South, Range One (1) East, Mount Diablo Base and Meridian; containing forty (40) acres:

III.

1. Commencing at the point of intersection of the center line of County Road number two thousand (2,000) with the dividing line between plots numbers forty-four (44) and forty-six (46) of the Rancho el Valle de San Jose, as said plots are numbered and described upon and in the decree of partition in the suit of Augustine Bernal vs. Juan Pablo Bernal et al., a certified copy of which decree is recorded in the office of the County Recorder of the County of Alameda in Liber 40 of Deeds, at page 315; and running thence westerly, along said dividing line, to the external line of the Rancho el Valle de San Jose, to-wit: the dividing line between the said Rancho el Valle de

San Jose and the Rancho Santa Rita, and the southwesterly corner of said plot number forty-four (44); thence north four (4°) degrees, five (5') minutes west, twenty-seven (27) chains, thirty-three (33) links, more or less, to a sycamore tree, marked "B. J."; thence north twenty (20°) degrees west, forty-nine (49) links, more or less, to the southern boundary line of land now or formerly belonging to E. R. Lilienthal; thence leaving said ranch line and along the said lands now or formerly belonging to said E. R. Lilienthal, north sixty-seven (67°) degrees east, seventeen (17) chains, seventy-eight (78) links, more or less, to the western line of land conveyed by the said Antonio H. Bernal and Griselda, his wife, to A. S. Baldwin by deed dated January 11th, 1900, and recorded in the said Recorder's office in Liber 726 of Deeds, at page 159; thence along said westerly boundary line of said Baldwin's land south eighteen (18°) degrees east, thirty-three (33) chains, forty-six (46) links, more or less, to the center of said county road number two thousand (2,000); thence along the center of said county road number two thousand (2,000) south sixty-four (64°) degrees six (6') minutes west, seven (7) chains, more or less, to the point of commencement; and also,

2. Commencing at the southwest corner of said plot number forty-four (44), and running thence easterly along the line dividing said plots numbers forty-four and forty-six (46) to the intersection of said dividing line, last named, with the center of county road number two thousand (2,000); thence south sixty-four (64°) degrees six (6') minutes west, along said center line, to the center of the main channel of the Arroyo de la Laguna; thence, along the center line of said Arroyo de la Laguna, northwesterly to the point of commencement; both parcels adjoining and containing in the aggregate seventy-six (76) acres, more or less, and being situate in Murray township.

Also in Township Four (4) South, Range Two (2) East: N. E. $\frac{1}{4}$ of section 14, 160 acres; S. $\frac{1}{2}$ of S. W. $\frac{1}{4}$ of section 12, 80 acres; all of section 13, 640 acres; W. $\frac{1}{4}$ of section 18, 320 acres; S. E. $\frac{1}{4}$ of section 18, 160 acres; all of section 19, 640 acres; N. $\frac{1}{2}$ of section 24, 320 acres; S. E. $\frac{1}{4}$ of section 24, 160 acres; N. $\frac{1}{2}$ of N. W. $\frac{1}{4}$ of section 30, 80 acres; N. E. $\frac{1}{4}$ of section 30, 160 acres; E. $\frac{1}{2}$ of S. E. $\frac{1}{4}$ of section 30, 80 acres; all of section 29, 640 acres; E. $\frac{1}{2}$ of section 32, 320 acres; all of section 33, 640 acres; making a total acreage in Alameda and Santa Clara Counties combined of about 27,600 acres.

WATER RIGHTS PURCHASED ON ALAMEDA CREEK SYSTEM.

1. All water rights on Alameda Creek and tributaries formerly belonging to the Alameda Water Company and purchased by the Spring Valley Water Works by deed of June 28th, 1875.

2. San Francisco and Oakland Water Works' interest in the lands of Ives and in water rights on Alameda Creek; deed dated June 25th, 1875, and recorded in Liber 109 of Deeds, page 457, Alameda County.

3. John Walpert: Fifty varas square, near settling tank on stone aqueduct, deed dated October 10th, 1888; recorded in Liber 369 of Deeds, page 276, Alameda County.

4. M. Ahern or Heron: Deed dated March 29th, 1888; recorded Liber G of Miscellaneous, page 69; Alameda; 12 acres and 45.62 acres in Washington and Eden townships; right to divert the waters of Alameda Creek at or above the Vallejo Mill stone chute, November 12th, 1887.

5. April 16th, 1888.

6. November 12th, 1888, Ahearn, Rodrigues, Camman.

7. Geo. and Wilhelmina Althaus: Deed dated October 26th, 1889, recorded Liber 567 of Deeds, page 268; 55 acres near Smith; and Lots Nos. 1, 2, 3, 4 and part of Lot No. 5, Block 70, Alvarano, right to divert the waters of Alameda Creek at or above the Vallejo Mill stone chute.

8. Alvarado Sugar Company: Deed dated October 30th, 1895; recorded 574 of Deeds, page 159, Alameda, 73.29 acres; 4.68x2.30x7.40 chains on creek. Right to divert the waters of Alameda Creek, at or above Vallejo Mills chute.

9. M. J. Bittencourt: Deed dated March 30th, 1888; recorded Liber G of Miscellaneous, page 71, Alameda; 13 acres, part of Nelson tract; right to divert waters of Alameda Creek at or above, but not below Vallejo Mills stone chute.

10. H. F. Baker: Deed dated May 12th, 1888; recorded in Liber G of Miscellaneous, page 104, Alameda; right to divert waters of Alameda Creek at Vallejo Mill stone chute.

11. Walker Baker: Deed dated May 7th, 1888; recorded in Liber G of Miscellaneous, page 106; 71.42 acres on road from Alvarado to Centerville; right to divert waters of Alameda Creek at Vallejo Mills stone chute.

12. Abijah Baker: Deed dated November 30th, 1889; recorded Liber G 396 of Deeds, page 345; Alameda; 100 acres between lands of Lowrie Estate and Wiseman, near Alvarado.

13. Right to divert waters of Alameda Creek at, but not below, Vallejo stone chute; further compensation to be paid, if same is decreed in Beard case, according to frontage, Beard's being 3244.56 feet and Baker's 1382.70; May 20th, 1899, paid in full for all demands under above agreement.

14. E. L. Beard: October 2nd, 1887 (September 26th, 1888); right to divert the waters at Alameda Creek or above, but not below, Vallejo Mills stone chute. Fur-

ther compensation to be paid or suit replaced on calendar after two years stay, without prejudice, September 26th, 1888.

15. J. G. Clark and E. H. Dyer: 369.82 acres on Decoto Road; deed dated March 1st, 1888; recorded in Liber G of Miscellaneous, page 54, Alameda; right to divert the waters of Alameda Creek at or above, but not below, Vallejo Mills stone chute.

16. E. Clark: Survey No. 58, Lot No. 68, 154.89 acres; Survey No. 59, Lot No. 69, 85.59 less 60.28 acres; surveyed by Scott & Miller; deed dated April 10th, 1888; recorded Liber G Miscellaneous, page 224, Alameda; right to divert the waters of Alameda Creek at or above, but not below, Vallejo Mills stone chute.

17. E. Clarke: December 18th, 1888.

18. Final settlement of above claim December 24th, 1898.

19. E. Clarke: Deed dated April 2nd, 1889; recorded Liber 368 of Deeds, page 171.

20. California Nursery Company (John Rock): 463.38 acres between Shinn and Peterson; right to divert at, but not below, Vallejo Mills stone chute as much as 36 inch pipe will carry, but no more, below a dam at junction of Calaveras and Alameda Creeks; grantor to have 12 inch pipe full as may be whenever there is water in creek; company to construct it for \$4,000.00; when no water in creek, company to furnish on demand 500,000 gallons per day from pipe, but not to exceed 50,000,000 gallons in one year; may demand 10,000 gallons per day, though water be running in Washington and Murray township ditch, same being charged against the 50,000,000 gallons; water may be delivered by pumps erected by company on land of grantor and from wells of grantor; dated June 30th, 1888.

21. J. R. Clough: Survey No. 80, Lot No. 60; deed dated March 1st, 1888; recorded, Liber G of Miscellaneous, page 8; right to divert waters of Alameda Creek at or above Vallejo Mills stone chute; subject to grant made to Washington & Murry Township Water Company; grantee to lay pipe and deliver 1,095,000 gallons per year free, with head sufficient to give 100,000 gallons daily in tank, seven feet above ground.

22. Hattie Camman: Deed dated December 8th, 1888; recorded Liber G of Miscellaneous, page 221; northerly portion of Lot No. 1, Block No. 35, on Maiden Lane, Union City; right to divert the waters of Alameda Creek at or above, but not below, Vallejo stone chute.

23. "Claudine": Matthew and Annie Clouding; February 14th, 1898; 201 feet; 1 acre tract on road from Centerville to Decoto part of Rodrigues tract.

24. E. F. Dyer: Dated March 28th, 1888; recorded Liber G of Miscellaneous page 57; April 3rd, 1888.

25. 20.36 acres at intersection on Alvarado road and S. P. Coast R. R., 1851 feet; "March 6th, 1888."

26. "March 21st, 1888, J. G. Clark & E. H. D."

27. E. H. Dyer: Dated March 1st, 1888; recorded Liber G of Miscellaneous, page 14, Alameda; 26.50 chains on Alameda Creek, commencing at Alvarado upper bridge; right to divert waters of Alameda Creek at or above, but not below, Vallejo Mill stone chute.

28. E. H. Dyer: 36.50 chains on Alameda Creek at Meek tract; runs to Emery tract; right to divert waters of Alameda Creek at or above, but not below, Vallejo Mill stone chute.

29. Manuel Enos: Dated November 4th, 1887; recorded Liber of F. Miscellaneous, page 462, Alameda.

30. Lot No. 2 of the Estate of Frank Williams; 15 acres; 6.44 chains on Alameda Creek; right to divert waters of Alameda Creek at Vallejo Mills stone chute; no rights to land itself intended to be conveyed.

31. Eureka Chemical Manufacturing Company: Dated April 17th, 1888; recorded Liber G of Miscellaneous, page 83, Alameda; 4.64 acres near Alvarado (in N. W. $\frac{1}{4}$ of Section 17); right to divert waters at or above, but not below, Vallejo Mill stone chute.

32. W. F. Emery: Dated March 5th, 1888; recorded Liber G, of Miscellaneous, page 142; 8.05 acres next E. H. Dyer (Section 11) near Alvarado; right to divert waters of Alameda Creek at or above Vallejo Mills stone chute.

33. H. B. Ellsworth: Dated October 17th, 1887; recorded Liber G of Miscellaneous; page 29; Survey No. 60, Lot No. 70, near Vallejo Mills; 189.92 acres, less 4 acres (Sec. 22, T. 4 S., R. 1 W.); right to divert waters of Alameda Creek above Vallejo Mills stone chute; subject to grant to Washington & Murray Township Water Company; Spring Valley Water Works to deliver 100,000 gallons per day in its own pipe for use on tract.

34. Mary Emerson and George and Frank Dennis: Dated June 19th, 1889; recorded Liber G of Miscellaneous, page 339; Lots Nos. 1 and 2, Block No. 61, Union City; right, title and interest of grantors in riparian rights on Alameda Creek.

35. George Emerson: Dated June 14th, 1889; recorded in Liber G of Miscellaneous, page 321, Alameda; same as above.

36. Manuel Ferreira: Dated August 24th, 1888; recorded Liber G of Miscellaneous; page 180; 50 acres south of Decoto on road from Alvarado to Centerville; right to divert waters of Alameda Creek at or above Vallejo Mills stone chute; if a pipe is laid along the County Road; grantor is to have 5,000 gallons per day free—to lay pipes.

37. Manuel Foster: Dated March 7th, 1888; recorded Liber G of Miscellaneous, page 86; 54.72 acres adjoining Union City; right to divert waters of Alameda Creek at any point at or above Vallejo Mill stone chute.

38. F. B. Granger and F. B. Granger, Jr.: Deed dated April 2d, 1888; recorded Liber G of Miscellaneous, page 50; 42.4 acres near Alvarado, 32.23 acres Banson's Landing; Lot on 10th Street, Union City; Lots Nos. 3, 4, 5, 6, Block No. 61; Lot adjoining Wiley Place, Lot on Canal Street, excepting property of Eureka Chemical Works; right to divert waters of Alameda Creek at or above Vallejo Mill stone chute.

39. Pat Geary and wife: Dated May 25th, 1891; recorded Liber 435 of Deeds page 174; northeast $\frac{1}{4}$ of Section 11, T. 5 S., R. 1 E.; right to divert waters of Alameda Creek at any point at or above Vallejo Mill stone chute.

40. Maurice Gallivan: Dated May 16th, 1888; recorded Liber G of Miscellaneous, page 115; 48.77 acres, Tract No. 1 of Rancho Arroyo de la Alameda, except a strip 80 feet wide, containing 2 acres on line between swamp lands of G. & Howard 11.90 chains on creek (Section 9, T. 4 S., R. 2 W.); right to divert waters of Alameda Creek at or above Vallejo Mill stone chute.

40A. The description in this deed (foregoing) being found to be incorrect, a new deed was given, dated May 27th, 1890; recorded Liber 404 of Deeds, page 332.

41. P. Gilbert: Dated April 7th, 1888; recorded Liber G of Miscellaneous, page 89; part of the Nelson Tract, Alvarado; right to divert waters of Alameda Creek at or above, but not below Vallejo Mills stone chute.

42. L. Gregory and A. E. G. Bush: Dated October 24th, 1887; recorded Liber F of Miscellaneous, page 440; 4.91 acres on line of road from Centerville to Decoto, less one acre on the west and 11 square rods on the east; right to divert waters of Alameda Creek.

43. Geo. George: Dated February 17th, 1888; recorded Liber G of Miscellaneous, page 155; 39 acres between Alvarado and Centerville; right to divert waters of Alameda Creek, at or above, but not below, Vallejo Mill stone chute.

44. Mrs. Isadora Joyce: Dated May 22d, 1893; recorded Liber 510 of Deeds, page 89; 35 feet, Union City; portion of Block No. 35, bounded north by Alameda Creek, south by Maiden Lane, east by Funk, west by Cameron (Camman.)

45. J. M. and Emily H. Ingalls: Dated March 13th, 1888; recorded Liber G of Miscellaneous, page 119; 27.22 acres and 10 feet strip adjoining Vanderpeer, near Alvarado; right to divert the waters of Alameda Creek at or above Vallejo Mill stone chute.

46. W. F. and Margaret C. Ingalls: Dated March 13th, 1888; recorded Liber of Miscellaneous, page 122; 25.61 acres adjoining above tract; right to divert the waters of Alameda Creek at or above Vallejo Mill stone chute.

47. Francis and Bridget King: Dated June 16th, 1891; recorded Liber 438 of Deeds, page 382;—A in N. W. $\frac{1}{4}$ S. E. $\frac{1}{4}$ and N. E. $\frac{1}{4}$ of S. E. $\frac{1}{4}$ of Section 12, T. 4 S., R. 1 W.; right to divert waters of Alameda Creek, etc., at any point.

48. Catherine K. Liston: Dated July 5th, 1888; recorded Liber G of Miscellaneous, page 137; Lots Nos. 4, 7, 8, 9, 10, 11, Block No. 80, Alvarado, Brooklyn Hotel; right to divert waters of Alameda Creek at Niles Canyon.

49. Mathew Lasido: Dated May 7th, 1888; recorded Liber 389 of Deeds, page 30; Lots Nos. 21 and 22 and part of Lots Nos. 20 and 23, Centerville, Stevens Tract; right of way for pipe confined to Bane Avenue.

50. Mary Lowrie, Executrix: Dated April 23d, 1890; recorded Liber 367 of Deeds, page 400; Lowrie Estate at Centerville; decree of condemnation of water rights; agreement as to 30,000 gallons per month to be delivered at a point to be designated by Lowrie and to run with the land; Spring Valley Water Works to Mary Lowrie, widow of John Lowrie, deceased, and Mary Ellen Lowrie, John C. F. Lowrie, Geo. P. Lowrie and Josephine Lowrie, children of said Mary and John Lowrie; to be delivered while the water is running regularly in main of Spring Valley Water Works from Alameda Creek; deed March 30th, 1889, acknowledged but not recorded.

51. Ambrose J. and Elmira Lattin: Dated January 28th, 1889; recorded Liber G of Miscellaneous, page 292; portion of Lots Nos. 3, 4, 5, Block No. 35, also lot on Lever Street, Alvarado; right to divert waters of Alameda Creek at or above Vallejo Mill stone chute.

52. Sophia and Henry May et als.: Dated September 3d, 1888; recorded Liber 355 of Deeds, page 122; 83.26 acres and 4.81 acres on road from Alvarado to San Leandro; final decree of condemnation, right to divert waters of Alameda Creek at or above Vallejo Mills stone chute.

53. F. H. Meek, W. Meek, S. Meek: Dated February 27th, 1888; recorded Liber G of Miscellaneous, page 145; undivided 8-10.

54. W. E. Meek: Dated May 8th, 1889, undivided 1-10.

55. Meek: Dated January, 1891, undivided 1-10; 129.33 acres in Section 11, T. 4 S., R. 2 W., near Alvarado.

56. H. McWhinney: Dated November 1st, 1887; recorded F. of Miscellaneous, page 436; 25.66 acres on road from Centerville to Decoto, near bridge, 2,200 feet on creek right to divert waters of Alameda Creek at Vallejo Mills stone chute.

57. W. H. Moffit and wife: Dated April 7th, 1888; recorded Liber G of Miscellaneous, page 90; land in Union City; right to divert waters of Alameda Creek at any point above inlet of Vallejo Mills stone chute.

58. T. J. Mahan and E. Salz: Dated June 11th, 1888; recorded Liber G of Miscellaneous, page 163; 53.65 acres on road from Centerville to Alvarado; right to divert waters of Alameda Creek at Vallejo Mills stone chute.

59. J. M. Noia: Dated October 26th, 1887; recorded Liber F of Miscellaneous, page 433; 99.12 acres between Shinn and Bittencourt tracts; part of Survey No. 83, Lot No. 93; right to divert; Spring Valley Water Works to furnish 1,000 gallons per day free to grantor's tank on demand, but it has not been demanded.

60. W. A. Nelson: Dated June 30th, 1888; recorded Liber G of Miscellaneous, page 144; $\frac{1}{4}$ of an acre in town of Union City; right to divert waters of Alameda Creek at or above Vallejo Mills stone chute.

61. Jas. Nichols: Dated February 15th, 1888; recorded Liber F of Miscellaneous, page 469, Survey No. 81 (Lot No. 91), next to Shinn; 90,000 gallons per month free, delivered to grantor's tank opposite Niles.

62. H. Overacker: Dated November 1st, 1887; recorded Liber G of Miscellaneous, page 16; Survey No. 84 (Lot No. 94); 246.53 acres, excepting Gomez and Nelson tracts; also 17 acres (Lloyd or Petty); right to divert waters of Alameda Creek at or above Vallejo Mills stone chute; Spring Valley Water Works to deliver to grantor's tank 70,000 gallons per week for use on land in question.

63. Pacific Land Investment Company: Dated March 13th, 1888; land near Alvarado; right to take waters of Alameda Creek at any point at or above Vallejo Mills stone chute.

64. Pacific Improvement Company: February 7th, 1890.

65. May 13th, 1890: Land on South Side of right of way of the Western Pacific R. R., near Niles; right to take waters of Alameda Creek.

66. Henry Pierce and H. A. Mayhew: Dated November 29th, 1889; recorded, Liber 387 of Deeds, page 124; 38.42 acres, north of Vallejo Mills' property, and all of Survey No. 60 lying north of road from Niles to Sunol; right to divert waters of Alameda Creek; right to maintain flumes, etc., right to waste, but not to flood lands in question; grantors to have free water through 100 feet of one inch pipe on lands of Mayhew.

67. M. S. Peixote: Dated April 3d, 1888; recorded Liber G of Miscellaneous, page 67; on road from Centerville to Decoto, between lands of Mrs. Baker and Gregory and Bush; right to divert waters of Alameda Creek at Vallejo Mills stone chute.

68. J. H. Petersen: Dated February 27th, 1888; recorded Liber G of Miscellaneous, page 148; acres adjoining Rock Nursery, 12.96 chains on Alameda Creek; right to divert water at or not below Vallejo Mills stone chute; and Spring Valley Water Works agrees to defend grantor against any action brought on account of this grant.

69. M. S. Perez: Dated May 27th, 1888; recorded Liber G of Miscellaneous, page 128; 57.33 acres on road from Centerville to Alvarado; right to divert waters of Alameda Creek above Vallejo Mills stone chute only; Spring Valley Water Works to furnish 1,000 gallons per day for use on this land gratis; grantor to lay pipe; has also granted riparian rights to Washington and Murray Township Water Company.

70. J. Quigley: Dated May 16th, 1888; recorded Liber G of Miscellaneous, page 139; 200 acres in Washington Township; 2 acres in Block 37 in Union City; right to divert waters at Niles Dam.

71. D. Riley: Dated April 3d, 1888; recorded Liber G of Miscellaneous, page 111; beginning at line of Heron (Ahern) and Smith 11.70 chains on the creek; right to divert waters of Alameda Creek at or above Vallejo Mills stone chute.

72. Jos. Rose: Dated November 26th, 1878; recorded Liber 171 of Deeds, page 285; S. E. $\frac{1}{4}$ of S. E. $\frac{1}{4}$ of Section 12, T. 4 S., R. 1 W.; right to divert waters of Alameda Creek at any point above.

73. Antone Rodrigues and M. A. de S. Rodrigues: Dated July 23d, 1888; 18 acres, Lot No. 1, Washington Township, near land of J. C. Whipple; right to divert waters of Alameda Creek at or above Vallejo Mills stone chute.

74. Fanetta Ralph: Dated December 7th, 1888; recorded Liber G of Miscellaneous, page 228; Lot No. 81, Block No. 78, Alvarado; right to divert waters of Alameda Creek at Vallejo Mills stone chute.

75. Rankin and Dyer: (Alameda Water Company to Spring Valley Water Works); dated June 28th, 1875; recorded Liber 109 of Deeds, page 461: Beginning at a point in the easterly line of C. C. Scott's land in the middle of Alameda Creek; thence up the middle of said creek, as far as the official survey of Thos. Robinson extends and the lands hereby intended to be conveyed, lying on both sides of said line or creek, and running back therefrom to line of highest flow of the waters thereof, so as to include the mill race built thereon by J. J. Vallejo; on the east and west sides said lands are bounded by lines crossing said creek at right angles; also sufficient land outside and contiguous to said high water line upon which to erect buildings to use the water power of said creek and to dig or erect flumes to make the same available; also all stone quarries that may exist within five chains of the said middle line of said creek, the workings of which will not interfere with the cultivation of arable land.

76. D. Sanborn: Dated April 4th, 1888; recorded Liber G of Miscellaneous, page 59; Survey 29, Lot 89, between Ellsworth and Clough; 41.69 acres in T. 4 S., R. 1 W.; right to divert waters of Alameda Creek at Vallejo Mills stone chute; Spring Valley Water Works to deliver daily, free, 5,000 gallons in tank erected by Sanborn not more than ten feet above the ground; water to be used only on this tract; also right of way for pipe; earth to be restored and all damages paid.

77. J. F. Silveria: Dated December 14th, 1887; recorded Liber F of Miscellaneous, page 445; five acres next to land of M. Ignacio; right to divert waters of Alameda Creek at Vallejo Mills stone chute.
78. John Silveria: Dated October 30th, 1889; recorded Liber 385 of Deeds, page 81; 40 acres on road from Centerville to Alvarado; right to divert waters of Alameda Creek at Vallejo Mills stone chute.
79. L. C. Smith: Dated June 4th, 1888; recorded Liber G of Miscellaneous, page 126; commencing at southwest corner of Section 4, T. 4 S., R. 2 W.; right to divert waters of Alameda Creek at Vallejo Mills stone chute.
80. Jas. Shinn: Dated February 9th, 1888; recorded Liber G of Miscellaneous page 24; 93.10 acres, 112.01 acres, 25.68 acres, adjacent to town of Niles; right to divert waters of Alameda Creek at or above Vallejo Mills stone chute; Spring Valley Water Works to deliver free to tank of grantor 70,000 gallons per week as long as water is taken from creek.
81. Jas. Shinn and L. E. Shinn, his wife: Dated June 29th, 1894; Shinn's Island, 39.57 acres; recorded Liber ; right to divert waters of Alameda Creek at or above Vallejo Mills stone chute; releases from all claims.
82. S. Salz and Niehaus: Dated March 28th, 1888; 2.87 acres on road from Decoto to Centerville; right to divert waters of Alameda Creek at or above Vallejo Mills stone chute; Salz, December 10th, 1888.
83. Salz, December 19th, 1888.
84. Salz, August 12th, 1890.
85. Jas. Soas, October 29th, 1887.
86. John F. Stevenson: Dated March 29th, 1888; recorded Liber G of Miscellaneous, page 73; 404.74 acres, adjoining Lowrie Estate, near Centerville; 40.94 chains on creek; right to divert waters of Alameda Creek at, but not below, Vallejo Mills stone chute and no other rights; Spring Valley Water Works to furnish 2,500 gallons per day, free, for use on said land; grantors to lay pipe; to permit grantor to lay pipe through its lands, if necessary.
87. H. A. Tay and O. J. Backus: Dated March 26th, 1888; lots in Union City; right to divert waters of Alameda Creek at or above Vallejo Mills stone chute.
88. F. Vargas: Dated December 14th, 1887; recorded Liber F of Miscellaneous, page 446; 12 acres, Lot No. 3 of William's Estate, on "Dry Creek" (about 1 mile southwest from Decoto); 6.10 chains on Alameda Creek; right to divert waters of Alameda Creek at Vallejo Mills stone chute, but no title in lands themselves intended to be conveyed.
89. D. Van Ness: Dated March 1st, 1888; recorded Liber G of Miscellaneous, page 117; 381.54 acres, near Alvarado; right to divert waters of Alameda Creek at Vallejo Mills stone chute, but not to interfere with bed of creek in this tract; reserves right to all waters which flow past dam down to him.
90. J. G. Vanderpeer: Dated May 29th, 1888; recorded in Liber G of Miscellaneous, page 124; 72.33 acres next Ingalis, on road from Niles to Alvarado, less two tracts of eight acres each; right to divert waters of Alameda Creek above Vallejo Mills stone chute.
91. J. C. and E. Whipple: Dated February 16th, 1888; recorded Liber G of Miscellaneous, page 21; acres near Decoto, 96.80 chains down Alameda Creek; right to take waters of Creek at stone dam, but not below.
92. J. C. Whipple and J. B. Shark: Dated February 16th, 1888; recorded Liber G Miscellaneous, page 6; 62.17 acres adjoining Meek Tract, 27.50 chains on Alameda Creek for both tracts; right to direct waters of Alameda Creek at, but not below, Vallejo Mills stone chute.
93. J. C. Whipple: Dated February 16th, 1888; recorded Liber G of Miscellaneous, page 19; 49.80 acres in Section 18, 11.29 chains on Alameda Creek; right to divert waters of Alameda Creek at, but not below, Vallejo Mills stone chute.
94. D. Weigman: Dated October 27th, 1888; recorded Liber G of Miscellaneous, page 219; southerly part of Block No. 70, Alvarado, and Lot No. 1 and Fractional Lot 12, Block No. 80; right to divert waters of Alameda Creek at or above Vallejo Mills stone chute.
95. G. F. Wiseman: Dated December 19th, 1888; recorded in Liber G of Miscellaneous, page 226; 50 acres adjoining Ralph property, on road from Centerville to Alvarado; 22.55 chains on creek; right to divert at or above Vallejo Mills stone chute.
96. Edward and Alice E. Watkins: Dated November 27th, 1891; recorded Liber 454 of deeds, page 255; the N. E. $\frac{1}{4}$ and N. E. $\frac{1}{4}$ of N. W. $\frac{1}{4}$ Section 10, T. 5 S., R. 1 E.; right to divert Alameda Creek, feeders or tributaries, at or above Vallejo Mills stone chute.

RIGHTS OF WAY PURCHASED ON ALAMEDA CREEK SYSTEM.

1. Central Pacific Railroad: Right of way over line near Niles; deed dated May 10th, 1888; recorded Liber 367 of Deeds, page 233, Alameda; Spring Valley Water Works to pay for any damage caused at any time by breaks, or by repairing same.
2. E. Clarke: A right of way for one conduit, 3,500 feet, more or less, deed dated December 24th, 1898.

3. Mary Ives Crocker and Kate May Dillon: Deed dated December 30th, 1898; recorded Liber 1 of Miscellaneous, page 203; right of way for flume over part of Section 11, Township 4 South, Range 1 West.

4. Geraldine Frisbie: Dated September 16th, 1887; recorded Liber 42 of Deeds, page 540; dated July 25th, 1888; recorded Liber 45 of Deeds, page 113, Alameda; right of way for 36 inch pipe and trestle over tract of _____ acres, near Ravenswood, San Mateo County; 2611x1406 feet, from Kavanaugh to Flood and Mackay; all damages to be paid for; if line is changed a new right of way must be paid for. Deed of July 25th, 1888; gives right to blow off and change courses and distances slightly.

5. Estate of W. F. Goad; Ella Goad Hooker, Executrix: Dated June 14th, 1899; recorded Liber 703 of Deeds, page 234; right of way for aqueduct over tract of 1784.64 acres; Survey No. 57, etc., Ex-Mission San Jose; excepting Nichols, Champion, Fonte, Walpert and some other previous deeds.

6. Chas. Kavanaugh: Dated July 5th, 1888; recorded Liber 44 of Deeds, page 157; _____ acres, near Ravenswood, San Mateo County; right of way for iron pipe; Spring Valley Water Works to pay for any subsequent damage.

7. Morgan Oyster Company: Dated December 12th, 1887; recorded Liber 44 of Deeds, page 420; 1,500 gallons of water per diem; right of way for trestle across tide lands of grantor.

8. Henry Pierce, Henry A. and Emily P. Mayhew: Dated May 4th, 1899; recorded Liber 703 of Deeds, page 191; right of way for aqueduct over lands of Pierce, between Clarke and Ellsworth, also conveys "Picnic Grounds"; see also folio 42 of Deeds Alameda.

9. South Pacific Coast Railroad: Dated May 10th, 1888; and hydrant water free at Newark; right of way for pipe from west side of Newark to Centerville.

10. Dumbarton Land and Improvement Company: Right of way for pipe lines thirty-three (33) feet wide and fourteen thousand (14,000) feet long across marsh to Dumbarton Point; also one hundred (100) feet frontage on each side of Jarvis Slough and two hundred (200) feet frontage on Bay of San Francisco, at Dumbarton Point.

11. Deed from University of California and J. W. Mackay for right of way, thirty-three (33) feet wide and two thousand (2,000) feet long, on west side of Bay of San Francisco.

12. Various rights of way for A-1 pipe through lands of Hobart, Hill, etc.

13. Right of way from Ellsworth, near Niles.

INVENTORY OF THE WORKS OF THE SPRING VALLEY WATER COMPANY NOW IN USE, JANUARY 1st, 1905.

PILARCITOS

One earth dam, with clay puddle-wall, riprap and floating boom; height above valley about ninety (90) feet; depth of puddle-pit about forty (40) feet below valley.

Reservoir capacity nearly one thousand million gallons.

Large brick tunnel waste-weir, with gate-house and three (3) large iron gates, with hoisting gear.

Large chute, partly of brick and the rest of timber, connected with waste-weir outlet.

One earth dam, called the "upper dam."

One dwelling house of keeper, men's quarters, barns and outhouses.

One stone and brick outlet gate-house, with two heavy iron gates, with hoisting apparatus and building.

Nine thousand seven hundred (9,700) feet of 14x42 inch and twelve hundred (1,200) feet of 12x14 inch wooden side flume and feeders, with diverting dams.

One thousand five hundred and fifty (1,550) feet tunnel, 42x54 inches in the clear, brick lined.

Two hundred and eighty (280) feet large wooden flume, on trestle, and waste and measuring tank.

Three thousand four hundred and twenty (3,420) feet tunnel, 42x54 inches in the clear, brick-lined.

Seven hundred and fifty (750) feet forty-four (44") inch wrought-iron pipe, with man-holes, blow-offs and air valves, and one iron bridge on concrete piers.

Two thousand one hundred and fifty (2,150) feet of wooden flume, 36x60 inch, with regulating tank.

Main conduit, consisting of:—

Seven hundred and seventy six (776) feet twenty four (24") inch cast-iron pipe.

Two thousand four hundred (2,400) feet twenty-two (22") inch wrought-iron pipe.

Sixty-five thousand one hundred and seventy (65,170) feet of thirty (30") inch wrought-iron pipe and bridges, manholes, blow-offs, air-valves, etc.

Five thousand two hundred and fifty (5,250) feet of wooden flume, 38x44 inches.

Two thousand eight hundred and twenty (2,820) feet tunnel, 36x52 inches, brick-lined;

One (1) measuring tank.

Two (2) tank houses, containing two (2) tanks and two (2) separate pumping plants

Two (2) screen houses.

One (1) large wooden tank, one half million gallons capacity. Mem. From here the water discharges into Lake Honda Reservoir in San Francisco.
(See San Francisco Distributing System.)
Rights of way for all flumes, tunnels and pipe-lines.

SAN ANDREAS.

One earth-dam, with clay puddle-wall, riprap and floating boom; height above valley about ninety (90) feet; depth of puddle pit about forty (40) feet above valley. Reservoir capacity nearly six thousand million gallons.
Large brick tunnel waste-weir, with gate-house and four (4) heavy large brass faced gates, 4'x5', and hoisting apparatus, and timber chute connected with waste-weir outlet
Dwelling house of keeper, barn and outhouses at dam.
House for watchman, barn and outhouses at upper end of lake.
Boarding house, men's quarters and stable at screen-house.
House for watchman, barn and outhouses at Davis Tunnel.
Two (2) outlet gate-wells, one of brick, twenty six (26) feet in diameter, about eighty (80) feet deep, connected with reservoir by brick tunnel, and thirty eight (38') inch heavy iron inlet pipe on brick piers, and one (1) thirty-eight (38") inch, and one twenty-two (22") inch gate—each with hoisting apparatus.
Second forebay of concrete in three (3) compartments, about sixty eight (68) feet deep, with four (4) large, heavy brass-faced gates, connected with the above brick forebay and with sub-forebay in lake, with thirty (30") inch cast-iron pipe, Concrete shaft to tunnel.
Feeder conduit, two thousand seven hundred and eighty (2,780) feet of wooden flume 18x40 inch, and four thousand four hundred and eighty (4,480) feet of twenty-two (22") inch wrought-iron pipe (waste, from Pilarcitos).
Davis tunnel, heavily concrete-lined, four (4) feet four (4) inches by four (4) feet eight (8) inches, one thousand two hundred (1,200) feet long; inlet flume and concrete dam and feed ditch; heavy wooden chute; one thousand two hundred and seventy (1,270) feet long, tapering from five (5) feet by three (3) feet ten (10) inches to four (4) feet by two (2) feet nine (9) inches.
Two thousand eight hundred and twenty (2,820) feet of tunnel, forty-two (42) inches by fifty-four (54) inches in the clear. brick-lined.
One (1) measuring tank.
One (1) large screen-tank.
Three thousand eight hundred and sixty (3,860) feet of eight (8") inch terra cotta, and Three thousand six hundred (3,600) feet of eight (8") inch cast-iron sewer pipe.
Twenty eight thousand eight hundred and thirty (28,830) feet forty-four (44") inch heavy pipe, wrought-iron with iron bridges on concrete piers, manholes, blow-off, air-valves, culverts, etc.
About one thousand four hundred (1,400) feet of thirty-seven (37") inch wrought-iron-pipe, on heavy high-piled trestle at Baden, including gate.
About nine hundred, (900) feet of piled bulkhead, on nine (9) acre tract, Baden.
Thirty nine thousand three hundred (39,300) feet of thirty (30") inch wrought-iron pipe, with manholes, blow-offs, air valves and bridges.
One (1) aerator near College Hill Reservoir, with thirty (30") inch gate and stand-pipe. This water discharges into the College Hill Reservoir in San Francisco.
Rights of way for all tunnel and pipe lines.

CRYSTAL SPRINGS.

One (1) earth-dam, with clay puddle-wall and riprap, called "Upper Dam"; height above valley about eighty (80) feet; depth of puddle-pit about eighty (80) feet below valley.
One (1) tunnel, brick-lined, eight hundred and fifteen (815) feet in length, with inlet stand-pipe and brick-tower, with forty-two (42) inch brass faced heavy gate and hoisting gear, and forty-two (42") inch heavy wrought-iron pipe; one (1) double heavy concrete waste-weir, tunnel and chute.
One (1) large concrete dam, height above valley, one hundred and forty-five (145) feet; depth of cross-cut about fifteen (15) feet.
Present reservoir capacity about nineteen thousand million gallons.
One (1) brick gate-tower, fourteen (14) feet diameter in clear, connected with reservoir by three (3) forty-four (44") inch cast iron pipes, incased with brick arch, and three heavy brass-lined forty-four (44") inch gates with one (1) fifty (50") inch cast and wrought-iron stand-pipe.
Three (3) large iron fish-screens.
One (1) brick tunnel, seven and one-half (7½) feet in diameter, three hundred and fifty eight (358) feet long, containing a fifty-four (54") inch wrought-iron pipe of same length.
One (1) brick gate-well with forty-four (44") inch heavy, brass-faced regulating gate. Concrete wall at north end of dam, in cut twelve (12) feet wide, seventy (70) feet deep,

and over three hundred and fifty (350) feet long; heavy clay embankment on either side of the same.

Three (3) keepers' houses, men's quarters and stables.

Eighty-seven thousand two hundred and sixty (87,260) feet of forty-four (44") inch wrought-iron pipe, with bridges, manholes, blow-offs, air-valves and five thousand four hundred and seventy-six (5,476) feet of pile trestle-bridge and one thousand three hundred and sixteen (1,316) feet of concrete pier bridge.

Three hundred (300) feet tunnel (bricked around forty-four (44") inch pipe.)

Two thousand one hundred and forty-five (2,145) feet brick tunnel.

One (1) large measuring and screen-tank with house.

From this screen-tank the water discharges into the University Mound Reservoir, or into the forty-four (44") inch city main pipe direct.

Rights of way for all tunnel and pipe lines.

NEW AQUEDUCT TO SAN ANDREAS.

One (1) granite and brick dam, about thirty-five (35) feet high, with waste-weir and blow-off gate.

Side flume, 12 inches by 14 inches.

Four thousand three hundred (4,300) feet redwood flume, 48x60 inches.

Three thousand two hundred (3,200) feet brick-lined tunnel, 42x54 inches in clear.

Eleven thousand six hundred (11,600) feet redwood flume, 36x60 inches, with several high trestles.

One (1) earth-dam, twenty (20) feet above valley, with puddle-pit and deep puddle trench, with concrete waste-weir connecting with large timber chute, and twelve (12") inch waste pipe and gate.

One (1) concrete dam, about forty-two (42) feet high, with waste weir and sixteen (16") inch cast-iron outlet and gate.

One (1) large settling tank.

Three thousand five hundred and thirty (3,530) feet concrete-lined tunnel, 52x54 inches.

Two thousand nine hundred and eighty (2,980) feet wooden flume, 48x72 inches.

Two thousand one hundred (2,100) feet forty-four (44") inches wrought-iron pipe, with manholes, blow-offs, etc., and two (2) mouth pieces and two (2) bridges.

Nine thousand six hundred and thirty (9,630) feet 48x72 inch redwood flume and several large trestles, near San Andres Dam.

Four hundred and seventeen (417) feet, 48x72 inch concrete aqueduct.

Four hundred (400) feet forty-four (44") inch pipe, wrought-iron (chute into lake).

Keepers' houses at stone dam and San Mateo Creek.

Boarding and sleeping houses, barns, outhouses and cottages at Sawyer Camp.

SUNOL FILTER BEDS

Concrete diverting dam and head-gate at canal inlet, under County Road Bridge.

Fifteen thousand six hundred (15,600) feet of canal and main branches, leading the water to the Sunol filter-bed and delivering the same to the southeast end of the upper timbered intake filter-gallery and also to Calaveras Creek.

Concrete culverts and tunnels, with gate, on above canal, of an aggregate length of eight hundred and sixty seven (867) feet.

Redwood flume, three (3) feet by five (5) feet, and trestle on canal line; one hundred and nine (109) feet, with concrete inlet and outlet.

Upper intake filter-gallery, eight (8) feet wide, heavily timbered, one thousand one hundred and seventy-seven (1,177) feet in length.

Extensive excavations and construction of levees in the Sunol Valley, in connection with the opening up of the filter beds and protecting them against floods.

Large heavily timbered receiving gallery, two thousand five hundred and twenty (2,520) feet long.

Main upper concrete gate-house with two (2) large iron brass-faced gates, hoisting gear and concrete forebay.

Main, heavily lined concrete filter gallery, five (5) feet by five (5) feet six (6) inches in the clear, from main filter gate-house to Sunol Dam, fifty-nine hundred and thirty (5,930) feet in length.

Upper concrete branch filter-gallery, three (3) feet by five (5) feet in the clear, with gate-house, two (2) brass-faced gates and manhole tower, eleven hundred and forty-four (1,144) feet in length.

Lower concrete branch filter-gallery, three (3) feet by four (4) feet six (6) inches in the clear, with gate-house, one (1) brass-faced gate and two (2) manhole towers five hundred (500) feet.

About three thousand (3,000) of one and one-fourth (1 $\frac{1}{4}$ ") inch and one and one-half (1 $\frac{1}{2}$ ") inch galvanized filter pipes in main and branch galleries, each with brass wire screen at inlet end.

Three (3) concrete manhole towers, with iron manholes.

Fish ladder, heavy floating timber raft, attached to Sunol Dam (to neutralize effect of undertow, caused by heavy overflow over dam.)

Keepers' and watchman's houses, engineer's cottage, dining room and kitchen at camp, sleeping quarters, office, barns, and outhouses and wind-mill pumping plant and frame.

SUNOL AQUEDUCT.

Main concrete gate-house with three (3) large cast iron brass-faced gates, with hoisting apparatus at north end of Sunol Dam.

Main concrete dam at Sunol forming the upper portion of the Sunol aqueduct one hundred and eighty seven (187) feet in length (flood waters of Alameda Creek discharge over the top.)

Concrete manhole, tower and bulkhead at south end of Sunol dam, at which manhole the long Sunol aqueduct concrete tunnel begins.

Main Sunol aqueduct tunnel heavily lined with concrete, five (5) feet by five (5) feet six (6) inches in the clear, fourteen thousand one hundred and one (14,101) feet (in five (5) sections).

Concrete sand-box and blow-off at Brightside.

Main flume of best redwood, six (6) feet by three (3) feet, eleven thousand nine hundred and twenty-eight (11,928) feet.

Five (5) concrete manholes, below Sunol dam.

Large concrete screen basin near Niles, with screens, gates, blow-offs and other fittings, with concrete waste-weir and other frame buildings.

Keeper's house, windmill and barn at Brightside, and screen tender's house near Niles.

ALAMEDA PIPE LINE.

One hundred and forty-three thousand one hundred and fifty (143,150) feet of thirty-six (36") inch wrought-iron pipe, connecting the above Niles screen-basin with Belmont pumping station and the forty-four (44") inch Crystal Springs pipe and the new fifty-four (54") inch pipe at Burlingame.

Eighteen thousand nine hundred and sixty (18,960) feet of trestle on piles over salt marsh on east and west sides of San Francisco Bay; pipe boxed in for two thousand five hundred (2,500) feet more.

Four gate-houses, with four (4) extensions all on heavy pile foundations for submarine pipe connections.

Thirteen thousand five hundred and sixty-three (13,563) feet sixteen (16") inch ball joint (first) submarine galvanized pipe, five sixteenths (5-16) of an inch thick.

Shore connections of same, four (4) complete sets, with two (2) large air-chambers, two (2) shock valves, four (4) large iron screen drums, with brass removable screens, manholes, blow-off gates and pressure gauges; also twelve (12) heavy sixteen (16) inch regulating and shut off gates.

Thirteen thousand six hundred (13,600) feet, twenty-two (22") inch ball-joint (second) submarine galvanized pipes, three-eighths (3/8") of an inch thick.

Shore connections of same, four (4) sets complete; with eight (8) heavy sixteen (16") inch regulating gates and four (4) heavy twenty-two (22") inch shut-off gates, and four (4) eight (8") inch by-pass gates; also four (4) large screen drums, with removable screens, man-holes, blow-offs, gates and pressure gauges.

Also four hundred and eighty (480) feet of twenty-four (24") inch cast-iron pipe and four (4) sets of extra-heavy cast-iron connection pieces.

Sixteen thousand seven hundred and fifty-eight (16,758) feet fifty-four (54") inch new Alameda wrought iron pipe-line, with manholes, air-valves, blow-offs, concrete bridges, with iron beams, etc., connection of fifty-four (54") inch pipe with above thirty-six (36") inch Alameda pipe-line at Burlingame and with the forty-four (44") inch Crystal Springs pipe at Millbrae Pumping Station.

These connections required:—

Twelve (12) heavy sixteen (16") inch bolts, riveted to the respective iron pipes; fifty (50) lineal feet of heavy thirty (30") inch cast-iron fittings, such as pipes, tees, etc.; three hundred (300) feet, more or less, of sixteen (16") inch cast-iron pipes and fittings and twelve (12) additional sixteen (16) inch gates (four of which with outside spindles); one thousand (1,000) feet, more or less, of new eight-inch cast-iron sewer, for Burlingame, with seven (7) brick manholes on County Road.

Alameda Creek connections with above Alameda pipe-line near Niles in use for supplying water exchanges for riparian rights, on Alameda Creek, which latter rights are in actual use in supplying San Francisco with water.

Masonry bedrock across Alameda Creek, two and one-quarter miles above Niles; gate-tower, with gate, near dam.

Stone aqueduct, three (3) feet six (6") inches by three (3) feet, brick lined and arched over by brick arch, with manholes; two-thousand seven hundred (2,700) feet long.

Stone screen and settling basin, seventy-six (76) feet long and seventeen (17) feet wide, nine (9) feet deep, with building over same.

Wooden screen and settling tank, forty (40) feet long by sixteen (16) feet wide and eight (8) feet deep, with building over same.

Three thousand two hundred (3,200) feet of redwood flume, 48 by 32 inches deep.

Five thousand seven hundred and sixty (5,760) feet of thirty-six (36") inch wrought-iron pipe.
 Forty (40) feet of twenty-two (22") inch cast-iron pipe, with one (1) twenty-two (22") inch water gate, with blow-off pipe and gate.
 Pratt truss iron-bridge over Alameda Creek, near Niles, in three (3) spans of one hundred and thirty-four (134) feet, two (2) inches each, on iron cylinders filled with concrete.
 Cottage for keeper, cellar and store-room; barn.
 Upper screen-house and lower screen-house; store house at Niles.

WORKS ON LAGUNA CREEK PROPERTY

One thousand four hundred and seventy eight (1,478) feet of heavily timbered gallery six (6) feet by twenty (20) feet deep, with eleven (11) heavily timbered well-pits, with concrete bottoms; pits are six (6) feet by eleven (11) feet by twenty (20) feet deep; each of the eleven (11) wells in these well-pits mounted with cast-iron caps and brass-faced gates.
 Near Laguna Creek, concrete forebay, with gatehouse and two (2) large brass-faced iron gates, with hoisting gear; also one hundred and seven (107) feet of concrete tunnel, three (3) feet by five (5) feet, three (3") inches in clear, with gate and concrete aprons.
 Concrete pit at east end of timbered gallery.
 Two (2) concrete bulkheads, four (4) feet by eighteen (18) feet by twenty (20) feet deep, with two (2) clay bulkheads.
 Sixty (60) feet of twenty (20") inch cast-iron pipe, with twenty (20") inch water-gate on same.
 Twenty (20") inch by twenty (20") inch T, and twenty-one (21) feet of twenty (20") inch stand pipe in sections.
 Forty-eight (48) feet of six (6") inch pipe and six (6") inch gate connected with large timbered gallery.
 Double concrete forebay, outside measurements ten (10) feet by eleven and one-half (11½) feet, by twenty-nine (29) feet deep, containing two (2) vertical cast-iron lined shafts, twenty-four (24") inches diameter, and two (2) open concrete shafts, three (3) feet by three and one-half (3½) feet each, with twenty-four (24") inch by twenty-four (24") inch brass-faced iron gates, with hoisting gear.
 Frame building over same.
 Main pipe lines, conducting well water into above concrete forebay, and timbered gallery consisting of:
 Six hundred and fifty-three (653) feet of twenty-four (24") inch cast-iron pipe.
 Five hundred and fifty-nine (559) feet of twenty (20") inch cast-iron pipe.
 One thousand and seventy six (1,076) feet of sixteen (16") inch cast-iron pipe.
 Four hundred and seventy eight (478) feet of twelve (12") inch cast-iron pipe.
 Seventeen (17) feet, two and one-half (2½") inches of sixteen (16") inch wrought-iron pipe, with brass-faced foot valve:
 Cast-iron Ts, of the respective sizes, connect the above main pipes by means of six (6") inch branch pipes, six (6") inch gates, elbows and caps, to the wells along the line. A number of cast-iron elbows and caps and one (1) twelve (12") inch gate were used in completing the two pipe lines.
 The top of the wells, so connected with the main pipes, are mounted with a concrete slab of about one-half (½) cubic yard each. They have a cast-iron flange fastened at the top, to which a cap is bolted with a six (6") inch wrought-iron pipe, twenty-one (21) feet long, fastened to the same and projecting down into the ten (10") inch wells, and having a brass foot valve at its lower end, while the above mentioned six (6") inch elbow and gate, etc., are fastened to the top of the cap. These ten (10") inch wells are surrounded by a fourteen (14") inch iron casing, from fifteen (15) feet to thirty (30) feet deep and a space between the ten (10") inch and fourteen (14") inch pipes is filled with cement. Each of these wells has a six (6") inch cast-iron waste-pipe into the waste ditch, hereafter mentioned.
 In the above mentioned building there is a small steam plant, supplemented (in case of accident) by a gasoline plant, for the purpose of removing such gas or air out of the main pipes as rises with the water out of the wells.
 Of the one hundred and four (104) wells sunk on the Laguna Creek property, there are thirty-three (33) wells connected with the above described timbered gallery, and Twenty-six (26) wells with Laguna Creek direct, by a system of open ditches, ten thousand seven hundred and twenty (10,720) feet in length, with a heavily timbered forebay and tunnel at its northerly terminus.
 There is also a waste-water ditch along the above-described main pipe-line which discharges into the above mentioned ditch system, and has a length of two thousand eight hundred (2,800) feet additional.
 Boarding-house, lodging house, store-house and foreman's residence and barn.
 Four (4) miles, more or less, of fencing.
 Right of way for two (2) pipe or conduit lines through the Hearst Ranch, adjoining the Laguna Creek property.

San Francisco

Reservoir and Pipe Systems.

LAKE HONDA.

Capacity thirty-three million gallons. Brick, stone and concrete lined, with brick gate-well and two (2) concrete regulating walls, with seven (7) large, brass-faced gates, two (2) large check-valves, gears, gates, screens, etc. Brick lined outlet tunnel, seven hundred and fifty (750) feet long, containing sixteen (16") inch pipe, with gates and check-valve. Brick-lined outlet tunnel, five (5) feet in clear, about one hundred and eighty-seven (187) feet long. Keepers' houses, stable, fence, sewer forebays and complete sewer system, etc. Complete large sewer system of brick around entire south and west sides of Lake Honda Reservoir, carrying Alms House sewerage and flood waters.

UNIVERSITY MOUND RESERVOIR.

Capacity thirty-three million gallons. Earth embankment, lined with concrete, felt and asphaltum on sides and bottom. Brick gate well and brick lined tunnel, screens and two (2) large brass-faced gates. Keeper's house, stable, fences, sewers, etc.

COLLEGE HILL RESERVOIR.

Capacity fifteen million gallons. Clay embankment lined with stone. Brick gate-well, with gates and brick-lined outlet tunnel, one hundred and eight (108) feet long, with heavy brass-lined gate. New concrete gate-house, with gates, etc., nearly finished. Keeper's house, stable, fences, etc.

CLAY STREET TANK.

Capacity two hundred and twelve thousand gallons. Iron, circular, sixty (60) feet diameter by eleven (11) feet deep, set on concrete foundation, gates, etc. Iron standpipe, with tank and solid timber frame. Concrete retaining wall, about seven hundred (700) feet long, five (5) feet nine (9) inches high. Concrete stairs on rear alley, fences.

PRESIDIO HEIGHTS TANK.

Steel, circular, sixty (60) feet diameter, thirty-five (35) feet deep, with inside steel uprights and braces. Capacity up to overflow fully seven hundred thousand gallons. Set on solid concrete foundation, sixty-eight (68) feet in diameter. Overflow pipes, gates, iron stairway; covered with tight flooring; picket fence on concrete foundation walls.

UPPER RUSSIAN HILL.

Capacity, when full, about three million seven hundred thousand gallons. Clay embankment, lined with brick-work. Brick gate-wells, gates. Keepers houses, fences. Heavy concrete retaining wall on Lombard Street. Roof.

LOWER RUSSIAN HILL.

Capacity about six million gallons, when full. Clay embankment lined with brick work. Brick gate-wall, gates and brick-lined outlet tunnel, four (4) feet by four (4) feet eight (8) inches in clear.

CLARENDON HEIGHTS TANK.

Capacity five hundred and sixty-four thousand gallons. Steel, circular, eighty (80) feet in diameter by fifteen (15) feet deep, set on concrete foundation, gates, etc.

POTRERO HEIGHTS RESERVOIR.

Capacity about one million gallons. Excavated in rock, brick-lined. Concrete gate-well, gates and brick-lined outlet tunnel, five (5) feet in clear. Keeper's house, fence around reservoir, wooden tank.

Pumping Stations

BLACK POINT.

A Corliss Compound Condensing Engine, 200-horse power (jet condenser); three million gallon capacity, delivery height four hundred and fourteen (414) feet. A Corliss Compound Condensing Engine, 200-horse-power (surface condenser); three and a quarter million gallons capacity; delivery height four hundred and fourteen (414) feet. One (1) Day Heater. One Heine Boiler, 175 horse-power. One (1) Babcock and Wilcox Boiler, 134 horse-power. One (1) Hazelton Boiler, 200 horse-power. Two (2) Engine Houses, finished inside and galvanized iron covered. Two (2) Boiler Houses, galvanized iron covered. One Blacksmith shop and Outhouses, One (1) Brick Chimney, ninety (90) feet high. One Coal Wharf, about sixty (60) feet square and runway. One (1) Iron Chimney, sixty (60) feet high. Machinery and Boilers, all on heavy concrete foundations and in A-1 condition. Feed pumps, traveling cranes, etc. Long brick tunnel, two thousand two hundred (2,200) feet long, used as a reservoir. Concrete suction well, suction pipes, etc. Complete oil-burning plant with storage tanks, pumps, pipes, burners, electric light plant, etc. Sewers, etc.

PILARCITOS PUMPS.

Three (3) Dow Compound Condensing Pumps, total capacity four million gallons daily, lift two hundred and thirty (230) feet. Sixteen (16") inch suction pipe from tunnel and one (1) sixteen (16") inch gate. One (1) independent jet condenser and air pump. Two (2) Heine Boilers, one hundred and seventy-five (175) horse-power each. Two (2) Iron Chimneys, forty-two inches by eighty feet (80) high. Two (2) feed pumps. One (1) air chamber. One (1) stand-pipe, thirty (30") inches diameter nearly sixty (60) feet high, with trestle. One (1) engine house. One (1) boiler house. Three sixteen (16) inch gates, connections with thirty (30) inch Pilarcitos pipe. About one thousand two hundred and fifty-seven (1,257) feet sixteen (16") inch cast-iron force-pipe. Two hundred and fifty (250) lineal feet drainage tunnel, four (4) feet six (6") inches by six (6) feet high.

LAKE MERCED PUMPS.

Two (2) Corliss Compound Condensing Engines, three hundred (300) horse-power each; capacity three and one-half million gallons each; lift four hundred and sixty (460) feet. Two (2) jet condensers. Four (4) Babcock and Wilcox boilers, one hundred and thirty-six (136) horse-power each. Two iron chimneys, forty-four (44") inches diameter by sixty (60) feet high. Two (2) feed pumps. Two (2) traveling cranes. One (1) large engine house. One (1) large boiler house. All above on concrete foundations. Two (2) dwelling houses and outhouses. One (1) large coal-bunker, one thousand (1,000) tons capacity. Complete oil-burning plant, with iron storage tanks and one large storage tank, pumps, pipes, burners, etc. One (1) large shock chamber. One (1) wharf and heavy timber boom. Two (2) suction pipes and fish screens. One (1) long new wharf, five hundred and sixteen (516) feet long, with suction pipe, foot-valve and fish screen. One thousand six hundred and twenty-four feet (1,624 ft.) of new twenty-four (24") inch cast-iron suction pipe on new wharf and along heavy grade along north bank of south lake. Cast-iron connections of same, with original two (2) twenty (20) inch suction pipe with gates, etc. New concrete suction well, near pumps, with twenty-four (24") inch suction pipes and two (2) twenty-four (24") inch gates. Special broad-gauge railroad track, about one and one-half (1½) miles long, with very heavy cuts and fill and culverts. Six thousand two hundred and thirty-one (6,231) feet of heavy, twenty-three (23") inch wrought-iron force-pipe with air chambers, manholes, blow-offs, air-valves and trestle bridge. Also two thousand nine hundred and twelve (2,912) feet heavy thirty (30") inch wrought-iron pipe. Six thousand two hundred and twenty-five (6,225) feet of twenty-two (22") inch wrought-iron suction pipe, connecting San Andres (30) inch main pipe with Lake Merced Pumping Station; also eight hundred and seventy (870) feet of heavy eighteen (18") inch pipe, from San Andres thirty (30") inch pipe to large pressure tank at Ocean View, with ball cock, gates and other fittings. Complete aerating plant on Ocean View hill, with thirty (30") inch regulating gate and thirty (30") connections with Pilarcitos main pipe. Large waste flume from above aerator down to San Andres thirty (30") inch pipe. Electric light plant.

BELMONT.

Two (2) Corliss Compound Condensing Engines, two hundred and fifty (250) horse-power each; daily capacity six million gallons each. Two (2) jet condensers. Six (6) Babcock and Wilcox boilers, total capacity sixteen hundred (1,600) horse-power

Three (3) feed pumps. Five (5) traveling cranes. Green economizers. Two (2) Day heaters. Three (3) new Corliss Compound Condensing Pumping Engines, of two hundred and ten (210) horse-power each; daily capacity four million (4,000,000) gallons each; each with air pump and jet condensers. All of the above on heavy concrete foundations. One (1) large engine house, and one (1) large boiler house; both galvanized iron covered and on concrete foundations. Two (2) dwelling houses and outside houses. One (1) large, heavy stand pipe, one hundred and thirty-seven (137) feet high, on large concrete foundation. Heavy frame, one hundred and thirty-five (135) feet high, surrounding same; guy ropes and concrete anchor blocks. One (1) four million gallons receiving reservoir, with roof. Seven (7) concrete gate wells, with seven (7) large gates; concrete suction wells of injection water, with valves, etc. One (1) coal bunker and railroad track and trestle. One thousand and seventy-two (1,072) feet of thirty (30") inch heavy force-pipe from pumps to stand pipe. Three hundred and one (301) feet of thirty-six (36") inch heavy suction pipe between reservoir and wells and pumps. Two hundred and thirty (230) feet of three and one-half (3½) feet by five (5) feet concrete suction tunnel. Wrought-iron air and vacuum chambers, and heavy cast-iron connection pieces, such as elbows, bends, crosses, S pipes, etc., on suction and force pipes of each pumping plant. Six (6) heavy sixteen (16") inch gates on force-pipes. Heavy thirty (30") inch wrought-iron connection pieces two hundred and thirty (230) feet long, with two (2) bumped heads at ends, two (2) long elbows, and nine (9) sixteen (16") inch nozzles, riveted on, connecting three (3) new pumps at one end with thirty (30") inch force-pipe at the other end. Also heavy straps bolts, tie-rods, turn buckles, and heavy concrete blocking. Also complete steampipe connections, from six (6) to ten (10") inches diameter, with valves, expansion joints, etc. Complete repair shop with tools. Eight (8) iron oil tanks; one (1) large concrete oil tank; total capacity seventy thousand (70,000) gallons. Complete oil-burning outfit. Two (2) twenty-two (22") inch drain pipes, eight hundred and eighty (880) feet long each; and one (1) thirty (30") inch drain pipe, three hundred and twelve (312) feet long. One (1) large concrete pipe culvert, under railroad. One (1) large concrete pipe culvert. Electric light plant.

CRYSTAL SPRINGS.

Four (4) duplex, heavy Thompson and Evans compound, condensing fly-wheel pumps; total capacity twelve million gallons to about two hundred and seventy-five (275) feet elevation. Two (2) independent fly-wheel air-pumps. Two (2) large surface condensers. Four (4) Babcock and Wilcox boilers, one hundred and sixty (160) horse-power each. One (1) large iron chimney, sixty (60) inches diameter by sixty (60) feet high. One (1) large Day heater. One (1) large concussion chamber, sixty (60") inches by nine (9') feet four (4") inches in height. One (1) relief sixteen (16") inch stand-pipe, fully three hundred (300) feet long. About three thousand five hundred and twenty-five (3,525) feet of sixteen (16") inch heavy cast-iron force-pipe, with three (3) sixteen (16") inch A-1 gates and complete connections with pumps. Large number of fittings connecting pumps with pipes in building, such as Ts, crosses, elbows, gates, air chambers, etc. About two hundred and seventy-four (274) feet of twenty-four (24") inch cast-iron suction pipe, with two (2) sixteen (16") inch connections and gates, with main Crystal Springs pipe in tunnel. Twelve (12) inch and eight (8) inch cast-iron pipe system for circulating water, also connecting with forty-four (44") inch main. Six thousand three hundred (6,300) feet of flume, twenty-six (26") inches by forty-eight (48) inches; and two (2) miles of flume, two and one-half (2½) feet by five (5) feet. One (1) large engine house and large boiler house, corrugated iron. Buildings and machinery on heavy concrete foundations. One (1) large concrete coal bunker. New force-pipe connection of pumping station with forty-four inch (44") Crystal Springs main pipe line. Four (4) sixteen (16") inch gates. Two hundred and eighty-two (282) feet twenty-two (22") inch wrought and cast-iron pipe. Two hundred and twenty-six (226) feet of thirty-six (36") inch heavy wrought-iron pipe, with elbows, straps, bands, bump heads, six (6) sixteen (16") inch welded nozzles; concrete piers. Two (2) dwelling houses, stables and outhouses.

MILLBRAE.

Two (2) Corliss Compound Condensing Pumping Engines, three hundred (300) horse-power each, and eight million gallons capacity each to about two hundred and ten (210) feet, net lift. Two (2) surface condensers. Four (4) Babcock and Wilcox boilers, one hundred and sixty (160) horse-power each. One (1) iron chimney, sixty (60) inches diameter by sixty (60) feet high, on heavy brick foundation. Two (2) Green's economizers. Two (2) Day's heaters. Two (2) feed pumps. Two (2) traveling cranes. Three (3) large concussion chambers, sixty (60) inch diameter by twenty-two (22) feet high. Two (2) shock and relief valves. One (1) sixteen (16") inch and one (1) twelve (12") inch circulating pipe. All on heavy concrete foundations, and housed in. One (1) large concrete oil tank. Four (4) iron oil tanks, pumps, pipes and connections for burning oil. Four (4) sixteen (16") inch gate connections to forty-four (44") inch main pipe. One (1) double stand pipe, about seventy (70) feet, all on concrete foundation. One (1) large concrete reservoir, with outlet forebay, gates

and tunnel. One (1) thirty (30") inch gate and one (1) thirty (30") inch check valve and other connections. Four thousand two hundred and seventy-three (4,273) feet of thirty (30") inch wrought-iron pipe, connecting pumps, reservoirs and stand-pipes. Waste-weir overflow. Seven thousand three hundred and ninety-four (7,394) feet of heavy wrought-iron thirty (30") inch force pipe, with all connections and two (2) iron bridges on concrete piers. Switch, railroad, heavy trestle and large concrete coal-bin; also about three hundred and seventy-five (375) feet of two (2) feet by four (4) feet flume. Large corrugated iron engine and boiler house; also corrugated iron air chamber house; all on concrete foundations. Fully two-fifths (2-5) of a mile of iron twenty-two (22") inch sewer pipe, crossing railroad to slough. Two (2) dwelling houses; one (1) store-house and gate-house. One (1) dipping kettle, with hoisting apparatus, and six (6) pipe sheds.

CLARENDON HEIGHTS.

Two (2) poppet compound condensing engines, one hundred and ten (110) horse-power each; one and one-fourth million gallons capacity, each delivery, to about five hundred and twenty (520) feet lift. Two (2) surface condensers and heaters. One (1) Day heater. Two (2) Heine boilers, one hundred and twenty-five (125) horse power each. Double brick building and boiler house and smoke stack on heavy concrete foundations. Two (2) feed pumps, two (2) traveling cranes, etc. One (1) work-shop and one (1) store-house, tools, fittings, etc. Four (4) oil tanks, pumps, pipes, and complete oil-burning outfit.

LAKE MERCED PROPER.

Earth dam, one at North Lake, stone facing, with concrete forebay and large iron gate, and forty-four (44") inch long wrought-iron outlet pipe in tunnel. Second dam between two lakes, with brick gate well and forty-four (44") inch gate and pipe, bricked in tunnel, one hundred and sixty-two (162) feet long. Seventeen (17) miles of fence and five (5) miles of roads. Entire area between lakes and ocean seeded and planted, which successfully stopped encroachments on the lake by the sand dunes. Two (2) dwellings, two (2) stables, and several out-houses.

LAKE MERCED DRAINAGE SYSTEM.

Concrete bulkhead and brick canal and wooden chute. Two (2) earth embankments for two (2) settling ponds; lower one with heavy double-sheet piling and clay puddle-pit in between. One (1) brick-lined canal, about four thousand (4,000) feet long. One (1) brick-lined tunnel, connecting canal with ocean, about three thousand one hundred (3,100) feet long. Two (2) cast-iron six (6") inch water-pipes in brick work along entire length of tunnel. Brick gate-house, with two (2) large gates and connecting tunnel with south lake. Ocean View flume, fully one (1) mile long, with high trestles and large thirty (30") inch iron and concrete culvert under railroad. Nine thousand two hundred (9,200) feet of eight (8") inch sewer pipe, consisting of six thousand five hundred and sixty-eight (6,568) feet of eight (8) inch iron stone sewer pipe, laid in ground, with two (2) trestles, one seventy-five (75) feet high in center and five hundred (500) feet long; one thirty-five (35) feet high in center and two hundred and thirty (230) feet long; on both trestles are laid eight (8") inch cast-iron pipes.

DRAINAGE SYSTEM OF NORTH LAKE MERCED.

One (1) earth diverting dam. Concrete inlet to thirty (30") inch main pipe. Three thousand three hundred (3,300) feet of canal. Two thousand six hundred and thirty-seven (2,637) feet of thirty (30") inch wrought-iron pipe, with two (2) concrete mouth-pieces. One (1) concrete elbow. One (1) concrete apron. Thirty (30") inch wrought-iron pipe goes over two high trestles, with concrete foundations (same trestle as above).

SUNDRIES.

Eighty-five (85) miles of telephone lines; seventy-two (72) miles of fences; forty-five (45) miles of roads.

PIPE LAID IN SAN FRANCISCO DISTRIBUTING SYSTEM SUPPLIED FROM CITY RESERVOIRS.

Size of Pipe	Feet of Pipe Laid.
3 inch.....	130,969
4 inch.....	362,024
6 inch.....	571,603
8 inch.....	665,601
10 inch.....	8,489
12 inch.....	255,088
16 inch.....	125,237
20 inch.....	21,840
22 inch.....	19,183
24 inch.....	34,844
30 inch.....	4,494

Mem: Cast-iron pipe is extra heavy, especially from 8 inch up.

WROUGHT IRON PIPE.

Size of Pipe	Feet of Pipe Laid.
13 inch.....	850
22 inch.....	25,481
30 inch.....	12,669
33 inch.....	2,510
37½ inch.....	12,254
44 inch.....	7,213

GATES.

Total number of gates set in San Francisco Distributing Pipe System up to January 1st, 1905:

Size.....	Number
3 inch.....	63
4 inch.....	400
6 inch.....	814
8 inch.....	1,053
10 inch.....	8
12 inch.....	450
16 inch.....	145
20 inch.....	11
22 inch.....	20
24 inch.....	32
30 inch.....	2
37½ inch.....	1
44 inch.....	1

Bituminous and other pavements cut, mended and replaced in first-class order.

All fittings, as gates, boxes, and covers, lead, elbows, crosses, tees, bolts, straps plugs, etc., wharf hydrants and wharf connections hung from wharfs, and all other work required for a first-class distributing system.

Two hundred and fifty-three and one-third (253½) miles of service pipe, from one-half (½) inch to two (2") inches in diameter.

Seven thousand five hundred and forty-one (7,541) regular meters; and

Seven thousand one hundred and two (7,102) trial meters, with boxes, covers, connections, etc., and all other work necessary for a complete service-pipe system.

Two hundred and twenty-five (225) feet tunnel forty-four (44") inch pipe, bricked in.

Eight hundred and sixty (860) feet trestle over Islais Creek, carrying forty-four (44") inch pipe, boxed in.

One thousand one hundred and twenty (1,120) feet tunnel, forty-four (44") inch pipe, bricked in.

(Mem: Forty-four (44") inch pipe, in above three items, is accounted for in the city distributing systems, but not the tunnels and brick work.)

At Lake Honda, five hundred (500) feet tunnel, concrete sides, bottom and top, five (5) feet six (6") inches in clear, carrying thirty (30") inch pipe.

At Lake Honda, six hundred and forty (640) feet sewer tunnel, with six hundred and seventy (670) feet of twenty-four (24") inch cast-iron pipe, concreted in.

Both tunnels are on 7th Avenue, between K and L Streets.

Carville tank, trestle, foundation, tank building, etc.

Company's office, stable and buildings, blacksmith shop, and sheds at pipe yard.

Yard graded, paved and fenced.

Horses, trucks, wagons, harness, blacksmith's supplies and tools, cast iron fittings, lead sleeves, meters, tools and entire equipment for work of company in city and county

WATER RATES

mains, for painting, coating, laying, repairing pipe, and for excavating and refilling trenches, mending pavements, etc.

PIPES AND MATERIALS ON HAND IN COMPANY'S PIPE YARDS.

In San Francisco, in yards at Bryant Street, Market Street Lot and Francisco Street Reservoir Lot:—

CAST-IRON PIPE.

Size of Pipe	Feet
3 inch.....	3,636
4 inch.....	8,904
6 inch.....	2,436
8 inch.....	15,372
10 inch.....	132
12 inch.....	9,660
16 inch.....	11,652
20 inch.....	732
22 inch.....	24
24 inch.....	2,952
30 inch.....	72

WROUGHT-IRON PIPE.

Size of Pipe	Feet
22 inch.....	108
30 inch.....	18
36 inch.....	234
44 inch.....	98
16 inch Submarine Pipe.....	72
22 inch Submarine Pipe.....	275
Fittings, Gates, Check-Valves on hand:	
Cast-iron pipe fittings.....	292½ tons
Wrought-iron pipe fittings.....	15¼ tons

WATER GATES.

Size	Number
3 inch.....	16
4 inch.....	3
6 inch.....	12
8 inch.....	12
12 inch.....	11
16 inch.....	2
22 inch.....	4

CHECK VALVES.

8 inch.....	1
10 inch.....	1
16 inch.....	1

MATERIALS ON HAND.

Lead.....	19,215 lbs.
Coal.....	7½ tons
Paraffine Paint.....	1 bbl.
Asphaltum.....	17 bbls.
Coal Tar.....	6 bbls.

Complete blacksmith shop, with tools and iron, steel, horse-shoes, nails, etc.

One (1) asphaltum dipping trough;

Thirty-two (32) horses;

Seven (7) trucks;

Three (3) wagons;

Twelve (12) express wagons;

Nine (9) buggies;

One (1) hose cart;

Harness;

Fifty-five (55) tons hay;

Four hundred and eighty (480) centals oats

METERS.

Size	Number
$\frac{1}{2}$ inch.....	11
$\frac{3}{8}$ inch.....	114
$\frac{1}{2}$ inch.....	13
1 inch.....	18
1 $\frac{1}{2}$ inch.....	10
2 inch.....	50
3 inch.....	9
4 inch.....	8
6 inch.....	7

GALVANIZED PIPES.

Size	Number
$\frac{1}{2}$ inch.....	720
$\frac{3}{4}$ inch.....	2,050
1 inch.....	350
1 $\frac{1}{4}$ inch.....	1,035
1 $\frac{1}{2}$ inch.....	1,036
2 inch.....	2,704
3 inch.....	14

Many pipe fittings, lead pipe, tools, etc.

PIPES AND MATERIALS AT MILLBRAE YARD.

380 feet heavy	54 inch wrought-iron pipe
4,113	" 44 inch "
1,369	" 36 inch "
17,451	" 30 inch "
99	" 26 inch "
10	" 24 inch "
3,234	" 22 inch "
120	" 18 inch "
31	" 15 $\frac{1}{2}$ inch "
48	" 12 inch "
373	" 9 inch galvanized pipe

AT MILLBRAE PUMPS.

22,536 gallons crude oil;
 1 $\frac{1}{2}$ bbls. cylinder oil;
 1 bbl. engine oil;
 Many valves and pipe fittings, tools, etc.

MATERIALS, SUPPLIES AND TOOLS ON HAND AT BELMONT JANUARY 1st.
 1905.

1 6-H. P. gas engine;
 1 10-H. P. gas engine;
 2 Hydraulic Jacks;
 3 Hand Force Pumps;
 1 Worthington Compound Duplex Pump;
 1 No. 5 Dow Pump;
 2 No. 2 Hooker Pumps;
 1 Wagner Duplex Pump;
 2 Concrete Mixers, Shafts, Pulleys etc.
 1 Portable Locomotive Boiler, new
 1 Portable Centrifugal Pumping Engine and Boiler;
 4 inch 8x12 feet Horizontal Engines;
 1 Rock Crusher;
 1 Set Engine Wheels and Axles;
 Boiler Plate, Rails, Bar Iron;
 3 Heberer Blowers, 15 inch;
 1 Sturtevant Blower, 10 $\frac{1}{2}$ inch;
 1 4-inch Centrifugal Pump;
 8 7-inch Globe Valves;
 3 5-inch Pop Safety Valves;
 800 feet of Pipe, $\frac{1}{2}$ -inch to 4-inch;
 60,260 Gallons of Fuel Oil;
 52 Tons of Coal;
 Many Valves and Pipe Fittings.

MATERIALS, SUPPLIES AND TOOLS ON HAND AT SAWYER CAMP,
JANUARY 1, 1905.

1 Four-horse Wagon, Rock and Coal Bed No. 1;
2 Four-horse Wagons;
1 Two-horse Wagon;
1 Two-horse Wagon;
1 Heavy Two-horse Spring Wagon;
1 Medium Two-horse Spring Wagon;
1 Light Two-horse Spring Wagon, 1,200 lbs. capacity;
1 Light Two-horse Spring Wagon, 1,000 lbs. capacity;
1 Light Two-horse Spring Wagon; 1,000 lbs. capacity;
1 Water Cart and 50 feet of 1 inch Hose;
3 Mowing Machines;
1 Road Grader;
1 One-horse Rake;
1 Breaking Cart;
9 sets Harness;
1 set Heavy Single Harness;
4 Saddles;
700 Fence Posts (new);
24 Good Horses;
Telephone Repair Outfit; Telephone Wire;
Lumber and Repair Materials in yard at Sawyer Camp and along Lock's Creek line;
Tools, Hay, Grain, etc.

MATERIALS, SUPPLIES AND TOOLS ON HAND AT NILES, JANUARY 1, 1905.

245 feet 36-inch wrought-iron pipe;
61 feet 12-inch wrought-iron pipe;
40 feet 8-inch cast-iron pipe;
Open Sleeves, Bands, Galvanized Pipe and Fittings, Lumber, Nails, and Repair Materials
along Sunol Aqueduct.

MATERIALS, SUPPLIES AND TOOLS ON HAND AT CALAVERAS DAM,
JANUARY 1st, 1905.

1 Portable Boiler, new;
1 Portable Boiler (J. S. Heald);
1 Portable Enright Engine;
1 No. 10 San Francisco Tool Co. Centrifugal Pump;
1 6-inch Byron Jackson Centrifugal Pump;
1 Worthington Duplex $7\frac{1}{2} \times 4\frac{1}{2} \times 10$ No. 14,491;
1 Hooker Steam Pump No. 1, No. 488;
1 Douglass Hand Pump No. 6;
1 Force Hand Pump No. 4;
1 Force Hand Pump No. 3;
Chain Tongs, Wrenches, Globe-valves, Rubber Pump Valves, Suction Hose, Pipe,
Many fittings, Materials, etc.

MATERIALS, SUPPLIES AND TOOLS ON HAND AT PLEASANTON,
JANUARY 1st, 1905.

132 pieces cast-iron pipe, 24 inch diameter;
8 pieces cast-iron pipe, 20 inch diameter;
4 pieces cast-iron pipe, 16 inch diameter;
2 pieces cast-iron pipe, 8 inches diameter;
300 feet cast-iron pipe, 6 inch diameter;
20 feet cast-iron pipe, 24 inch diameter;
And many fittings, well-pipes, tools, etc.

MATERIALS, SUPPLIES AND TOOLS ON HAND AT SUNOL,
JANUARY 1st, 1905.

1 Locomotive Boiler and Engine;
2 Wheeler Crushers, Golden State and Miners' Iron Works;
4,272 feet of 24 foot car-rails;
4,940 feet of 20 foot car-rails;
1,760 feet of 16 foot car-rails;
47 Iron Car Bodies;
33 Iron Car Trucks;
23 sets Car Wheels (4 to one set);
8 Wooden Car Bodies for Concrete;
2 5x5 foot $\frac{1}{4}$ inch Iron Switch Plates;
2 Iron Switches; and
Many Fittings, Tools, etc., and Boarding-House Utensils, etc.

MATERIALS, SUPPLIES AND TOOLS ON HAND AT CRYSTAL SPRINGS PUMP,
JANUARY 1st, 1905.

110 tons of Coal, many Pipes, Fittings, Tools, etc.

MATERIALS, SUPPLIES AND TOOLS ON HAND AT PILARCITOS PUMPS,
JANUARY 1st, 1905.

30 tons of Coal, and many Fittings, Tools, etc.

EXHIBIT NO. 2.

STATEMENT OF SPRING VALLEY WATER COMPANY, SHOWING THE NAME OF EACH WATER RATE PAYER, HIS OR HER PLACE OF RESIDENCE AND THE AMOUNT PAID FOR WATER BY EACH SUCH WATER RATE PAYER DURING THE YEAR 1904; AND ALSO SHOWING ALL REVENUE DERIVED FROM ALL SOURCES, AND AN ITEMIZED STATEMENT OF EXPENDITURES MADE FOR SUPPLYING WATER DURING SUCH TIME. (On file in clerk's office, Board of Supervisors.)

EXHIBIT NO. 3.

San Francisco, January 26, 1905.

To the Honorable the Board of Public Works
of the City and County of San Francisco.

Gentlemen—In pursuance of your instructions, as directed by Resolution No. 5358 of the Board of Supervisors, to prepare and file "an appraisalment of the properties of the Spring Valley Water Company, actually used in furnishing the City and County of San Francisco, and the inhabitants thereof, with a pure and wholesome supply of water," I have the honor to submit the following appraisalment. It agrees in the main with those submitted in preceding years, the cost of the betterments of the past year being added to the original valuations. It does not include any properties which are not at present in use.

APPRAISEMENT.

Pilarcitos System—

Dam, pipe line, etc., as itemized in report dated Jan. 31, 1902	\$ 869,410	
Lands in reservoir site, 105 acres at \$1,250 per acre	131,250	
Lands in watershed, 3,800 acres at \$60 per acre	228,000	
		\$1,228,660

San Andreas System—

Dam, pipe line, etc., as itemized in report dated Jan. 31, 1902 (\$1,152,077) with betterments made in 1902 and 1903 added at about cost	\$1,164,665	
Locks Creek Aqueduct, not including works above the stone dam, which are not at present in use	329,861	
Lands in reservoir site, 475 acres at \$1,250 per acre	593,750	
Lands in watershed, including about 2,150 acres tributary to Locks Creek Aqueduct, 4,310 acres at \$60 per acre	258,600	
Pilarcitos pumps, at San Andres screen-house, complete with stand-pipe and 16-inch discharge to the Pilarcitos pipe-line	30,167	
Ocean View pump, complete with suction from San Andres main pressure tank, and discharge to the Lake Merced force main	15,658	
Betterments for 1904 at cost as given by Spring Valley Water Company, Ashton Tract, 152.43 acres	15,243	
		\$2,407,944

Crystal Springs System—

Dam of concrete, pipe line, etc., as itemized in report dated January 31, 1902 (\$2,836,082), with betterments made in 1902 and 1903 added.....	\$2,837,282	
Lands in reservoir site below high water line, 1,300 acres at \$1,250 per acre.....	1,625,000	
Lands in reservoir site above present high water line, 430 acres at \$625 per acre.....	268,750	
Lands in watershed, 6,973 acres at \$60 per acre.....	418,380	
Crystal Springs pumping station complete, with 24-inch suction, 3 lines of 16-inch discharge pipes, 16-inch stand pipe, buildings, stables, outhouses, and 19,690 lineal feet of flume.....	130,756	
Betterments for 1904 at cost as given by Spring Valley Water Company Crystal Springs Flume.....	741	
Total for Crystal Springs System.....		\$5,280,909
Millbrae Pumping Plant complete, including stand-pipe and connections, reservoir, suction and force pipes, flume, railroad track, buildings, etc., as appraised in 1901 with improvements 1901 to Jan. 1, 1904, added.....	271,580	
Lands at pumping station, 68.10 acres at cost.....	25,000	
		296,580
Water rights on Peninsula reservoir system, 18 million gallons per day at \$40,000 per million gallons per day.....		720,000
Betterments for 1904, at cost as given by Spring Valley Water Company, right or way at Colma.....		23,233
Total, Peninsula System.....		\$9,957,326

Alameda Creek System—

Niles dam, about 2½ miles above Niles, stone aqueduct 2,700 feet long, stone screen-tank, wooden screen and settling tank; flume 3,131 feet long, iron bridge over Alameda Creek at Niles 400 feet long; wrought iron pipe 36-inch diameter 5,897 feet long.....	108,000	
Alameda Creek main pipe line, 36-inch diameter, 138,029 feet long; 36-inch brass-faced gate at Burlingame, including boxing and trestles.....	\$1,184,078	
Betterments for 1904 at cost as given by Spring Valley Water Company, new Alameda pipe line.....	10,881	1,194,959
Buildings, 2 keepers' houses.....		2,000
For contingencies, engineering, etc., on above items, 10%....		130,496
New 54-inch wrought iron pipe and connections, Burlingame to Millbrae at cost, about.....		332,520
Submarine pipes, 2 lines of 16-inch across slough and across bay at Dunbarton Point, at cost, about.....		120,000
Two lines of 22-inch, paralleling the 16-inch, at cost, about ..		290,400
Belmont pumping station, including 3 Corliss pumping engines, Babcock and Wilcox boilers, addition to stand pipe, etc., appraisement of 1901 with betterments made in 1901, 1902 and 1903 added, at cost, about.....		284,890
Lands at Belmont pumping station, 45 acres.....		8,000
Betterments for 1904 as given by the Spring Valley Water Company, Belmont boilers.....	7,074	
Belmont pumps.....	1,762	
One-half of Newhall Tract.....	8,247	17,083
Works on Laguna Creek property near Pleasanton (see itemized statement in report of Jan. 26, 1904).....		88,719
Sunol filter beds and Sunol aqueduct, to and including screen-house at Niles (see itemized statement in report of January 26, 1904).....	727,665	
Betterments for 1904 at cost as given by the Spring Valley Water Company, Sunol aqueduct and filter beds.....	3,470	731,135
Lands and rights acquired by Suburban Water Company and transferred to Spring Valley Water Company in 1902, total area 18,161 acres at cost.....		927,588
Lands in Calaveras Valley and adjacent thereto, acquired prior to Jan. 1, 1902, estimated 2,746 acres more or less (not including the original Calaveras purchase), at cost...		167,950

WATER RATES

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Water rights and land purchases along Alameda Creek to secure the right to water, not including the \$1,000,000 paid for the Vallejo Mill and Calaveras properties in 1875, at cost.....	309,983
Calaveras purchase. This includes 2,150 acres of land and water rights, notably the Vallejo Mill property at Niles..	315,000
Rights of way, Alameda Creek System, at cost.....	43,417
Betterments for 1904, at cost as given by Spring Valley Water Company, Alameda real estate.....	641
Ravenswood Improvements.....	15,076
Total, Alameda Creek System	\$5,087,857

City Distributing System—

Lake Honda complete, including keepers' houses, stable, sewers, etc. (exclusive of land value).....	\$ 338,184
University Mound Reservoir complete, including keepers' houses, stable, etc. (exclusive of land value).....	140,401
College Hill Reservoir complete, including keeper's house, stable, etc. (exclusive of land value).....	55,400
Clay street tank complete, including grading, concrete retaining wall, concrete stairs, etc. (exclusive of land value)....	10,022
Upper Russian Hill, or Francisco street reservoir complete, including brick-lined tunnel 150 feet long (exclusive of land value).....	67,759
Clarendon Heights Tank, complete, including grading (exclusive of land value).....	12,224
Potrero Heights Reservoir complete, including keeper's house etc. (exclusive of land value).....	16,216
Add 10% for engineering and contingencies	64,020
Presidio Heights Tank (1902-3) steel, 60-feet in diameter, 35 feet high, exclusive of land value, at cost, about.....	25,500
Betterments for 1904, at cost, as given by the Spring Valley Water Company.....	2,900
Presidio Heights Tank.....	2,216
Carville Tank.....	5,215
Lombard street Reservoirs.....	1,033
10% for engineering and contingencies.....	11,364

Distributing mains and pipes, lengths in use as given by Spring Valley Water Company—

Wrought iron.	
13 -inch 850 feet.....	1,530
22 -inch 25,841 feet.....	113,700
30 -inch 12,669 feet.....	91,217
33 -inch 2,510 feet.....	20,080
37½ -inch 12,254 feet.....	112,737
44 -inch 7,213 feet.....	63,474
Cast-iron (specials included).	
3 -inch 130,969 feet.....	89,059
4 -inch 362,024 feet.....	297,272
6 -inch 571,603 feet.....	643,649
8 -inch 665,601 feet.....	989,708
10 -inch 8,489 feet.....	15,917
12 -inch 255,088 feet.....	594,507
16 -inch 125,237 feet.....	410,937
20 -inch 21,840 feet.....	100,551
22 -inch 19,183 feet.....	102,245
24 -inch 34,844 feet.....	214,995
30 -inch 4,494 feet.....	38,392
Setting Specials.....	18,000
Add 10% for engineering and contingencies.....	\$3,917,970
	391,797
	\$4,309,767

Special Structures on City Distributing System:—

2 Bernal Heights tunnels, Total length 1,344 feet at \$30.....	40,320
Support of pipes in Harrison street over Mission Creek swamp, special pipe connection work, etc.....	36,000
Islais Creek pipe trestle and extra work pipe laying.....	9,097

WATER RATES

Tunnel 508 feet long on Seventh avenue, 5 ft. 6 in. in clear carrying 30-inch pipe and 580 feet of sewer tunnel, with 650 ft. of 24-inch cast-iron pipe concreted in, all below "K" and "L" streets.....		24,320	
Gates on City Distributing System, not including setting.....		68,477	
Meters on service pipes, etc., 14,643 Spring Valley Water Works Inventory of Jan. 1, 1905.....		225,282	
Black Point Pumping Station complete, including storage tunnel, suction well, wharf, etc., (exclusive of land value)		168,000	
Clarendon Heights pumping plant, complete, (exclusive of land value).....		54,800	
		<hr/>	
Add 10% for engineering and contingent expenses.....		626,296	
		<hr/>	688,925
City Reservoir sites and lands in actual use, including Black Point pump tract, Clarendon Heights pump tract, pipe yards with building, and Islais Creek right-of-way.		575,300	
Betterments for 1904, at cost as given by Spring Valley Water Company, 36 lots in Reis tract.....	9,850		
2 lots on Reed street.....	3,900		
	<hr/>		13,750
The following items for 1904 as given by Spring Valley Water Company are chargeable but are not segregated so as to be placed to proper account:			
Lumber.....	\$2,849		
Bricks.....	2,545		
Hardware.....	1,715		
Freight.....	8,786		
Paving and grading.....	5,132		
Trestle work.....	2,363		
Sundries.....	1,500		
Engineering \$26,730 less amount already accounted for, \$14,061.....	12,669		37,559
Total City Distributing System.....			6,366,391
Office lot and building.....			750,000
Lake Merced Properties:—			
Land, including contiguous lands in San Mateo Co., the Ocean View pump tract, etc., 2,638 acres.—.....	2,030,000		
Lake Merced drainage system, dam between lakes, dam at lake outlet, outlet pipe, South Lake drainage, including tunnel to Ocean, dams, etc., (see report Jan. 31, 1902) \$225,347, together with North Lake drainage works, dam, concrete inlet canal, 30-inch wrought-iron pipe, and trestle reinforcement, etc., \$17,542, with 10 per cent. for engineering and contingencies \$24,288.....	267,177		
Lake Merced pumping plant complete, including suction from lake, wharves, booms, suction from San Andreas pipe, discharge to Pilarcitos pipe areating plant at Daly's Hill, railroad coal bunkers, etc., including 10 per cent. for engineering and contingencies.....			295,416
Betterments for 1904, at cost as given by Spring Valley Water Company:			
Gum Forest.....	40,980		
Lake Merced drainage.....	1,180		
Lake Merced ranch.....	114		
	<hr/>	42,274	
Total Lake Merced properties.....			2,634,867
Miscellaneous properties:			
Telephone lines, rights-of-way for sewer, etc.....	15,000		
Tools, horses, wagons, etc., hay and grain, cast-iron pipe, cast-iron pipe fittings, wrought-iron pipe, gates, lead, cement, asphalt, etc.....	190,000		205,000

WATER RATES

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RECAPITULATION.

Peninsula System:

Pilarcitos System.....	1,228,660
San Andreas System, including Locks Creek Aqueduct and Ocean View Pumps.....	2,407,944
Crystal Springs System.....	5,280,909
Millbrae Pumping station.....	296,580
Water rights.....	720,000
Colma right-of-way.....	23,233
Total Peninsula System.....	9,957,326

Alameda Creek System:

Alameda main pipe line, Belmont pumping station works on Laguna Creek property, Sunol Filter Beds, Sunol Aqueduct, lands, water rights, etc.....	5,087,857
City Distributing System.....	6,366,391
Office lot and building.....	750,000
Lake Merced Lands, pumping plant, drainage works, etc.....	2,634,867
Miscellaneous properties, material on land, etc.....	205,000
Total.....	25,001,441

Very respectfully,

THOS. P. WOODWARD,
City Engineer.

February 1, 1904

To the Honorable Board of Supervisors
of the City and County of San Francisco.

Sirs:—In pursuance with Resolution No. 5,358 of your Honorable Body, approved December 15, 1904, directing the Board of Public Works to prepare and file with your Honorable Body on or before February 1, 1905, "an appraisalment of the properties of the Spring Valley Water Company, actually used in furnishing the City and County of San Francisco, and the inhabitants thereof, with a pure and wholesome supply of water." The Board of Public Works herewith respectfully transmits an appraisalment, prepared by it, of the properties of said Spring Valley Water Company.

Respectfully,

BOARD OF PUBLIC WORKS,
MORRIS LEVY,
Secretary.

EXHIBIT No. 4.

COMMUNICATION FROM ASSESSORS, SUBMITTING ASSESSMENT OF PROPERTIES OF THE SPRING VALLEY WATER COMPANY FOR THE YEAR 1904, IN THE CITY AND COUNTY OF SAN FRANCISCO, AS FOLLOWS:

Real Estate.....	\$1,089,310
Improvements.....	552,730
Personal Property.....	4,215,485
Franchise.....	7,821,375
Total assessment.....	\$13,678,900

(Filed February 11, 1905).

EXHIBIT No. 5.

COMMUNICATION FROM ASSESSOR, SANTA CLARA COUNTY, SUBMITTING ASSESSMENT OF PROPERTIES OF SPRING VALLEY WATER COMPANY IN THAT COUNTY ON THE FIRST MONDAY IN MARCH, 1904 AS FOLLOWS:

Real Estate.....	\$64,410
Improvements.....	3,605
Total.....	\$68,015

(Filed February 13, 1905).

WATER RATES

EXHIBIT NO. 6.

STATEMENT OF RECEIPTS AND DISBURSEMENTS OF THE SPRING VALLEY
WATER COMPANY FOR FISCAL YEAR 1903-04

Receipts:

From water rates.....	\$2,072,379.53	
From rents and other sources.....	115,057.21	
		<u>\$2,187,436.74</u>

Disbursements:

For operating expense.....	\$566,786.98	
For coupon and other interest.....	722,224.94	
For taxes.....	324,368.70	
For dividends (10 months) 4 20-100 per cent....	581,052.36	
		<u>\$2,194,432.98</u>
Loss in Fiscal Year 1903-04.....		6,996.24

PROFIT AND LOSS STATEMENT.

Balance July 1, 1903.....	\$191,041.91
Loss, as above.....	6,996.24
	<u>184,045.67</u>
Balance June 30, 1904.....	184,045.67

SPRING VALLEY WATER COMPANY,
by CHAS. WEBB HOWARD, President,
PELHAM W. AMES, Secretary.

Subscribed and sworn to before me this 6th day of February, 1905,

W. T. HESS,
Notary Public in and
for the City and County
of San Francisco, State
of California, room
1015, Claus Spreckels
Building.

EXHIBIT NO. 7.

STATEMENT OF RECEIPTS AND DISBURSEMENTS OF SPRING VALLEY
WATER COMPANY FOR FIRST HALF OF FISCAL YEAR 1904-05.

Receipts:

From water rates.....	\$1,030,284.73	
From rents and other sources.....	39,844.26	
From taxes 1902-03 refunded.....	16,362.61	
		<u>\$1,086,491.60</u>

Disbursements:

For operating expense.....	\$262,558.49	
For coupon and other interest.....	370,203.15	
For taxes.....	334,685.74	
For dividends (3 months) 1 26-100 per cent.....	176,037.12	
		<u>\$1,143,484.50</u>
Loss—July 1 to December 31, 1904.....		\$56,992.90

PROFIT AND LOSS ACCOUNT.

Balance July 1, 1904.....	\$184,045.67
Less loss, as above.....	56,992.90
Balance December 31, 1904.....	\$127,052.77

SPRING VALLEY WATER COMPANY,
by CHAS. WEBB HOWARD, President,
PELHAM W. AMES, Secretary.

Subscribed and sworn to before me this 6th day of February, 1905,
W. T. HESS,
Notary Public in and
for the City and County
of San Francisco, State
of California, room
1015 Claus Spreckels
Building.

The report of the Committee of the Whole as above stated was adopted and the further hearing of the matter under investigation was continued until February 23, 1905, at 3 o'clock p. m., at which time the investigation continued.

INVESTIGATION CONTINUED.

The Board met on February 23, 1905, and resolved itself into a Committee of the Whole, with Supervisor A. A. D'Ancona in the chair.

REPORT OF THE COMMITTEE OF THE WHOLE.

The Committee of the Whole, by Supervisor Booth, reported as follows:

The Committee of the Whole reports progress in the matter of the water rates investigation for the year commencing July 1, 1905, having heard the testimony of Cyril Williams, Jr., Assistant Engineer; Geo. E. Booker, Chief Clerk and Pelham W. Ames, Secretary, of the Spring Valley Water Company, and asks leave to sit again on Monday, February 27, 1905, to resume the investigation.

The above report as stated was adopted and the further hearing of the matter under investigation was resumed on February 27, 1905. The Board met and resolved itself into a Committee of the Whole, with Supervisor A. A. D'Ancona in the chair.

REPORT OF THE COMMITTEE OF THE WHOLE.

The Committee of the Whole, by Supervisor Booth, reported as follows:

The Committee of the Whole reports progress in the matter of the water rates inquiry, having heard the testimony of Geo. E. Booker, Pelham W. Ames and Cyril Williams, Jr., Chief Clerk, Secretary and Assistant Engineer, respectively, of the Spring Valley Water Company.

That statements have been filed by the Spring Valley Water Company, which have been duly considered and designated exhibits as follows:

EXHIBIT NO. 8.

STATEMENT OF PERMANENT IMPROVEMENTS OF THE SPRING VALLEY
WATER COMPANY 1904.

New construction:	
Includes labor, material, pipe, castings, meters, etc., and paving two-thirds of all engineers, salaries, etc.....	\$252,726.61
Real Estate:	
Includes Gum Forest, Colma Right of Way, Ravenswood Improve- ments, Ashton Tract, 36 lots Reis Tract, one-half Newhall Tract, 2 lots Reed Street.....	\$117,522.39
New Alameda Pipe Line.....	10,880.69
Ridley Street Cut.....	10,000.00
Lombard Street Reservoirs.....	7,353.71
Belmont Boilers.....	7,073.94
Sunol Aqueduct.....	3,467.01
Calaveras Dam.....	4,134.33
Presidio Heights Tank.....	2,900.03
Carville Tank.....	2,216.37

New Belmont Pumps.....		1,836.62
Lake Merced Drainage.....		1,180.22
Meters.....		909.78
Crystal Springs Flume.....		741.03
Alameda Real Estate.....		641.00
Arroyo Valle Reservoir.....		117.50
Lake Merced Ranch.....		114.00
New Submarine Pipe.....		6.89
Filter Beds.....		3.15
		<hr/>
Pipe Storage.....	\$13,905.75	\$423,825.27
Stable Equipment.....	234.87	
		<hr/>
		14,140.62
		<hr/>
Total.....		\$437,965.89

EXHIBIT No. 9.

STATEMENT OF RECEIPTS AND DISBURSEMENTS OF SPRING VALLEY
WATER COMPANY, 1904

Receipts			
Water rates.....	\$2,070,765.38		
Rents, and other sources.....	141,358.45		
		<hr/>	\$2,212,303.83
Disbursements:			
Lake Merced Pump.....	31,756.11		
Belmont Pump.....	39,782.10		
Clarendon Heights Pump.....	18,010.78		
Ocean View Pump.....	915.45		
City Engine.....	19,898.67		
Pilarcitos Pump.....	2,984.18		
Crystal Springs Pump.....	2,014.33		
Millbrae Pump.....	5,982.94		
Crystal Springs Reservoir.....	10,266.94		
San Andres Reservoir.....	13,950.55		
Pilarcitos Reservoir.....	2,914.84		
Portola Reservoir.....	1,056.56		
City Reservoirs.....	27,915.01		
Pleasanton Wells Expense.....	5,926.23		
Filter-beds Expense.....	7,411.48		
Sunol Aqueduct Expense.....	2,957.90		
Crystal Springs Pipe Line.....	1,891.82		
San Andres Pipe Line.....	5,195.18		
Alameda Pipe Line.....	10,535.82		
Pilarcitos Pipe Line.....	25,723.59		
Lock's Creek Line.....	6,560.64		
Lobos Creek.....	1,795.45		
Main Repairs.....	52,584.45		
Legal Expense.....	24,515.10		
Meter Expense.....	35,861.08		
Office Expense.....	11,096.50		
General Expense.....	15,109.13		
Pescadero Expense.....	948.00		
City Stable.....	8,222.80		
San Mateo Stable.....	922.21		
Pipe Yard.....	3,132.24		
Land Account.....	4,453.24		
Salaries.....	50,015.00		
Bookkeeping Department.....	15,252.00		
Engineer's Department.....	14,819.64		
Inspector's Department.....	14,113.90		
Collection Account.....	25,682.50		
Telephone Account.....	4,689.42		
Bond Expense.....	673.50		
Water Rate Suit Expense.....	27,325.02	\$554,862.30	
		<hr/>	
Dividends, 9 months.....	521,889.48		
Taxes.....	365,496.64		
Coupons and Other Interest.....	730,119.26	\$1,617,505.38	\$2,172,367.68
		<hr/>	
Gain in 1904.....			\$39,936.15

EXHIBIT No. 10.

TABLE OF INCREASE OF OPERATING EXPENSES OF SPRING VALLEY WATER COMPANY FOR TWO YEARS.

Receipts:	
From Water Rates, 1902.....	\$1,914,781.41
From Water Rates, 1903.....	2,020,334.90
Increase.....	\$105,553.49
(About 5½ per cent).	
From Water Rates, 1904.....	\$2,070,765.38
Increase.....	\$50,430.48
(About 2½ per cent).	
Operating Expenses:	
In 1902.....	\$454,013.77
In 1903.....	519,441.51
Increase.....	65,427.84
(About 14½ per cent).	
In 1904.....	\$554,862.30
Increase.....	\$35,420.79
(About 6¼ per cent).	

CONSUMPTION OF WATER.

Daily average:	
1902.....	27,676,000 gallons
1903.....	31,595,000 "
Increase.....	3,919,000 "
(About 14 per cent).	
In 1904.....	33,822,000 gallons
Increase.....	2,227,000 "
(About 7 per cent).	

PELHAM W. AMES,
Secretary Spring Valley Water Company.

EXHIBIT No. 11.

DETAILS OF NEW CONSTRUCTION, SPRING VALLEY WATER COMPANY
1904.

Labor.....		62,451.40
Material:		
Pipe.....	53,691.38	
Meters.....	21,526.98	
Castings.....	16,094.11	
Lead.....	6,691.35	
Cement.....	6,154.98	
Gravel and Rock.....	3,409.03	
Lumber.....	2,848.80	
Bricks.....	2,544.80	
Iron, Steel and Hardware.....	1,715.36	
Coal.....	1,334.00	
Powder.....	1,056.00	
Oils and Paints.....	512.53	
Sewer pipe.....	215.99	
Asphalt.....	30.60	117,825.91
Discounts on Bonds.....		54,751.40
Engineers Department.....		26,730.00
Freight and Hauling.....		8,785.56
Paving and Grading.....		5,131.67
Trestle Work.....		2,363.31
Plumbing.....		370.00
Sundries.....		704.95
		<hr/>
		279,114.20

WATER RATES

	Cr.	
Service Connections.....		15,975.31
Hydrants.....		4,800.00
Lombard Street Reservoir.....		2,137.88
Sales of Iron, Brass, etc.....		2,690.79
Real Estate.....		700.00
Belmont Pump.....		75.00
Discounts on Bills.....		8.61
		26,387.59

252,726.61

PELHAM W. AMES,
Secretary Spring Valley Water Company.

EXHIBIT No. 12.

Statement of the size and cost of Meters in use December 31, 1904.

101	1"	Bee Meters @ \$ 6.00 each.....	\$ 606.00	
27		Crown.....	324.00	
11		Nash.....	88.00	\$1,018.00
<hr/>				
139				
3818	1"	Worthington @ \$11.60 each.....	44,288.80	
6137		Lambert.....	51,121.21	
3		Hersey.....	33.00	
7		Columbia.....	59.50	
1		Keystone.....		\$95,502.51
<hr/>				
9966				
15	1"	Bee @ \$13.20 each.....	198.00	
196		Lambert.....	2,352.00	
15		Crown.....	315.00	
8		Nash.....	96.00	\$2,961.00
<hr/>				
234				
47	1"	Worthington @ \$26.25 each (\$26.25).....	1,233.75	
17		Bee.....	299.20	
342		Lambert.....	5,472.00	
11		Nash.....	176.00	\$7,180.95
<hr/>				
417				
18	1 1/2"	Worthington @ \$33.75 each.....	1,607.50	
26		Bee.....	858.00	
373		Lambert.....	11,190.00	
9		Crown.....	450.00	
1		Nash.....	30.00	
3		Hersey.....	120.00	\$13,255.50
<hr/>				
430				
32	2"	Worthington @ \$37.50 each.....	1,200.00	
21		Bee.....	1,155.00	
247		Lambert.....	12,350.00	
12		Crown.....	780.00	
1		Nash.....	50.00	
9		Gem.....	378.00	
46		Hersey.....	3,109.60	19,022.60
<hr/>				
368				
26	3"	Worthington @ \$82.50 each.....	2,145.00	
1		Bee.....	93.50	
7		Lambert.....	595.00	
7		Crown.....	945.00	
1		Nash.....	95.00	
1		Gem.....	90.00	
2		Hersey.....	240.00	\$4,203.50
<hr/>				
45				

WATER RATES

18	4" Worthington @ \$258.75 each.....		4,657.50	
1	Bee	209.00	209.00	
2	Lambert	175.00	350.00	
6	Crown	250.00	1,500.00	
1	Nash	200.00	200.00	
7	Gem	160.00	1,120.00	
1	Hersey	225.00	225.00	
2	Torrent	165.00	330.00	\$8,591.50

38

\$151,735.56

Total 11.637 meters.

Average lost \$13.04.

The report above stated was adopted and the investigation further continued until February 28th, 1905, at 4 p. m.

INVESTIGATION CONCLUDED.

The Board met February 28th, 1905, at 4 o'clock p. m. and resolved itself into a Committee of the Whole with A. A. D'Ancona in the chair.

REPORT OF THE COMMITTEE OF THE WHOLE.

The Committee of the Whole, by Supervisor D'Ancona reported as follows:

The Committee of the Whole reports that it has this day heard the testimony of Cyril Williams, Jr., Assistant Engineer Spring Valley Water Company.

That various matters have been filed by the Spring Valley Water Company which have been duly considered and designated Exhibits as follows:

EXHIBIT NO. 13.

LOCATION OF PIPE LAID IN SAN FRANCISCO IN 1904 BY SPRING VALLEY WATER COMPANY.

Size	Length	Location
3-inch	10 feet	East street, north of Broadway wharf.
"	27 "	Mission street wharf.
"	85 "	Ferry slip "A."
"	14 "	Bryant street wharf.
"	6 "	Central Basin, freight slip for S. P. R. R.
<hr/>		
Total:	142 "	"
4-inch	40 "	Pacific avenue at Presidio Heights tank.
"	75 "	East South Mission street wharf.
"	5 "	East Broadway wharf.
"	270 "	41st avenue, between H and I.
"	128 "	South of H street, into S. V. W. Co. lot (Oceanside lot).
"	256 "	Outlet to Oceanside tank.
"	1,320 "	47th avenue, between H and J.
"	642 "	Beaver between Noe and Castro.
"	1,645 "	Ocean avenue between Harrold avenue and S. P. R. R.
"	867 "	Ocean avenue between S. P. R. R. and San Jose avenue.
"	25 "	Ocean avenue and San Jose avenue.
"	625 "	Athens between Persia and Brazil avenue.
"	275 "	Persia between Athens and Vienna.
"	670 "	Vienna between Persia and Russia.
"	690 "	Russia between Vienna and Madrid.
"	71 "	Mission, crossing Onandaga.
"	139 "	Mission between Onandaga and Russia.
"	24 "	Russia, crossing Mission on east side.
"	127 "	Russia avenue, crossing Madrid, north side.
"	18 "	Russia avenue, crossing Madrid, south side.
"	23 "	Madrid, crossing Russia.
"	550 "	Persia between Vienna and Edinburgh.
"	12 "	Edinburgh, crossing Persia.
"	624 "	Naples between Persia and Brazil.
"	230 "	Wetmore Place between Washington and Clay.
"	12 "	Ferry Slip No. 3.
"	202 "	Fourteenth between Devisadero and Alpine.
"	700 "	Central Basin freight slip, S. P. R. R.
"	320 "	Illinois north of 16th, S. P. R. R. wharf.
"	306 "	On 5th avenue, near Presidio wall.
"	22 "	Market street wharf.
"	184 "	H between 4th and 5th avenues.
"	15 "	H between 4th and 5th avenues.

Total: 11,112 "

Size	Length	
8-inch	280 feet	Frederick, west of Willard.
"	20 "	Scott and Ellis.
"	16 "	Waller and Central avenue.
"	174 "	Central avenue between Waller and Buena Vista.
"	455 "	Haight between Masonic and Ashbury.
"	290 "	Schrader between Carl and Parnassus avenue.
"	385 "	Duncan, Tiffany and San Jose.
"	309 "	Belvedere, Haight and Waller.
"	348 "	Willard, between Carl and Parnassus.
"	22 "	Carl, crossing Willard.
"	340 "	Gough between Lombard and Greenwich.
"	510 feet	Greenwich between Gough and Franklin.
"	50 "	Franklin, crossing Greenwich.
"	632 "	8th between K and J.
"	50 "	Haight, crossing Scott.
"	278 "	4th and H to Hugo.
"	347 "	Jackson between Lyon and Central.
"	12 "	Chenery, crossing Diamond.
"	22 "	Chenery, north of Natick.
"	7 "	Chenery and Fairmount.
"	247 "	Hugo between 4th and 3d.
"	309 "	C between 8th and 9th.
"	62 "	8th avenue, crossing C.
"	610 "	2d avenue between Pt. Lobos and "A" street
"	62 "	2d avenue, crossing A.
"	260 "	A between 2d and 1st avenues.
"	570 "	45th avenue between Cliff and Clement.
"	133 "	3d, north of I street.
"	412 "	Green between Steiner and Pierce.
"	51 "	Hugo, crossing 3d avenue.
"	500 "	3d between H and I.
"	682 "	4th between B and C.
"	312 "	C between 4th and 3d.
"	10 "	Vermont, crossing Army.
"	338 "	Second avenue between Hugo and I.
"	282 "	Hugo between 3d and 2d avenue.
"	326 "	Florida between 26th and Army.
"	1,180 "	Railroad avenue between 18th and Williams.
"	40 "	Steiner, crossing California.
"	269 "	Hugo between 2d and 1st.
"	285 "	2d avenue between H and Hugo.
"	25 "	Steiner, crossing Clay.
"	324 "	Franklin between Greenwich and Filbert.
"	7 "	Filbert, crossing Franklin.
"	383 "	Greenwich between Franklin and Van Ness.
"	24 "	Steiner, crossing Pacific.
"	319 "	25th between San Bruno avenue and Vermont.
"	305 "	14th between Sanchez and Walter.
"	40 "	Pine, crossing Steiner.
"	610 "	Devisadero between Duboce avenue and 14th.
"	226 "	14th street between Castro and Devisadero.
"	272 "	Vallejo between Front and Battery.
"	145 "	Golden Gate avenue east of Masonic.
"	100 "	A street, west of 1st avenue.
"	758 "	Vallejo between Baker and Devisadero.
"	790 "	Railroad avenue between 15th and 18th avenue south.
"	1,982 "	Railroad avenue between 29th avenue south and Williams avenue south.
"	1,262 "	Railroad avenue between 29th and Salinas avenue south.
"	962 "	Missouri between Mariposa and 19th streets.
"	346 "	Cole between Hayes and Grove.
"	350 "	Schrader between Grove and Fulton.
"	52 "	Fulton and Schrader.
"	403 "	5th avenue between Lake and Presidio wall.
"	5 "	17th street northeast of Kentucky.
"	98 "	Hyde near Lombard street reservoir.
"	40 "	Hyde, crossing Greenwich.
"	1,813 "	18th avenue south between Railroad avenue and J street.
"	636 "	Q street between 15th and 17th avenue south.
"	506 "	Hayes between Cole and Clayton.
"	70 "	Clayton, crossing Hayes.
"	429 "	Hayes between Scott and Pierce.
"	236 "	Lake between 2d and 3d avenue.
"	390 "	Greenwich between Larkin and Hyde.

WATER RATES

485

Size	Length	
8 inch	190	Greenwich west of Larkin.
"	38	Greenwich west of Larkin.
"	345	Lake between 5th avenue and 6th avenue.
"	21	Steiner, crossing McAllister.
"	18	Pierce, crossing McAllister.
"	16	McAllister, crossing Fillmore.
Total:	26,023	"
6-inch	22 feet	Post, east of Scott.
"	29	Geary and Scott.
"	127	Near Ocean Side tank.
"	107	9th south of Market.
"	20	Steiner, near California.
"	55	Grove, crossing Schrader.
"	49	Vallejo, crossing Pierce.
Total:	409	"
12-inch	35 feet	Ellis, crossing Scott.
"	51	O'Farrell, crossing Scott.
"	65	Pierce, crossing Post.
"	66	Post, crossing Steiner.
"	37	Sutter, crossing Steiner.
"	37	Page, crossing Scott.
"	268	I between 4th and 3d.
"	1,178	Chenery between Diamond and Roanoke.
"	1,793	Chenery between Roanoke and Fairmount.
"	322	I between 3d and 2d.
"	396	Grove between Scott and Devisadero.
"	1,303	Army between San Bruno and Carolina.
"	35	I crossing 2d.
"	840	Army between Carolina and Connecticut.
"	30	Sacramento, crossing Steiner.
"	239	I between 2d and 1st.
"	412	Taylor between Bay and North Point.
"	2,008	Broderick between Lombard and Jefferson.
"	403	Hyde between Francisco and Chestnut.
"	24	Hyde between Francisco and Chestnut.
"	665	Hyde between Chestnut and Greenwich.
"	49	Francisco, near Hyde.
"	29	Greenwich, crossing Hyde.
"	10	On Greenwich and Hyde.
"	71	On Greenwich and Hyde.
"	54	On Greenwich and Hyde.
"	126	Greenwich near Hyde.
"	23	California and Mason.
"	333	Mason between California and Sacramento.
"	2,491	Army between Connecticut and Kentucky.
Total:	13,393	"
16-inch	17 feet	Scott, crossing Post.
"	45	Geary, west of Scott.
"	30	Bush, crossing Steiner.
"	9	Polk, near North Point.
"	69	Clay, crossing Steiner.
"	491	Pacific avenue between Steiner and Fillmore.
"	431	Clay between Steiner and Fillmore.
"	29	Fillmore, crossing Clay.
"	26	Fillmore, south of Clay.
"	24	Greenwich and Hyde.
"	50	Hyde, crossing Greenwich.
"	20	Hyde near Greenwich.
"	1,431	McAllister between Fillmore and Scott.
Total:	2,672	"
24-inch	637 feet	Scott, O'Farrell to Post.
"	962	Post between Scott and Steiner.
"	388	Steiner between Post and Sutter.
"	338	Steiner between Sutter and Bush.
"	631	Scott between Oak and Haight.
"	1,755	Steiner between Bush and Washington.
"	562	Steiner between Washington and Pacific.
Total:	5,273	"

WATER RATES

EXHIBIT NO. 14.

TAXES 1904-5 ON LANDS OF SPRING VALLEY WATER COMPANY.

	First Instal.	Sec. Instal.
San Francisco—		
Lands in use.....	\$211,380.78	\$12,170.74
Lands not in use.....	1,367.53	1,367.53
San Mateo—		
Lands in use.....	37,315.70	16,319.85
Lands not in use.....	1,425.85	1,425.85
Alameda—		
Lands in use.....	73,919.91	3,369.04
Lands not in use.....	209.30	209.30
Santa Clara—		
Lands in use.....	1,134.34	
Lands not in use.....	28.73	
Total—		
Lands in use.....	323,750.73	31,859.63
Lands not in use.....	3,031.41	3,002.68
Total taxes on lands in use.....		\$355,610.36
Total taxes on lands not in use.....		6,034.09

ESTIMATE OF TAXES 1905-06.

San Francisco—	
Lands in use.....	257,000
Lands not in use.....	3,200
San Mateo—	
Lands in use.....	52,200
Lands not in use.....	2,850
Alameda—	
Lands in use.....	81,300
Lands not in use.....	2,300
Santa Clara—	
Lands in use.....	1,165
Lands not in use.....	30
Total.....	400,045
Total estimate Taxes—	
On property in use.....	\$391,665
On property not in use.....	8,380

EXHIBIT NO. 15.

AFFIDAVIT OF H. SCHUSSLER AS TO VALUE OF PROPERTY OF SPRING VALLEY WATER COMPANY.

In the matter before the Honorable Board of Supervisors of the City and County of San Francisco, State of California, fixing the water rates in the month of February, 1905, for the fiscal year 1905-06.

State of California,
City and County of San Francisco.—ss.

Herman Schussler, being first duly sworn, deposes and says that he is and for more than twenty years last past has been the chief engineer of the Spring Valley Water Company, and its predecessor the Spring Valley Water Works; that he considers himself competent to value the properties of the Spring Valley Water Company, and that, based upon his experience, judgment, knowledge and belief, he places the following value on the combined properties of the Spring Valley Water Company on July 1, 1904, and for the constructed works, a value equal to present cost of reconstruction. to-wit:

Pilarcitos system.....	\$1,148,000
San Andres system.....	1,547,000
Crystal Springs system.....	3,811,000
Locks Creek aqueduct.....	419,000
Alameda Creek system.....	3,382,000

Lake Merced drainage system.....	343,000
Pumping plants.....	1,651,000
City reservoir.....	947,000
City pipe system.....	6,069,000
Meters connected with city pipe system.....	150,000
Stock on hand in San Francisco County and San Mateo County yards....	270,000
Lands and properties outside of the headwaters properties, inclusive of Lake Merced property, office property and building, and properties of all city reservoirs and pumps and properties, also of Belmont and Millbrae pumping stations, and rights of way on main conduit line..	<u>6,694,000</u>
Total of above estimates of cost of construction of works of the Spring Valley Water Company, of the value of rights of way, the value of the Lake Merced property, of all city property and the properties of the Belmont and Millbrae pumping plants	26,431,000
Add to this my estimate of the value of all the other properties of the Spring Valley Water Company combined into one unit; being the lands and rights, such as reservoir sites, water sheds, artesian lands, filter beds and water rights to all of its streams in San Mateo, Alameda and Santa Clara Counties; also including the water rights to the outflow of Lake Merced.....	<u>29,669,000</u>
Total estimate of value of all the properties and works of the Spring Valley Water Company.....	56,100,000
Deducting from this \$25,000 for works not now in use in Lake Merced drainage system we have \$56,075,000; or in round figures, \$56,000,000	
Deducting from the above the estimated value of properties not now in use, to-wit:	
The Arroyo Valle Reservoir site and watershed; the Locks Creek watershed and rights; the Industrial School reservoir tract; the Market street reservoir and Central pumping tract, of a combined estimated value of about \$4,500,000.	
We have the total estimated value of all the properties and works of Spring Valley Water Company.....	56,000,000
Less the estimated values of properties not now in use.....	4,500,000
Estimated value of properties and works combined now actively in use in supplying San Francisco with water.....	<u>51,500,000</u>

And deponent further says that since July 1st, 1904, pipe has been laid in the City and County of San Francisco of an estimated value complete in the ground of fully \$55,000, and that the estimated value of the stock now on hand is at this date about \$13,000 less than as stated in said above valuation or tabulation, as of date of July 1, 1904.

H. SCHUSSLER,

Chief Engineer S. V. W. Co.

Subscribed and sworn to before me this 27th day of February, 1905.

W. T. HESS,

Notary Public in and for the City and County of San Francisco, State of California.

EXHIBIT NO. 16.

INCOME OF SPRING VALLEY WATER COMPANY FOR THE FIRST HALF OF THE YEAR 1904—JAN. 1, 1904 to JUNE 30, 1904.

From private fixed rates.....	\$532,429.70
From private meter rates.....	389,081.03
From shipping.....	48,901.02
From city.....	<u>70,068.90</u>
	\$1,040,480.65
Other sources.....	85,331.53
	<u>\$1,125,812.18</u>

WATER RATES

INCOME FROM SECOND HALF OF THE YEAR 1904—JULY 1, 1904 TO
DECEMBER 31, 1904.

From private fixed rates.....	\$540,704.10	
From private meter rates.....	417,667.68	
Shipping.....	48,877.60	
City.....	23,035.35	
	<hr/>	
	\$1,030,284.73	
Taxes refunded.....	16,362.61	
Other sources.....	39,844.26	\$1,086,491.60
	<hr/>	
Income for calendar year 1904.....		\$2,212,303.78

ESTIMATE FOR THE FIRST HALF OF THE YEAR 1905—JAN. 1, 1905 TO
JUNE 30, 1905.

From private fixed rates.....	\$550,000.00	
From private meter rates.....	417,000.00	
Shipping.....	50,000.00	
City.....	83,000.00	
	<hr/>	
	\$1,100,000.00	
Other sources.....	\$ 24,000.00	\$1,124,000.00
	<hr/>	
Estimated income 1904-1905.....		\$2,210,491.60

In estimating the income from the city bills it is with the understanding that we receive at least the amount of the budget appropriation for the fiscal year 1904-1905.

The Committee recommends that the hearing be now closed and that the Water Rates Committee be instructed to prepare a Bill fixing the rates and to report the same to the Board at 10 o'clock this evening.

The report was adopted and the Board adjourned to meet at 8 o'clock p. m. of the same day, at which time the Board again met.

REPORT OF COMMITTEE ON WATER RATES.

To the Honorable the Board of Supervisors
of the City and County of San Francisco.

Gentlemen—Your Committee on Water Rates begs leave to make the following report:

In 1900, the first year in which the older members of this Board took part in the establishment of rates, the Ordinance adopted made a horizontal reduction in the rates of private consumers of ten (10) per cent, a net reduction of \$154,000; in 1901 the Ordinance reduced the hydrant rate from \$5 to \$2, a net reduction of \$132,000 from the amount paid by the municipality; in 1902 the Ordinance recommended by his Honor the Mayor and adopted by the Board made no reduction; in 1903 the Ordinance reduced the rate to private consumers 7 per cent, or a net reduction of \$127,570; in 1904 the hydrant rate was reduced by \$47,000.

Your Committee reminds your Honorable Body that in calculating the receipts under the prevailing order 7 per cent must be deducted, as the company is collecting 7 per cent more than allowed by the Ordinance by reason of an injunction issued by the United States Court. Under the law the full amount of the taxes paid on property in use must be allowed. It is estimated that the taxes for the year 1905-6 will exceed the amount estimated for 1904-5 by about \$45,000.

As a basis of the calculation of the rates to be fixed for 1905-6, your committee has taken the appraisal of last year, adding thereto the reasonable value of the extensions added to the plant since the last investigation and actually in use. Your Committee deems that the present Ordinance reducing the rates for private consumers 7 per cent below the rate now being collected by the Company will yield a reasonable interest upon the value of the plant actually used in furnishing the municipality and its inhabitants with water, the full amount of the taxes and a reasonable allowance for operating expenses.

The increase in revenue during 1905-1906 will be approximately balanced by the increase in taxes, the interest upon the additions to the plant above mentioned, and a reasonable increase in allowance for operating expenses.

Your Committee recommends that the order adopted by your Honorable Body for the fiscal year 1904-5 be re-enacted for the fiscal year 1905-6.

A. A. D'ANCONA,

CHAS. BOXTON.

Read by Clerk and ordered filed.

STATEMENT.

Supervisor Comte stated that the above was a Majority Report, he having declined to sign it for the same reasons given by him last year.

INTRODUCTION AND PASSAGE OF BILL.

Thereupon Supervisor D'Ancona introduced Bill No. 1638, Ordinance No. —, entitled "Regulating the monthly rates of compensation to be collected by any person, company or corporation engaged in the business of supplying water to the inhabitants of the City and County of San Francisco, for family uses, for private purposes, for municipal uses and all public purposes of said City and County for the year commencing July 1, 1905, and ending June 30, 1906," which was:

On his motion, passed for printing by the following vote:

Ayes—Supervisors Alpers, Bent, Booth, Boxton, Brandenstein, Braunhart, Connor, D'Ancona, Eggers, Gallagher, Hocks, Lunstedt, McClellan, Payot, Rea, Rock, Sanderson—17.

No—Supervisor Comte—1.

FINAL PASSAGE AND APPROVAL.

Thereafter, the bill having been duly published as required by law, the ordinance was regularly passed at a regular meeting of the Board of Supervisors on March 13, 1905, and was approved by the Mayor on March 14, 1905. The ordinance is as follows:

ORDINANCE No. 1433.

Regulating the Monthly Rates of compensation to be collected by any person, company or corporation engaged in the business of supplying water to the inhabitants of the City and County of San Francisco for family uses, for private purposes, for municipal uses and all public purposes of said City and County for the year commencing July 1, 1905, and ending June 30, 1906.

Be it ordained by the people of the City and County of San Francisco, as follows:

That the monthly rates of compensation for supplying water for the year commencing July 1, 1905, and ending June 30, 1906, shall be as follows:

GENERAL RATES.

Section 1. For buildings occupied by a single family, covering a ground surface of (not including porches):

SQUARE FEET	One Story	Two Stories	Three Stories	Four Stories	Five Stories
0 to 400	\$0 20	\$0 25	\$0 34	\$0 28	\$0 42
400 to 500	25	34	38	42	50
500 to 600	34	38	42	50	59
600 to 700	38	42	50	59	63
700 to 800	42	50	59	63	67
800 to 900	50	59	63	67	71
900 to 1,000	59	63	67	71	80
1,000 to 1,200	63	67	71	80	84
1,200 to 1,400	67	71	80	84	87
1,400 to 1,600	71	80	84	87	92
1,600 to 1,800	80	84	87	92	96
1,800 to 2,000	84	87	92	96	1 00

The foregoing rates also apply to public buildings. No single rate less than twenty (20) cents.

For all houses one story in height, covering a greater area than two thousand square feet there shall be added nine (9) cents for each additional two hundred square feet or fraction thereof, and the further sum of eight (8) cents for each additional story.

ADDITIONAL FAMILIES.

Where a house or building is occupied by more than one family the general rate for each additional family shall be three-quarters ($\frac{3}{4}$) of the foregoing rates, except:

First—Where a house or building is divided into flats, each flat having a separate entrance and occupied by a separate family, the general rate charged shall be the same for each flat as for a single house of like dimensions.

Second—Where two or more families occupy the same floor, the general rates for each family on such floor shall be the rate for the floor surface occupied by such family (the same as for a single one-story house) according to the foregoing table.

Note—The general rate includes water for general household purposes, but does not include any of the following specified rates:

SPECIAL RATES—BATHING TUBS.

Section 2. Bathing tubs in private houses, each tub \$0.30.

In public houses, boarding houses, lodging houses, hotels and bathing establishments where meters are not used, each tub \$0.42.

FOR HORSES AND COWS.

Section 3. For each horse, \$0.17; for each cow, \$0.08.

BOARDING AND LODGING HOUSES, ETC.

Section 4. Boarding and lodging houses, not including water for baths, water closets and urinals, or for water without the houses, shall be charged for each boarder and lodger within the same in addition to the rates for private families, \$0.07.

IRRIGATION, GARDENS, ETC.

Section 5. Irrigation for gardens and grounds, one-half ($\frac{1}{2}$) of a cent per square yard; no monthly charges to be less than fourteen (14) cents.

WATER CLOSETS.

Section 6.	
For each valve closet for use of public building.....	\$0 42
For each valve closet for use of private dwelling.....	20
Privy vaults (connected with sewer)—	
For use of public buildings, each seat.....	0 38
For use of private dwelling, each seat.....	20
All drain closets to be charged at the same rate as privy vaults.	

URINALS AND STATIONARY WASHSTANDS.

Section 7—	
For use of public buildings, each.....	\$0 08
For use of private dwellings, each.....	05

BUILDING PURPOSES.

Section 8—Water furnished for building purposes—	
Each barrel of lime or cement.....	\$0 13
Each thousand of brick.....	08

STORES, BANKS, SALOONS, HOTELS, ETC.

Stores, banks, bakeries, offices, warehouses, saloons, groceries, eating houses, barber shops, butcher shops, bookbinderies, blacksmith shops, confectioners, hotels, lodging houses, boarding houses, churches, halls, laundries, photograph galleries, printing offices, steam engines, greenhouses, markets, market stalls, horse troughs, soda fountains and other places of business, each to be charged according to the estimated quantity used, from seventy-five (75) cents to five and 02-100 (\$5.02) dollars, or by meter at meter rates.

FIRE PIPES.

Section 9. Meters shall be applied to all pipes used specially for fire protection, and monthly bills shall be charged for the same at regular meter rates, provided, however, that the monthly bill shall not be less than fifty (50) cents for each one-half ($\frac{1}{2}$) inch of diameter of pipe used.

METER RATES.

Section 10. Water furnished for any and all purposes not embraced in the above shall be supplied by meter at the following rates:

The first 2000 cubic feet used (between 0 and 2000 cubic feet) shall be charged for at the rate of twenty-three (23) cents per 100 cubic feet.

The next 2000 cubic feet used (between 2000 and 4000 cubic feet) shall be charged for at the rate of twenty-two (22) cents per 100 cubic feet.

The next 2000 cubic feet used (between 4000 and 6000 cubic feet) shall be charged for at the rate of twenty (20) cents per 100 cubic feet.

The next 2000 cubic feet used (between 6000 and 8000 cubic feet) shall be charged for at the rate of twenty (20) cents per cubic 100 feet.

The next 2000 cubic feet used (between 8,000 and 10,000 cubic feet) shall be charged for at the rate of nineteen (19) cents per 100 cubic feet.

The next 5,000 cubic feet used (between 10,000 and 15,000 cubic feet) shall be charged for at the rate of eighteen (18) cents per 100 cubic feet.

The next 5,000 cubic feet used (between 15,000 and 20,000 cubic feet) shall be charged for at the rate of seventeen (17) cents per 100 cubic feet.

The next 5,000 cubic feet used (between 20,000 and 25,000 cubic feet) shall be charged for at the rate of sixteen (16) cents per 100 cubic feet.

The next 5,000 cubic feet used (between 25,000 and 30,000 cubic feet) shall be charged for at the rate of fifteen (15) cents per 100 cubic feet.

The next 10,000 cubic feet used (between 30,000 and 40,000 cubic feet) shall be charged for at the rate of fourteen (14) cents per 100 cubic feet.

The next 10,000 cubic feet used (between 40,000 and 50,000 cubic feet) shall be charged for at the rate of fourteen (14) cents per 100 cubic feet.

The next 10,000 cubic feet used (between 50,000 and 60,000 cubic feet) shall be charged for at the rate of thirteen (13) cents per 100 cubic feet.

The next 10,000 cubic feet used (between 60,000 and 70,000 cubic feet) shall be charged for at the rate of twelve (12) cents per 100 cubic feet.

All water used in excess of 70,000 cubic feet per month to be charged for at the rate of eleven (11) cents per 100 cubic feet.

No monthly meter bill to be less than one and 67-100 (\$1.67) dollars, except as hereafter provided:

Upon application of any ratepayer, the Board of Supervisors shall reserve the right, upon a proper showing of cause, to require the company to put in a meter and charge meter rates for any consumer of water, on such conditions as the Board may impose as to the rental when meter is not actually used.

METER RATES FOR SHIPPING.

Water shall be furnished and delivered by meter measurement to shipping lying alongside of the bulkhead or any of the wharves on the water front where water pipes or mains are laid, between the hours of 6 o'clock a. m. and 6 o'clock p. m., daily, upon application being made therefor at the following rates; \$1.50 per 1000 gallons, the minimum charge for each separate delivery to be fifty (50) cents.

No water boat furnishing and supplying water to shipping lying at anchor within the limits of the wharves of the city and county of San Francisco shall charge a rate to exceed three dollars (\$3.00) per 1000 gallons.

HYDRANT RATES

Section 11. The rates or compensation to be collected for water supplied by and through hydrants to the City and County of San Francisco shall be one dollar (\$1.00) per month for each hydrant for fire purposes and flushing of sewers.

PREVENTION OF WASTE.

Section 12. Prevention of waste or excessive use.—In no case where the fixed rates above provided, other than meter rates, are applicable shall any charge for water be made by meter rates, it being the purpose of this Ordinance to provide for all dwelling houses a fixed monthly rate, which shall not be increased by the person, company or corporation supplying water.

Provided, however, that for the purpose of discovering and repressing waste or excessive use, all persons, companies or corporations shall have the right in all cases

to apply and maintain meters to measure the water used or consumed, and to charge and collect for waste or excessive use under the condition and to the extent hereafter provided in this section and not otherwise.

No consumer shall be deemed guilty of waste or excessive use unless the water used or consumed upon his premises in any month shall exceed by fifty (50) per cent the number of cubic feet which at regular meter rates amounts to his rated bill, in which case such excess shall be deemed waste or excessive use.

Immediately after the discovery of any waste or excessive use the consumer shall be notified thereof by the person, company or corporation supplying water, by notice mailed to his address, or to the agent or person to whom his water bills are presented for collection.

After such notice the consumer may be charged and there may be collected from him for any waste or excessive use thereafter occurring upon his premises, at regular meter rates, but such charge or collection shall not exceed for the first month the sum of two dollars (\$2.00) for the second month, the sum of four dollars (4.00) or for any following month the sum of five dollars.

BOARD OF PUBLIC WORKS TO EXAMINE COMPLAINTS, ETC.

It shall be the duty of the Board of Public Works, by its Gas, Water and Electrical Inspector of this city and county to inquire into all cases of complaints by water consumers, as to charges made against them for waste or excessive use under the foregoing provisions of this section and to adjust such charges as follows:

Any water consumer against whom a water bill is presented containing a charge for waste or excessive use of water, may within five days after such bill is presented to him (provided that he first pay the fixed rate charged on such bill, exclusive of the charge made for said alleged waste or excessive use) make complaint to said Inspector that such charge is incorrect, whereupon the said Inspector shall promptly inspect the premises of the consumer so complaining and cause a test to be made of the water meter upon said premises, and from such inspection and test and subsequent inspection and test as said Inspector may see fit and proper to make, shall determine as near as can be the amount of water used, consumed or wasted upon said premises during the period covered by said bill. As soon as such determination is made and within twenty (20) days after the said complaint is made, said Inspector shall make a certificate stating amount of water so determined to have been used, consumed or wasted, and showing the true and correct amount, if anything which may be charged against and collected from said consumer under the foregoing provisions of this section for waste or excessive use, and shall immediately transmit such certificate to the person, company or corporation supplying water, and also a copy thereof by mail to the water consumer.

The said certificate shall be conclusive between the water consumer and said person, company or corporation as to the amount, if anything, which said person, company or corporation shall be entitled to collect from the consumer for waste or excessive use of water during the period covered by the bill of which complaint is made; provided, however, that if either the consumer or the water company is dissatisfied with the certificate of the Water Inspector appeal may be taken within five (5) days to the Committee on Water and Water Supply of the Board of Supervisors, which shall within five days after such appeal hear and finally determine the matter in dispute.

The said Inspector shall keep in his office a proper record or records, showing the date of each complaint made to him, the name of the consumer complaining, the location of his premises and stating briefly the inspection made by him of the premises and the tests applied to the meter, the time or times of such inspection and tests and the results thereof, with the reading of the meter at each test or inspection and all other material facts connected therewith. Such records so kept to be open for public examination in his office.

RATES—WHEN PAYABLE.

Section 13. All water rates, except meter rates and city and county rates, are due and payable monthly in advance.

Meter and city and county rates are due and payable at the end of each month, and upon meter rates a deposit not exceeding three-fourths ($\frac{3}{4}$) of the value of the estimated quantity of water to be consumed may be required.

NOTICE OF DISCONTINUANCE.

Section 14. Any consumer may at any time, upon payment of accrued rates, notify the company in writing to cut off or discontinue the water supply upon his premises, after which no charge shall be made for water for said premises until the use of water is resumed.

MAXIMUM RATES FIXED.

Section 15. This Ordinance fixes the maximum beyond which no person, company or corporation shall be permitted to charge for water supplied.

Section 16. This Ordinance shall take effect and be in force from and after July 1, 1905.

In Board of Supervisors, San Francisco, March 13, 1905.

After having been published five successive days, according to law, taken up and passed by the following vote:

Ayes—Supervisors Alpers, Bent, Booth, Boxton, Brandenstein, Braunhart, Connor, D'Ancona, Eggers, Gallagher, Hocks, Lunstedt, Payot, Rea, Sanderson.

No—Supervisor Comte.

Absent—Supervisors McClellan, Rock.

CHAS. W. FAY, Clerk.

Approved, San Francisco, March 14, 1905.

E. E. SCHMITZ,

Mayor and ex-officio President of the Board of Supervisors.

Water Rates Litigation

WATER RATES LITIGATION ON ORDINANCE FIXING AND ESTABLISHING WATER RATES FOR THE YEAR COMMENCING JULY 1, 1903, AND ENDING JUNE 30, 1904.

CONTINUATION FROM MUNICIPAL REPORTS OF SAN FRANCISCO, 1903-1904, (PAGES 610-612) OF THE HISTORY OF THE CAUSE.

SPRING VALLEY WATER WORKS VS. CITY AND COUNTY OF SAN FRANCISCO.

No. 13,395. United States Circuit Court.

The taking of testimony in the above case has progressed during the year. For particulars see report of City Attorney, herein published.

WATER RATES LITIGATION ON ORDINANCE FIXING AND ESTABLISHING WATER RATES FOR THE YEAR COMMENCING JULY 1, 1904, AND ENDING JUNE 30, 1905.

United States Circuit Court.

SPRING VALLEY WATER WORKS VS. CITY AND COUNTY OF SAN FRANCISCO.

No. 13,598.

No proceedings have been had in the above case during the past year, other than formal stipulations extending time for the taking of testimony.

WATER RATES LITIGATION ON ORDINANCE FIXING AND ESTABLISHING WATER RATES FOR THE YEAR COMMENCING JULY 1, 1905, AND ENDING JUNE 30, 1906.

United States Circuit Court.

SPRING VALLEY WATER WORKS VS. CITY AND COUNTY OF SAN FRANCISCO, ET ALS.

No. 13,756.

Action for injunction to restrain defendants from enforcing the provisions of Bill No. —, Ordinance No. —.
1905. May 3. Subpoena and copy of complaint received.
May 8. Order to show cause issued.
May 22. Ordered that application for injunction pendente lite be granted.
June 5. Appearance filed in U. S. Circuit Court.

INJUNCTION PENDENTE LITE.

In the Circuit Court of the United States, Ninth Judicial Circuit, Northern District of California. In Equity.

Spring Valley Water Company, a corporation, Complainant, vs. The City and County of San Francisco (a municipal corporation), the Board of Supervisors of the City and County of San Francisco, and James P. Booth, Charles Boxton, Henry U. Brandenstein, Samuel Braunhart, A. Comte, Jr., John Connor, James L. Gallagher, A. A. D'Ancona, W. W. Sanderson, Oscar Hocks, George Alpers, Fred N. Bent, Frederick Eggers, Theodore Lunstedt, L. A. Rea, George B. McClellan, Henry Payot and E. R. Rock, members of and constituting said Board of Supervisors, defendants.

No. 13,756.

This cause coming on to be heard, upon the order requiring the defendant to show cause why an injunction, pendente lite, should not be granted as prayed for in the bill of complaint herein, the complainant and the defendants being represented by their solicitors and counsel, evidence having been introduced and counsel having been heard, and the Court having duly considered the same:

It is ordered that, during the pendency of this action and until the final decree herein, or until the further order of the Court in the premises, the defendants, and each of them, and all consumers of water from the complainant, and each of them, their agents, servants and attorneys, and all persons acting under, or by authority or control of each, any and all of them, be and they are hereby restrained and enjoined from bringing or causing to be brought any suit or suits, action or actions, against the complainants, in law or in equity, to enforce the ordinance set forth in the complainant's bill of complaint as "Exhibit A," and designated "Ordinance No. 1433," purporting to have been adopted by the said Board of Supervisors on March 7th, 1905, or any suit or suits, or action or actions against the said complainant for the forfeiture of complainant's franchise, works or property, or for any other purpose or purposes, on account of complainant's failure or refusal to conform to the rates purported to be prescribed by the said ordinance, and from in any manner or way attempting to enforce, as against the complainant, the said ordinance, and from in any way demanding of the complainant to be supplied with water by complainant at the rates or under the terms of said ordinance.

It is further ordered, that on or before the 19th day of June, 1905, the complainant file an undertaking herein, with two sufficient sureties (or any Surety Company approved by the Clerk of this Court as a single surety), in favor of and for the benefit of the defendants, and also for the benefit of any person or persons and all persons who may be injured by reason of this order, in the sum of Two Hundred Thousand (\$200,000.00) Dollars, conditioned that the complainant will pay to the defendants, or any of them, and to any person or to all persons who may be injured by reason of this order, any and all damages which they or any of them may sustain in the premises, if, upon the entry of a final decree in this suit upon the merits, the said ordinance should be sustained, or if it should be determined and adjudged that this order has been or is improperly issued, said undertaking to be approved by the Clerk of this Court.

It is further ordered, that a copy of this order, certified under the seal of the Court and the hand of the Clerk of this Court, be served upon the defendants.

Wm. W. MORROW, Judge.

Dated May 22d, 1905.

Endorsed: Filed and entered May 22, 1905.

SOUTHARD HOFFMAN, Clerk.

By W. B. BEAIZLEY, Deputy Clerk.

UNITED STATES OF AMERICA,

Northern District of California,
City and County of San Francisco—ss.:

I, Southard Hoffman, Clerk of the Circuit Court of the United States of America, of the Ninth Judicial Circuit, in and for the Northern District of California, do hereby certify the foregoing to be a full, true and correct copy of the original order granting injunction pendente lite, signed, filed and entered May 22, 1905, in the therein entitled cause, No. 12,756, as the same remains of record and on file in the office of the Clerk of said Court.

In witness whereof, I have hereunto set my hand and affixed the seal of said Circuit Court this 26th day of May, A. D. 1905.

SOUTHARD HOFFMAN,

Clerk of United States Circuit Court, Northern District of California.

By W. B. BEAIZLEY,

Deputy Clerk.

San Francisco, Cal., January 6, 1906.

Hon. Percy V. Long, City and County Attorney,
San Francisco, Cal.

Dear Sir—I have the honor to submit the following report relative to the gathering and presentation of evidence on behalf of the City of San Francisco, respondent in the suit of the Spring Valley Water Works vs. the City and County of San Francisco, et al.

I began work January 12, 1904, in connection with Mr. C. E. Grunsky, City Engineer, taking up, at his suggestion the question of lands and water rights. Upon Mr. Grunsky's resignation as City Engineer, I was given entire charge of the engineering features of the case by yourself in March, 1904, and have remained in charge up to the present time.

At the outset I had determined to do no "estimating" but resolved to secure all the facts that I could relative to the company's property. In reading the Municipal Reports I noted that every time the city had attempted to estimate the value of the water company's property, if perchance, its engineers had estimated any structure at less than cost, that the company was sure always to point out such a fact—but it always remained silent where the estimate of cost, exceeded the cost. The proper basis was to take the data of the company, and check the same, so as to ascertain the reasonableness thereof. Furthermore, as the suit was brought by the water company, and is an action in equity, and recalling the fact that he who claims equity must do equity. I certainly thought that the actual facts, surrounding the construction of the works would be brought out, and that it was both the company's and the city's duty to bring to light all of the old records, such as maps, plans, field notes, specifications, contracts, certificates of quantity, estimates for payment to contractors, reports of superintendents, engineers, inspectors, etc.; vouchers, pay rolls, etc., which would show everything relative thereto.

I called at the office of the attorney of the company and made known my request for information. Mr. Kellogg saw no reason why I should not have it, provided, etc.

DIFFICULTY IN SECURING INFORMATION.

The policy of the Spring Valley Water Company in withholding information was carried out. Time after time were visits made to the office of the Chief Engineer relative to data, only to be met with the reply either that there was none, or that it was being prepared, or that it was not quite ready, or that all details would be fully presented as soon as Mr. Schussler went upon the stand. The many trips that yourself made with me to the company's offices, always resulted the same, but with a different explanation each visit, as to the non-appearance for what we asked. A few plans were given us to trace, but at the rate at which they were doled out, it would have taken several years to get all.

On the 1st of August, 1904, Mr. H. Schussler, the company's Chief Engineer, took the stand. As promised by the legal department the details would now be forthcoming. Mr. Schussler was on the stand until February, 1905, and when asked for a copy of his notes from which he testified, he refused, upon cross examination to permit even an inspection of the same to be made by the city's engineers. As everyone knows, an engineers notes are presumed to give the authority and source of the information from which he testifies. Mr. Schussler testified from "estimates." He has information or can get it, so that he does not have to estimate anything.

Mr. Schussler made a report to his company dated December 1, 1867, in which he gives full details of cost of the structures built under his direction. This report not only gives the quantities of material, but also the labor hours and days which went into the structures. His payrolls were most minute. His reports show not only how many men were employed, in doing a certain work, but he classified them as to occupation and wages.

After repeated requests relative to my seeing the index of the contents of the vault in the Chief Engineer's office, I have not yet been able to do so.

The injunction had been granted in June 1903, and I was of the opinion that by March, 1904, the company would certainly have its data in shape.

But the data it had on hand, to wit, the cost backed up by reports, etc., which gave the quantities and all necessary information, was evidently not what the company wanted. It sought to ascertain the quantities and qualities of materials which comprised its structures by "estimating"—What the structures would now cost if built in the manner that they were built. But the company did not submit its payrolls and show that it took so much labor to do the work originally—the wages were such then; they are so much now. That would give the difference, if any, in the labor. The company did not submit the quantities and qualities of the materials which comprised all of its structures from the reports of its inspectors, engineers, etc. and show that they cost so much originally, that the same would cost such a price now, and thus ascertain the difference, if any, in the cost of the materials at the present time. The sum of the differences in the present cost of labor and materials added to or subtracted from the original cost would have given the present cost of the work in the manner in which it was built. There would have been no "estimating" in this.

Mr. Schussler the Chief Engineer, in his affidavit on behalf of the company filed in 1904, stated "that there is no person other than himself who is familiar in detail with all of said properties or with all of the construction of the constructed parts thereof." and that he had been with the company thirty-nine years and its Chief Engineer for thirty-seven years. This superior knowledge must be based upon facts alone. He evidently did not use these facts, because he "estimated," which any engineer can do, and hence did not avail himself of his advantages. The city practically took the hitherto impregnable position of the company and reversed positions. Where formerly the city "estimated" for lack of better data, it now confronted the company with its "the company's own data" and the company ignoring its own data, presented "estimates."

BOOKS OF THE SPRING VALLEY WATER WORKS.

It had been determined by Mr. Grunsky to make an examination of the items charged to operating expenses and to permanent improvements for the three years 1901, 1902, 1903 by the Spring Valley Water Works. For this purpose Mr. Wenzelburger, certified public accountant, was selected and he was engaged upon this work at the time that I took charge. The other work done by him was at my request. Mr. Wenzelburger with a corps of assistants spent nine months in an examination of the Spring Valley Water Works' books.

He submitted two reports explanatory of the work upon which he was engaged; the first, dated June 3, 1904, being a resume of the first five months of his investigations; the second, dated October 25, 1904, giving a complete statement of his work from the beginning.

He calls attention to the fact that nine of the company's cash books are missing, hence a large number of details could not be obtained. Furthermore he was refused the privilege of examining the Suburban Company's books.

He gave fifteen items, aggregating \$3,309,322.63, which he claims are improperly charged to the company's Construction Account, and leaving, as the total cost to January 1, 1904, of all the properties that the company has ever purchased, whether the same are in use at the present time, or have gone out of use, or have never been in use, including all money paid out for lands, water rights, rights of way, construction, etc., the sum of \$26,925,153.32.

He further calls attention to the fact that since the incorporation of the Spring Valley Water Works, the Profit and Loss account, which began June 4, 1861, shows that the total profits of the company, divided and undivided, have been \$26,780,-673.21, of which sum \$22,364,148.73 have been paid to stockholders in the shape of dividends. The company received during that time in the shape of income from water rates, rents, fishing, and sundries, a total of \$52,289,499.06.

He prepared a resume of the operating expenses of the company for each of the years 1901, 1902, 1903.

He prepared a resume of the permanent improvements charged to the Construction Account for the years 1901, 1902, and 1903.

He prepared a construction account showing all items charged to construction from the year 1860 to January 1, 1904.

He prepared "Income" and "Profit and Loss" accounts from 1860 to January 1, 1904.

He prepared a report of the salaries paid by the company for each of the years 1901, 1902, 1903.

He prepared a report of the Crystal Springs Dam Account. The total charge against this Dam on the company's books are \$2,242,686.92. The items for which no details are given in his report, owing to the missing cash books, amount to \$1,190,-190.01.

He also prepared a resume of the various charges to land account.

Several of the company's Trial Balances were set forth by him.

His reports and investigations are set forth in six volumes which are filed as defendants' Exhibits 97 to 102 inclusive.

A copy of each of the above reports is on file in the City Attorney's office. There are six volumes in all.

BOOKS OF THE SAN FRANCISCO WATER WORKS AND VOUCHERS AND RECORDS OF THE SPRING VALLEY WATER COMPANY.

Mr. Wenzelburger did not examine the books of the San Francisco Water Works. These latter books, the officers of the company in response to questions by members of the Board of Supervisors during water investigations stated they never had. Some of these books were produced in court during this case. It is safe to say that wherever it becomes necessary for the company to produce a book or record to prove its own contention, that the same will be forthcoming. A corporation which has preserved trivial slips of paper since 1858 is not in the habit of losing books or records. From a personal examination I am able to state that the records show that the doings of the officers and employees of the old San Francisco City Water Works and the Spring Valley

Water Works were fully set forth in reports. The reports of the engineers, superintendents, inspectors, etc., made to the companies or their officers, will enable the present company to ascertain every detail relative to the cost of its works. The quantity, quality, and price of the material and the total time for each grade of labor and its compensation can be ascertained.

The vouchers where the same have not been disturbed are arranged in order of date of payment, backed with accounts to which charged, and generally tied in bundles containing one month's vouchers. Even the correspondence of the first years relative to construction is most carefully preserved.

SYSTEM OF KEEPING BOOKS.

The company's method of keeping books has been changed several times and it is quite a puzzle to follow some accounts charged to construction.

Take the Pilarcitos Pipe Line.

As the several structures which comprise it were built, each was given a distinctive name, for instance the Abbey flume, Abbey pipe line, School-house pipe, San Andreas Valley pipe, Bald Hill pipe, Tunnel No. 1, also known as Pilarcitos Tunnel No. 1, San Mateo and San Andreas Tunnel, also known as Pilarcitos No. 2, are all structures on the same aqueduct. Then again, "Tunnels No. 2 and 3" are old abandoned tunnels on the first Pilarcitos flume or aqueduct, which the present pipe line superseded.

The route or right of way of the present pipe is different to a large extent, being shorter and more direct. Hence payments for rights of way on the old abandoned line, are to be reckoned with. These items are cited to show the utter helplessness of any person not fully conversant with the history of each structure, in the presence of the cost of construction as the same is shown upon the company's books, when he attempts to link the various items together, especially with reference to determining what structures and what proportion thereof are in use or not.

SUBURBAN WATER COMPANY

The Suburban Water Company, a corporation has its stock owned by the Spring Valley Water Works or Company. This company is ostensibly in the water business to the extent that it buys what lands or water rights it chooses, builds such structures as it needs, etc. The Spring Valley Water Works pays all the bills, in the meanwhile, and when necessary, Spring Valley gets a deed from the Suburban Water Company.

Upon Mr. Wenzelburger's demand, and subsequently upon mine, some two months ago, the officers of the Spring Valley Water Works refused to permit an inspection of the Books of this company. If this position can be maintained, then every practicable source of information can be closed to the City, and the statute of 1881 is a dead letter.

EXHIBITS FILED WITH THE BOARD OF SUPERVISORS BY THE SPRING VALLEY WATER WORKS.

(Double charges in the same.)

A rather curious condition of affairs is encountered in the Crystal Springs Dam Account.

Mr. Wenzelburger was instructed to get out the details of this dam. He found the cash books missing for a period covering about one-half of the expenditure, i. e., \$1,190,190.00.

On the 15th of November, 1905, I was given the privilege of examining the company's vouchers. I determined to get the details covered by the missing cash books, which I found charged in the ledger to the Crystal Springs Dam. I found that vouchers were missing for an aggregate total of \$341,967.21. Some of these vouchers which were for large sums, such as \$41,817.90; \$60,138.01, etc. The packages which should have contained the missing vouchers outwardly looked alright, but the vouchers were all turned "topsey turvey" and had evidently been put back in a hurry and with no regard to arrangement. The missing cash books covered the missing vouchers.

ANOTHER CURIOUS INCIDENT IN CONNECTION WITH THIS DAM.

There are items aggregating over \$275,000 for lands and Riparian Rights charged to this dam.

On December 7, 1900, the Spring Valley Water Works filed Exhibit No. 5 with the Board of Supervisors (Municipal Report 1900-1, p. 41-48) showing cost of property known as Crystal Springs. In the list the Crystal Springs Dam is given as "Dam begun in February, 1886, \$2,242,864.37; in addition is given a list of land purchases and their

cost. In this list of lands are items aggregating over \$275,000 which are already charged to the dam, i. e., in the \$2,242,864.37 sum. Thus the cost of this Crystal Springs property is \$275,000 too much.

I also found that similar duplicate charges are made in the exhibits filed by the said company during the same investigations by the Board of Supervisors in the cost of the Market Street Reservoir property, Locks Creek Line, etc.

This misleading information remains to this day, January 6, 1905, uncorrected upon the records of the Board of Supervisors of the City and County of San Francisco.

THEORIES OF VALUE.

Employed in Water Works Valuation.

So as to enable me to present to you the various theories of value advanced in the valuations of Water Works properties, I examined the testimony in the following cases:

The condemnation of the properties of the eight water companies supplying the City of London, England, with water, under authority of the "Metropolis Water Act 1902."

The Gloucester Water Company vs. The City of Gloucester.

The Newburyport Water Works vs. The City of Newburyport.

Cities of Malden, Medford and Melrose, etc., vs. Commonwealth of Massachusetts, known as the Spot Pond Case.

The Kennebec Water District vs. The City of Waterville, Maine.

Findings of the Board of Arbitrators in the case of the Dubuque Water Company vs. The City of Dubuque, Iowa.

The Los Angeles City Water Company vs. The City of Los Angeles.

LANDS, WATER RIGHTS AND RIGHTS OF WAY.

Five large maps and a smaller key or index map were made which have been filed as Exhibits in the case, showing the lands, water rights and rights of way to the extent that the description could be platted, which were claimed by the Spring Valley Water Company to be in use in furnishing water to the City of San Francisco and its inhabitants.

Upon demand, the company submitted copies of some five hundred deeds, which were claimed by it to be correct copies of the original deeds, with the explanation that the original deeds were not available owing to a rule of the Board of Directors not allowing original documents to be taken out of the vaults. Copies were made of these "copied deeds" which were subsequently bound in two sets of four volumes each, properly indexed by numbers and by alphabet. One set was filed with the Clerk of the Board of Supervisors.

It was necessary to secure copies of the maps in the Surveyor-General's Office to be used as base maps in the compilation of the general map.

The description in each of the deeds was plotted and the position of each parcel of land was correctly indicated upon the map, each deed being given a distinctive color. In some cases, it was ascertained that the same land was covered by four deeds. The carrying out of this work entailed a great deal of expense, as it required the services of men who were posted on the local conditions where the lands were situated.

It was impossible with the data furnished, to locate or form an idea of the total mileage of rights of way in use, as some were abandoned, and the officers of the Company could give us no definite information. Mr. Will Brooks, the company's land agent, admitted this on cross-examination.

Prewious to this work having been done, the only information the City had as to the company's lands was a list of deeds and the outline of all the lands lying in the different counties, but the location of the individual pieces could not be ascertained from an inspection of the exhibits which had been filed by the Spring Valley Water Works. This was especially true in the case of the Alameda Creek water rights. This map shows the position of every right purchased, the area and price paid as far as given by the Company's record. It shows exactly the land secured by the celebrated million dollar purchase, known as the "Calaveras Purchase" made in 1875. The cost of every piece of land was ascertained to the extent of the information available. In many instances it was impossible to separate land and water rights purchased, as the same instrument covered both with no segregation. Wherever this occurred, price was entered under lands. A brief resume of the land purchases, water rights and rights of way compiled from the company's own records, shows the following:

GENERAL SUMMARY

Total cost of the lands of the Spring Valley Water Company claimed by the Company to be in use, and the cost of the water rights and rights of way. Cost obtained from the Spring Valley Water Company and recorded deeds.

Lands:		
San Mateo County (exclusive of Lake Merced).....	\$1,269,805.84	
San Francisco County (exclusive of Lake Merced).....	485,519.89	
Alameda County (including the \$1,000,000.00 purchase).....	2,116,718.91	
Lake Merced (sold land for \$42,162.00, see note below).....	670,098.60	
Total.....		\$4,542,143.24
Rights of way:		
San Mateo County.....	\$78,280.03	
Alameda County.....	37,547.55	
San Francisco County.....	3,054.00	
Total.....	\$118,881.58	\$118,881.58
Water Rights:		
San Mateo County.....	78,526.00	
Alameda County.....	296,763.87	
San Francisco County.....	150,000.00	
Total.....	525,289.87	525,289.87
Total: Lands, Water Rights and Rights of Way.....		\$5,186,314.69

In 1901 the Spring Valley Water Company, by order of condemnation of the Federal Court, sold to the United States 41.4 acres of land near Lake Merced, and received therefor \$37,260.00, and for damages \$4,902, total \$42,162.00. Deducting this amount from the above total \$5,036,314.69, leaves \$4,994,152.69 as the total cost of lands water rights, and rights of way at this date, September, 1904, making use in his tabulation of all available information. This also reduces the cost of Lake Merced Lands from \$670,098.60 to \$627,936.00 and the total cost of lands to \$4,499,981.24

Lands sold near Lake Merced to the United States.....	\$	42,162.00
Total deducting last term.....	\$5,144,152.69	
Add cost of property conveyed by consolidation deed San Francisco City Water Works to Spring Valley Water Works Black Point Pump Station and the two Russian Hill Reservoirs.....		18,300.00
		\$5,162,452.69

Total Acreage September, 1904:		
Peninsula System in San Mateo County.....	18,859.94	acres
On Alameda, Laguna and San Antonio and Calaveras Creeks.....	23,399.59	acres
Lake Merced Lands San Francisco County and San Mateo County.....	2,700.00	acres
Various lots in San Francisco, no acreage given.....		
	44,959.53	acres

Note:—There are many thousand acres of land which the Company owns standing in the name of trustees, etc., these of course have not been included.

Description of the six maps previously mentioned will now be given.

The first one offered in evidence (Exhibit 91, p. 601 of J. H. Dockweiler's testimony) is entitled "Map showing lands of the Spring Valley Water Company in the Peninsula Reservoir System, comprising the lands in the Crystal Springs, San Andreas and Pilarcitos reservoir systems; compiled from all available sources, mainly from copies of deeds furnished by Spring Valley Water Company." The scale is 10 chains, 1 inch.

Each separate piece of land is outlined by a distinctive color, so that one may see at a glance what land is covered by more than one deed; in a few cases there are as many as four. A table accompanies the map, showing the numbers of the deeds, areas of tracts, total prices and prices per acre paid for same.

The total area of the peninsula reservoir lands, as shown on this map is 18,859.94 acres, which cost \$1,231,139.23. The average price per acre was \$65.27.

The next map is entitled "Map showing lands of the Spring Valley Water Company in Calaveras Valley, Alameda and Santa Clara Counties." Scale 10 chains, 1 inch. (Exhibit 93, p. 604 of J. H. Dockweiler's testimony.)

It sets forth the lands purchased; the parties from whom they were purchased, date of purchase, the acreage, and prices paid. The total area purchased was 7,392 acres, costing \$1,265,372.

The third map (Exhibit 94 p. 607, J. H. Dockweiler's testimony) shows the lands lying in the vicinity of the Pleasanton or Laguna Wells, and the lands lying in the vicinity of the Sunol Filter beds.

The tables accompanying the map give the usual data. The totals of the lands in the vicinity of the wells are: acreage, 973.97; cost, \$233,390.90; average price per acre, \$239.63. The totals of the lands on Calaveras, San Antonio and Laguna Creeks, acquired from the Suburban Company in 1902, are: acreage, 14,213.23; cost, \$552,388.51.

The fourth map is entitled "Map showing water rights, lands and rights of way acquired by the Spring Valley Water Works on Alameda Creek, as set forth in exhibits filed by the Spring Valley Water Works with the Board of Supervisors during the years 1900-1903, inclusive." Scale 1000 feet, 1 inch. (Exhibit 95, p. 608, J. H. Dockweiler's testimony.)

The accompanying table shows the number of the deed, the index, the grantor, the date of purchase, the amount paid (total and per acre) and all the water rights in Alameda Creek lying between Mt. Diablo meridian and the bay.

The water rights aggregate \$296,763.87; rights of way, \$36,172.75; lands, \$65,567.50; total on Alameda Creek \$398,504.12.

The key map mentioned on page 13 of this report is a small scale map on which are delineated all the lands of the Spring Valley Water Company in Alameda County included in the three maps previously described, and indicating which areas are shown on each of the three. This is also a part of Exhibit 95.

The fifth large map (Exhibit 96, p. 611, J. H. Dockweiler's testimony) is entitled "Lands and Real Estate of the Spring Valley Water Company in San Francisco, located from descriptions in deeds referred to in Spring Valley Water Company's Exhibit No. 12, in Appendix to the Municipal Reports of 1900-1901." Scale 600 feet, 1 inch.

The tables accompanying the map show:

First. A summary of the Lake Merced lands. The total amount paid, as here set forth, was \$670,098.60.

Second. Summary of rights of way in San Francisco. Total cost \$3,054.

Third. Summary of lands and real estate in San Francisco, July, 1904. Total cost \$485,519.89.

INVESTIGATION AS TO THE COST OF SUPPLYING WATER TO CITIES OF THE UNITED STATES.

Data relative to water supply were gathered from about 100 cities of the United States having municipally owned water works. A great deal of correspondence was necessary, about 600 letters having been sent to water works officials. The letters were generally in the form of requests for reports, and in case there were no printed reports available, lists of questions were enclosed, which the officials were asked to have filled out with information relative to their works. If reports were received, one of these lists or sheets was filled out for each City in the office, so that the figures would be in the same shape for all cases. As no report contained all the data that was wanted, at least one additional letter had to be written to each city, and, in the majority of cases, several additional letters.

Having obtained as much as possible of this original information, the next step was to compute the unit figures and percentages upon which the comparison of the respective plants would be based. These results were entered in each case upon a second sheet. The figures were then in shape to be tabulated.

(Copies of the two blank forms mentioned are attached herewith, following page 29.)

The results of this investigation are compiled in a table entitled "Statistics of Water Supplies of Cities of the United States—Municipal Plants—for the year 1903. Prepared by J. H. Dockweiler, Consulting Engineer to Percy V. Long, City and County Attorney, San Francisco, Cal., Nov. 1905. Table No. 1, to accompany report on Reasonable Water Rates." This table gives statistics of the water supplies of 54 cities, arranged under 81 captions, which are as follows:

(Note:—Complete data for some cities could not be obtained, so blank spaces appear in some lines on the table.)

- A. Number in Bul. No. 20 U. S. Census, 1905.
 1. City.
 2. Date of Construction.
 3. Date when fiscal year ends.

Population:

4. Total.
5. On lines of pipe.
6. Supplied with water.

Physical Record for the Year:

7. Owner.
8. Source of Supply.
9. Mode of Supply.

Capacity:

10. Of impounding reservoirs, gallons.
11. Of distributing reservoirs, gallons.
12. Of works gallons per day.
13. Miles of mains.

Distribution:

14. No. of taps.
15. No. of meters.
16. % of taps metered.

No. of Hydrants:

17. Public.
18. Private.
19. Hydrants per mile of main.

Pressure in pounds, per square inch.

20. Ordinary.
21. Fire.
22. Total consumption for the year, gallons.
23. Total pumpage for the year.
24. Per cent of consumption pumped.
25. Pump capacity, gallons daily.

Average Head against which Pumps Work, Feet.

26. Static.
27. Dynamite.
28. Total gallons metered during the year.
29. Per cent of consumption metered.
30. Total gallons filtered during the year.
31. Per cent of consumption filtered.
32. Average daily consumption, gallons.
33. Daily consumption per capita, gallons.
34. Daily consumption per consumer, gallons.
35. Daily consumption per tap, gallons.
36. Population per mile of main.
37. Consumers per mile of main.
38. Population per tap.
39. Consumers per tap.
- A. Number of city.
40. Total cost of works to date.
41. Total cost by U. S. Census 1905. (Bulletin 20, p. 104).
42. Bonded debt.
43. Floating debt.
44. Percentage of cost of works upon which interest is being paid.
45. Average rate of interest. (%)
46. Present value of sinking fund.

Financial Record for the Year:

Revenue.

47. Metered consumers.
48. Un-metered consumers.
49. Public service.
50. Received from taxes.
51. Miscellaneous meter and service connections, rents, etc.
52. Total ordinary receipts.
53. Extraordinary receipts from bonds and similar securities, etc.
54. Total receipts during year.
55. Cash balance from last year.
56. Total revenue from all sources including balance.

Expenditures:

Expenses:

57. Interest.
58. Taxes.
59. Operating.
60. Maintenance.
61. Miscellaneous.
62. Total expenses.
63. Net Revenue.

Payments for Property:

64. Bonds paid.
65. Payment to sinking fund.
66. Construction.
67. Total.
68. Grand total paid out during year.
69. Amount invested per million gallons daily capacity of plant.
70. Amount invested per million gallons daily delivery of plant.
71. Amount invested per mile of mains.
72. Amount invested per tap.
73. Amount invested per capita.
74. Amount invested per consumer.
75. Total expenses for taxes, miscellaneous interest, maintenance and operation, bonded and sinking fund payments per million gallons delivered.
76. Expenses for taxes, interest, maintenance, operation and miscellaneous per million gallons delivered.
77. Expenses for maintenance and operation per million gallons delivered.
78. Ordinary receipts per million gallons.

Total cost per annum based on revenue received from all consumers, public service, taxes and miscellaneous:

79. Per capita.
80. Per consumer.
81. Per tap.
82. Number of city.
83. Sources of information and remarks.

At the bottom of the table appears information relative to the Spring Valley Water Works of San Francisco for the fiscal year 1903-1904 in two lines. The upper line gives the physical statistics for the year, and financial data based upon actual receipts of the company for the year. On the second line is given the revenue which the company would have received from the rates fixed by Bill No. 817—the contested rates—for the year 1903-1904 for which the injunction was issued—excluding all rents from office building and from lands, although the cost of the office lot and building is included in the figure given as the cost of the works.

The amount taken, on both lines, as the cost of the works is the valuation fixed by the Board of Supervisors of the City and County of San Francisco in February 1903, and set forth in Bill No. 817.

This table was filed as Defendant's Exhibit 73.

Table No. 1 shows, for the 53 municipal plants, only actual original data furnished by the officials of the respective plants, and unit figures and percentages obtained by computation from the original data given. A direct comparison cannot be made between the figures for municipal plants and those for private plants, for the reason that a private plant has to pay interest on all the money invested and taxes on the assessed value of its property, while the municipal plant pays no taxes, and pays interest only on its debt, which ranges from zero up. In order, therefore, to put the municipal plants upon a basis comparable with private plants, Table No. 2 was prepared. This is entitled "Table No. 2—Reasonableness of Rates. Comparison of Municipal Water Works under conditions which would prevail if same were privately owned—for the year 1903." Here is shown, under the head of "Expenses for the Year," the actual cost of maintenance and operation as given in Table No. 1; the interest charges on the total cost, taking the rate of interest paid by each plant on its bonded debt as the basis of computation; and the taxes, based upon the total tax rates actually paid upon property in the respective cities, as obtained by correspondence from the Assessors of the cities. Taking the total of these three items, we obtain the total amount which the plant would have to receive from consumers if it were privately owned; and from this total are computed the rates which would be charged, on this basis, per capita per consumer and per million gallons supplied. These deductions are comparable with the corresponding actual figures for privately owned plants.

At the bottom of the table are shown the rates which would be received by the Spring Valley Water Works under the contested rates, excluding receipts from rents.

Table 2 was filed as Defendant's Exhibit 78.

Table No. 3 on Reasonableness of Rates is entitled, "Comparison of Municipal Water Works on Basis of Actual Receipts arranged per capita and per consumer per annum, also per million gallons supplied, with same plants if privately owned on basis of theoretical receipts for like headings—for the year 1903." This table is merely a recapitulation of the annual charges per capita and per consumer and the charges per million gallons, both theoretical and actual, the columns being simply copied from Tables 1 and 2. A column is added showing the ratio of actual to theoretical charges, actual being taken as 100%.

Table 3 was filed as Defendant's Exhibit 82.

In order to illustrate these three tables graphically, in a manner which will appeal readily to the eye, thirteen diagrams were prepared, each of which is a graphical representation of some column. On each one the cities are arranged in the order of the magnitude of the quantity represented, the smallest on top, except San Francisco, which is at the bottom in every case. On each sheet the arrangement is by columns, as follows:

Name of city
 Population supplied with water
 Column containing the figures which are to be graphically shown.
 Graphical representation, in which each city's figure is represented by a line drawn to a scale.

The following is a list of the titles of and deductions from the 13 diagrams.

No. 1. Diagram showing receipts per annum per consumer in cities of the U. S. having Municipal Water Works, compared with the City of San Francisco, supplied by the Spring Valley Water Works, a private corporation. Year 1903.

This illustrates column 80, Table 1, and shows that if the Spring Valley Water Works had charged for water during the fiscal year 1903-1904 according to the rates fixed by Bill No. 817, it would have received a higher rate than is charged by any of the 53 cities shown in comparison, and if the Spring Valley Water Works had received its income on the basis of the valuation testified to by Mr. Schussler, viz: \$51,500,000, the rate would have been nearly double that of any of these 53 cities.

Diagram No. 1 was filed as Defendant's Exhibit 72.

No. 2. Diagram showing ordinary receipts per million gallons of water delivered in cities of the U. S. having municipal water works compared with the city of San Francisco, supplied by the Spring Valley Water Works, a private corporation. Year 1903. Illustrating Col. 78, Table 1.

This shows that, under the rates fixed by Bill No. 817, the San Francisco rate per million gallons would have been exceeded by only two cities which it should be noted are among the smallest in population. The total number shown is 54.

Diagram No. 2 was filed as Defendant's Exhibit 71.

No. 3. Diagram showing amount invested per million gallons daily delivery of plant in cities of the U. S. having municipal water works, compared with the City of San Francisco, supplied by the Spring Valley Water Works, a private corporation, Year 1903. Illustration Col. 70, Table 1.

San Francisco is exceeded by four cities all of which are very small in comparison. The total number shown is 53.

Diagram No. 3 was filed as Defendant's Exhibit 69.

No. 4. Diagram showing amount invested per million gallons daily capacity of plant in cities of the U. S. having municipal water works, compared with the City of San Francisco, supplied by the Spring Valley Water Works, a private corporation. Year 1903.

Illustrating Col. 69, Table 1.

San Francisco is exceeded by one city—Newton, Mass., whose population is only 36,700.

The total number shown is 48.

Diagram No. 4 was filed as Defendant's Exhibit 70.

No. 5. Diagram showing what rate per million gallons consumers now supplied with water by municipal plants would have to pay if the same plants were privately owned; also showing the rate per million gallons which the Spring Valley Water Co. would receive under the rate fixed by Bill No. 817.

This is a graphical representation of Col. 20, Table 2. It shows that if the municipal plants were privately owned and receiving revenue on the basis previously explained, three cities would receive higher rates per million gallons than the S. V. W. Co. would under Bill No. 817. It will be observed that none of the three exceed 40,000 population.

Diagram No. 5 was filed as Defendant's Exhibit 79.

No. 6. Diagram showing what annual rate consumers now supplied with water by municipal water works would have to pay if the same plants were privately owned; also showing the rate per consumer which the Spring Valley Water Works would receive under the rates fixed by Bill No. 817. Year 1903.

This is a graphical representation of Col. 19, Table 2. It shows that the theoretical rate is higher than that of San Francisco, in only one city—Boston, which is supplied by the magnificent Metropolitan System, whose cost is high owing to the fact that the supply and capacity are ample for a number of years to come; and high cost means high charges for interest. 42 cities are shown in all.

No. 7. Diagram showing actual receipts per consumer by municipal water works, compared with theoretical receipts if same were privately owned. Year 1903.

This is a graphical representation of Columns 4 and 5, Table 3. Both actual and theoretical rates are shown, the basis of arrangement being the theoretical rate. San Francisco's actual rate stands highest among the actual rates, while the theoretical rate (based upon Bill 817) stand second highest among the theoretical rates for 42 plants, as already explained in discussing Diagram No. 6.

Diagram No. 7 was filed as Defendant's Exhibit 83.

No. 8. Diagram showing actual receipts per million gallons delivered by municipal Water works, compared with theoretical receipts if same plant were privately owned.

This represents graphically columns 6 and 7, Table 3. The basis of arrangement here is also the theoretical rate. 42 cities are shown. San Francisco has the fourth highest actual rate. None of the cities exceeding San Francisco have over 40,000 population.

Diagram No. 8 was filed as Defendant's Exhibit 84.

No. 9. Diagram showing the cost of maintenance and operation per million gallons delivered for municipally owned water works in cities of the U. S. in comparison with the Spring Valley Water Works. Year 1903.

This is a graphical representation of Col. 77, Table 1, and shows that the S. V. W. Cos. cost of maintenance and operation per million gallons delivered is exceeded by seven municipal plants, all being much smaller than San Francisco, the largest being Memphis, with 120,000 population. 53 cities are shown here.

Diagram No. 9 was filed as Defendant's Exhibit 74.

No. 10. Diagrams showing the amount of capital invested per mile of distributing mains in municipally owned water works in the U. S., in comparison with the Spring Valley Water Works. Year 1903.

This diagram graphically represents Col. 71, Table 1. It shows 53 cities among which San Francisco stands second highest. Boston is the highest for reasons already explained in discussing Diagram No. 6.

Diagram No. 10 was filed as Defendant's Exhibit 75.

No. 11. Diagram showing the amount of capital invested per consumer, in municipally owned water works in the U. S., in comparison with the Spring Valley Water Works. Year 1903.

This diagram graphically represents Col. 74, Table 1. It shows 53 cities, San Francisco standing second highest. Boston is highest, for the reasons already pointed out in connection with Diagram No. 6.

Diagram No. 11 was filed as Defendant's Exhibit 76.

No. 12. Diagram showing total receipts from water rents, public service, taxes, rents and miscellaneous sources, for municipally owned water works in cities of the U. S., in comparison with the Spring Valley Water Works. Year 1903.

This diagram graphically represents Col. 52, Table 1. San Francisco although the ninth city in population among the 54 cities shown has the fourth place in order of total receipts. One would expect to see it several points lower in the scale.

This diagram was filed as Defendant's Exhibit 77.

No. 13. Diagram showing the total theoretical receipts from water rents in cities of the U. S. having municipal water works, if said plants were privately owned, in comparison with the receipts which the Spring Valley Water Works would have received under rates fixed by Bill No. 817. Receipts from rents and miscellaneous sources not included. Year 1903.

This is a graphical representation of Col. 17, Table 2. It is analogous to Diagram No. 12, and shows that San Francisco stands fourth in order of theoretical receipts, while it is ninth in population among the 41 cities shown.

Diagram No. 13 was filed as Defendant's Exhibit 81.

In addition to these tables and diagrams, a combined table and diagram was prepared, entitled "Average Cost of Salaries and Wages per Million Gallons of Water Furnished. Based upon data collected from 309 private and 492 municipal plants by the U. S. Commissioner of Labor for the year ending 1898, 14th Annual Report—1899, p. 31. The data for the Spring Valley Water Works are given at the bottom, and shows that the cost to the S. V. W. W. for salaries and wages is far in excess of the average cost for works furnishing the same quantity of water—either private or municipal plants.

This was filed as Defendant's Exhibit 85.

(Sheet No. 1. Copies of this were sent to the various cities to be filled out with statistics.)

WATER WORKS STATISTICS DESIRED FOR THE YEAR.

	City	
Date when fiscal year ends.....		
Estimated population of district.....		
Estimated population on lines of pipe.....		
Estimated population supplied.....		
Date of construction		
By whom owned		
Source of supply		
Mode of supply		
Miles of mains		
Number of taps		
Number of meters		
Number of Hydrants		
Pressure in lbs. per sq. in.....		
Total number of gallons consumed for year.....		
Total number of gallons pumped for year.....		
Average static head against which pumps work, in feet.....		
Average dynamic head against which pumps work, in feet.....		
Total number of gallons passed through meters for year.....		
Total number of gallons filtered for year.....		
Average daily consumption in gallons.....		
Capitalization.....	\$	
Total cost of works to date.....	\$	
Present value of works	\$	
Bonded debt at date	\$	
Floating debt at date	\$	
Value of sinking fund at date.....	\$	
Average rate of interest	%	
Revenue:		
Metered consumers	\$	
Unmetered consumers	\$	
Public service	\$	
Taxation to cover deficits, if any.....	\$	
.....	\$	
Total	\$	
Expenses:		
Operating	\$	
Maintenance (Repairs and Renewals).....	\$	
Interest	\$	
Taxes	\$	
.....	\$	
Total	\$	
Net Revenue	\$	
Bond payments during year	\$	
Payments into sinking fund during year.....	\$	
Construction expenses during year	\$	
Total storage capacity of all distributing reservoirs.....		
Total storage capacity of all impounding reservoirs.....		
Capacity of existing works, expressed in gallons, daily supply.....		
Estimated cost of construction per million gallons daily additional supply, based upon doubling present capacity.....	\$	
Bonds issued during year		
Pumping capacity of works, in gallons daily.....		

(SHEET No. 2.—COMPUTATIONS MADE FROM SHEET 1.)

CITY..... OWNERSHIP.

WATER WORKS STATISTICS FOR THE YEAR.

Note—Calculations hereon based upon information furnished on accompanying sheet.

1. Average number of hydrants per mile of main
2. Average population per mile of main.....
3. Average number of consumers per mile of main.....
4. Average population per tap.....
5. Average number of consumers per tap.....

6.	Percentage of consumption metered.....	
7.	Percentage of taps metered.....	
8.	Percentage of consumption pumped.....	
9.	Percentage of consumption filtered.....	
10.	Average gallons per day to each inhabitant.....	
11.	Average gallons per day to each consumer.....	
12.	Average gallons per day to each tap.....	
13.	Percentage of total cost on which interest is being paid.....	
14.	Cost per million gallons delivering capacity.....	\$
15.	Cost of works per million gallons daily delivery.....	\$
16.	Cost of works per mile of main.....	\$
17.	Cost of works per tap.....	\$
18.	Cost of works per capita.....	\$
19.	Cost of works per consumer.....	\$
20.	Cost of supplying water per million gallons based on operating expenses and maintenance.....	\$
21.	Total cost of supplying water per million gallons based on operating expenses, maintenance, interest on bonds and Miscellaneous.....	\$
22.	Total disbursements, including operating expenses, maintenance, taxes, interest, bond payments, payments into sinking fund and miscellaneous per million gallons supplied.....	\$
23.	Average gross revenue per tap.....	\$
24.	Average gross revenue per capita.....	\$
25.	Average gross revenue per consumer.....	\$
26.	Average gross revenue per million gallons.....	\$
	Remarks.....	
	
	

INVESTIGATIONS RELATIVE TO COST OF SUPPLYING WATER IN FOREIGN CITIES.

The testimony adduced before the Board of Arbitration appointed by the "Metropolis Water Act 1902" was examined and the statistics relative to the supply of London with water by the eight private companies were obtained therefrom. There are 12 bound volumes of this testimony, and I believe it is the only set in the United States.

Letters were likewise sent to the United States consuls in foreign cities, and the information was arranged and presented in my testimony.

MISCELLANEOUS INFORMATION.

Letters were sent to the State Insurance Commissioners, relative to ascertaining the rates of interest received by Insurance Companies on their respective investments.

Letters were also sent to the Assessors of the various cities and counties to ascertain the tax rates, etc., which data was employed on the graphic water rate diagrams and tables introduced in the testimony.

The testimony presented in the case of the State of Missouri vs. The State of Illinois and Sanitary District of Chicago, during 1904 was examined. This is a suit to enjoin Chicago from turning its sewage into the Mississippi river and thus polluting St. Louis' water supply.

The latest information relative to the pollution and preservation of a city's water supply is therein contained.

This testimony is in eight bound volumes.

THE TUOLUMNE.

Data relative to the reservoirs, their location, number, size and capacity, which could be available for the storage of water in the basin of the Tuolumne were gathered and placed upon a map (which is placed upon the map roll). A report relative to the conditions existing with reference to the quantity of water flowing in the Tuolumne river, the area of land, and quantity of water required for it from the river, etc., was prepared and is on file in the City Attorney's office. Accompanying said report is a diagram which shows the flow of the Tuolumne river by months for a period of nine years, the quantity of water available for domestic use, and that required for irrigation. This diagram was filed as Defendant's Exhibit 87. Maps were prepared showing the land lying within the areas of the proposed Lake Eleanor and Hetch Hetchy Reservoir sites, which was in private ownership, etc.

I made a personal examination of the route surveyed for the proposed conduit line from the Tuolumne river. I examined the dam sites of the two proposed reservoirs (both of which are in granite) and took samples of the rock and had the same tested.

This examination was rendered necessary by the fact that all five of Spring Valley's engineering experts had criticized Mr. Grunsky's plan, on the score that it could not be built for the money he had estimated, and not one had PERSONALLY gone over the route or knew anything at first hand about it.

I went over Mr. Grunsky's estimates with himself, and he explained all the vital and controlling points to me; I found that his estimates were liberal. Spring Valley did not dare to cross-examine him upon his detail estimates of the Tuolumne.

CRYSTAL SPRINGS DAM.

Drawings and computations were made showing the comparison of the Crystal Springs Dam in relation to other noted dams of the world. The object was to show the excess of masonry in the dam, both as to present height and its future extension as originally planned. Exhibits 88, 89, and 90 cover these points.

PRESENT VALUE OF WORKS.

Detailed calculations of cost were prepared for every structure comprising the works of the Spring Valley Water Company. These calculations were based upon information gathered from responsible and active contractors in the business, and, whenever the same could be obtained, upon printed specifications copied in the office of the secretary of the Water Company and other sources. Some of the original contracts were copied and the estimates of quantities and probable cost of structures as set forth in the reports of the Chief Engineer were consulted. The reports of the early superintendents were likewise employed in securing accurate data. The progress payments to contractors setting forth price and quantity were likewise consulted. The minutes of the company afforded invaluable information.

COST OF WORKS.

The cost of every piece of land, water right, and structure not in use which was charged to construction account was ascertained and deducted therefrom. The remainder gave the cost of the plant or works in use on January 1, 1904, which equals \$22,880,462.71; deducting permanent improvements made during 1903 as shown by Wenzelburger, amounting to \$68,077.01 the cost of the works in use January 1, 1903, was \$22,199,695.70.

The Pipe Records of the San Francisco City Water Works were copied from the year 1857 to 1865, when the records were consolidated and merged into the Spring Valley Water Works.

The Pipe Records of the Spring Valley Water Works were copied from the beginning of the company to the year 1895.

The Spring Valley Water Works has never introduced a map showing the location by sizes of its entire city distribution system. The total lengths of each size pipe have been testified to by H. Schussler, its chief engineer, but until the pipe records are copied and a map made of the pipe system, the city will have no other knowledge than that given by the water company.

When this map is completed, a copy should be turned over to the fire department, who will keep it up to date.

The information derived from the pipe records has been arranged so as to show the total net pipe mileage in the ground by sizes by years. Also a map was made for each year from 1858 to 1876 showing the size and location of the pipes laid at the end of each year. Thus the gradual growth of the city is indicated.

282 days' work were used on this work.

In order to be able to ascertain the cost of laying pipe in the city, three men were employed watching the operations of the Spring Valley Water Co. and the San Francisco Coke and Gas Co.

Total time employed were 170½ days.

Complete and minute reports are on file relative to this work.

MINUTES.

Copies were made of the minutes of the San Francisco City Water Works, from August, 1857, to October, 1867, which covers the entire period of this company's transactions; an index to the same was likewise prepared, and both are bound in one volume.

The minutes of the Spring Valley Water Works from its incorporation, June, 1858, to August, 1905.

7 Vols. "A" to "G." Also index to minutes.

The minutes of the Spring Valley Water Co, from September 23, 1903, to October, 1905.
2 Vols. "A" and "B."

The certificates of the copyist and comparer giving in addition to the names the date and residence are attached to every volume, so that the correctness of the copy can be proven.

384 day's time were employed on this work.

WITNESSES FOR THE CITY.

The following witnesses were called by the city in the order in which they testified.

Robert Higgins, J. S. Emery, John Carey, W. J. Fifield, Edwin Duryea, Jr., C. E. Grunsky, Desmond Fitzgerald, A. Wenzelburger, J. H. Dockweiler.

THE POINTS COVERED BRIEFLY BY EACH WITNESS.

- ROBERT HIGGINS, a contractor—had done considerable mason work both as an employee and contractor for the company.
- JOHN S. EMERY—built the Pilarcitos dam for the company in 1864, gave cost and method of construction.
- JOHN CAREY—was a teamster formerly employed by the company, gave cost of hauling materials.
- W. J. FIFIELD—has owned about 1100 acres in the company's peninsula watershed for the past 40 years, the same is now used for a dairy. Gave price for which he is willing to sell per acre.
- EDWIN DURYEA, Jr.—Chief Engineer Bay Cities Water Company—gave value of water and cost of bringing in a substitutional supply of water. Value of land and reservoir sites.
- C. E. GRUNSKY—introduced his report on the Tuolumne project—his report on the value of the Spring Valley Water Company's property, which was the basis adopted by the Board of Supervisors. Samples of water taken from Spring Valley Water Works reservoirs, and from the lakes in the Tuolumne.
- DESMOND FITZGERALD—value of company's property, based upon cost—table of earnings on assessments paid by stockholders.
- A. WENZELBURGER—his reports and compilations introduced.
- J. H. DOCKWEILER—maps showing lands, water rights and rights of way and cost of same. Statistics of water works and diagrams relative to same. Maps of Crystal Springs Dam. Watershed and rainfall maps and diagrams. Pleasanton Wells maps and diagrams. Tuolumne project with reference to the Irrigation Districts of Modesto and Turlock. Cost of properties in use, etc. Present value of properties in use, etc. Tables showing earnings based upon loans, etc.

EXHIBITS.

The Spring Valley Water Works had filed 125 Exhibits up to December 22, 1905.

Exhibit No. 12 being a plaster cast relief map is in the office of the Chief Engineer of the Spring Valley Water Works and was never brought into the Court room.

Exhibit No. 27 is a large book of photographs, nearly 1000 in number.

Copies of 96 of Complainant's Exhibits were made for the use of the city under my direction, as set forth in the list attached to this report.

The City of San Francisco filed 107 Exhibits. There are copies of 71 of the exhibits on file in the City Attorney's office.

Duplicates of Exhibits 63 to 68 inclusive are samples of water in bottles and are on file in the City Engineer's office.

A complete list of exhibits accompanies this report.

TESTIMONY.

The original testimony as delivered by Chas. R. Gagan, the official reporter, was bound in 7 volumes, two volumes of the last testimony being unbound, total testimony to date aggregating 9 volumes.

The Spring Valley Water Company's testimony amounts to 5837 pages, whilst that introduced by the city amounts to 653 pages, or a total of about 6500 pages. (Some pages have fractional numbers.) It will thus be seen that the city's evidence is only 10% of the total number of pages.

Copies of the above testimony were made, of which one set was filed with the Board of Supervisors as the same was bound (7 vols. to date) and one set is in the City Attorney's office.

INDICES TO TESTIMONY.

Indices typically arranged were prepared from the testimony of the following witnesses of the Spring Valley Water Works:

H. Schussler, Rudolph Hering, Frederick P. Stearns, Arthur L. Adams.
There was no time in which to prepare the testimony of other witnesses.

TESTIMONY GIVEN BY OFFICERS OF SPRING VALLEY WATER WORKS
BEFORE THE BOARD OF SUPERVISORS.

An index of the testimony given on behalf of the Spring Valley Water Works during Water Rate Investigations held by the Board of Supervisors from 1883 to 1904 inclusive was prepared.

All of the testimony given before the Board of Supervisors for a period of 22 years was read and excerpts therefrom were copied and arranged under two indices.

Index No. 1 groups the subjects either under the names of distinct portions of the system or under Miscellaneous items; 19 groups being employed.

Index No. 2 re-groups the various subjects under seven general headings. All bound in one volume.

CONTENTS OF APPENDIX.

I have prepared an appendix of 23 pages which is hereto attached and made a part of this report, setting forth the data compiled and employed in the present litigation. For convenience I have grouped the same as follows:

(1) Testimony, Minutes, Field Note, and all data relative to the suit on file in the City Attorney's office (not including maps, plans, etc.)

(2) List of Complainant's Exhibits and list of Defendant's Exhibits have been copied and the copies placed on file in the City Attorney's office.

(3) List of Maps, Plans, etc., used in connection with the suit and on file in the City Attorney's office, mounted upon the Jenkins Map Roll.

(4) List of Maps, Plans, etc., used in connection with the suit and on file in the City Attorney's office, not including any copies of Exhibits or any maps mounted upon the map roll.

NUMBER OF EMPLOYEES AND TIME EMPLOYED.

Work began March 1st, 1904, and ended January 7, 1906, being distributed as follows:

Month	No. of Employees.	No. of Days	Month	No. of Employees.	No. of Days.
1904			1905		
March	8	88	January	7	87½
April	7	179½	February	5	121½
May	9	142½	March	5	155
June	5	134½	April	6	143½
July	6	125	May	10	183½
August	7	184	June	10	198
September	7	147	July	7	169
October	9	157	August	7	179
November	7	136½	September	7	135
December	2	33	October	7	151
			November	16	252
			December	13	161
			1906		
			January	2	11

TOTAL TIME—3274 days.

CONCLUSION.

I wish to acknowledge my deep obligation to yourself and Mr. John S. Partridge, your chief assistant.

I also wish to express my appreciation of the services of H. A. Noble, C. E., my principal assistant; also the services of many engineers and others employed on the work.

Very respectfully submitted,

J. H. DOCKWEILER,

Consulting Engineer.

List of data compiled and employed in the suit of the Spring Valley Water Works vs. City and County of San Francisco, et. al., No. 13395, in the Circuit Court of the United States, Ninth Judicial Circuit, Northern District of California.

Prepared by J. H. Dockweiler, consulting engineer to Percy V. Long, City Attorney, January, 1906.

Testimony, Minutes, Field Notes, and all data relative to the suit on file in the City's Attorney office. (Not including maps, plans, etc.) Pages 1-3.

List of Complainant's Exhibits and list of Defendant's Exhibits, showing which exhibits have been copied and the copies placed on file in the City Attorney's office. Complainant's Exhibits, pages 4-9. Defendant's Exhibits, pages 10-15.

List of Maps, Plans, etc., used in connection with the suit and on file in the City Attorney's office, mounted upon the Jenkins Map Roll. Pages 16-21.

List of Maps, Plans, etc., used in connection with the suit and on file in the City Attorney's office, not including any copies of exhibits or any maps mounted upon the map roll. Pages 22-23.

TESTIMONY AND INDICES TO SAME S. V. W. W. VS. SAN FRANCISCO

Arguments 1st injunction S. V. W. W. vs. City and County of San Francisco, et al. No. 13395—Suit to enjoin the City and County of San Francisco and the members of its Board of Supervisors from enforcing an ordinance fixing water rates for the fiscal year July 1st, 1903 to June 30th, 1904. (Bound volume).

Application for second injunction and arguments, S. V. W. Co. vs. City and County of San Francisco, et al., No. 13598—Suit to enjoin the City and County of San Francisco and the members of its Board of Supervisors from enforcing an ordinance fixing water rates for the fiscal year July 1st, 1904, to June 30th, 1905. (Bound volume).

Testimony taken before Examiner E. H. Heacock in pending litigation—S. V. W. W. vs. City and County of San Francisco, et al., No. 13395.

Original copy furnished by C. R. Gagan, official reporter. (7 bound volumes and 2 unbound volumes, 9 volumes to date).

One copy of same (7 bound and 2 unbound, 9 volumes).

Index and synopsis to—Testimony of H. Schussler, 1 volume.

Testimony of Rudolph Hering, 1 volume.

Testimony of Arthur L. Adams, 1 volume.

Testimony of Frederic P. Stearns, 1 volume.

Excerpts of testimony in water rate investigations held by Board of Supervisors 1883-1904. (1 copy—bound volume.)

One package, index to testimony in this case in rough.

Record State of Missouri vs. The State of Illinois and Sanitary District of Chicago. (8 bound volumes).

Metropolis Water Act, 1902—East London. (1 bound volume).

Metropolis Water Act, 1902—The New River Company. (vols. 1 and 2 bound).

Metropolis Water Act, 1902—Grand Junction Waterworks Company. (1 bound vol.)

Metropolis Water Act, 1902—Lambeth Waterworks. (1 bound volume).

Metropolis Water Act, 1902—West Middlesex Waterworks. (1 bound volume).

Metropolis Water Act, 1902—Southark and Vauxhall Water Company. (vols. 1 & 2 bnd.)

Metropolis Water Act, 1902—Chelsea Waterworks. (1 bound volume).

Metropolis Water Act, 1902—Enfield Urban District Council. (1 bound volume).

Metropolis Water Act, 1902—Borough of Croyden. (1 bound volume).

Metropolis Water Act, 1902—Kent Waterworks. (1 bound volume).

MINUTES.

San Francisco City Waterworks, copy of same and index 1857 to 1867. (1 vol.)

Spring Valley Water Works copy of minutes from its incorporation to September 1905 7 volumes.

Index to same 1 volume.

Spring Valley Water Company, copy of minutes from its incorporation in 1903 to September 1905 2 volumes.

S. F. DISTRIBUTING SYSTEM, PIPE LAYING DATA, ETC.

Note Book No. 1—S. V. W. Co. Distributing System—tabulation of pipe laid etc.—1858-1889 inclusive.

Note Book No. 2—Distributing System—tabulation of pipe laid, etc. 1890 to —. Also miscellaneous data collected by R. T. Cuppy regarding dams and dam construction.

Cost of pipe laying in San Francisco—data from S. V. W. Co. (package).

- Notes—Force and progress reports of inspectors on the pipe laying work of S. V. W. Co. and San Francisco Coke and Gas Company—the computation made in working out notes and tabulation of results for the difference pieces of work. (package).
- Pipe Records of San Francisco City W. W., also pipe records of S. V. W. W. from the beginning of the Company to the year 1895. (package).
- Maps of S. F. (sheets) showing the distributing system of S. F. City W. W. and the S. V. W. W. arranged by years from the year 1858 to and including 1876 to be completed to date. (yellow tube).
- Britton and Rey Maps of S. F. (blank) to be used in completing the record of the distributing pipe system of S. V. W. W. (yellow tube).
- Blank Sheets—same kind as used in copying the S. V. W. W. pipe records and are to be preserved to use in finishing the copying of said pipe records. (package).

S. V. STRUCTURES, DATA AND NOTES.

- Pilarcitos Dam—accounts and notes. (package).
- S. V. W. Co. Trial Balance. (roll).
- S. V. W. Co. Structures in S. F.—field notes of H. P. Vincent. (package).

LANDS.

- Note Books 3-7—Tabulation of lands and their cost in the Peninsula System of the S. V. W. W., May, 1904—also miscellaneous data.
- Index to deeds furnished by S. V. W. Co. in March, 1904. (in note books).
- Copy of S. V. W. W. deeds and index to same (bound in 4 volumes).
- Thirty-four Photographs of maps in the Surveyor General's office used in compiling the base maps which show the S. V. W. W. properties in the Peninsula System. (package).

STATISTICS.

- Original drafts of tables 1, 2 and 3 on reasonableness of rates. (roll).
- Reports and letters from Insurance Commissioners on rates of interest paid on investments. (package).
- Data and Reports relative to water supply of European cities, obtained from American Consuls. (package).
- Printed Reports from Assessors of cities used in compiling tax rates. (package).

MISCELLANEOUS.

- Press Clippings on water supply, etc. (package).
- Tuolumne River rating table and curves. (package).

EXHIBITS FILED BY SPRING VALLEY WATER WORKS (COMPLAINANT) IN RE SPRING VALLEY WATER WORKS VS. CITY AND COUNTY OF SAN FRANCISCO, NO. 1339, AND SPRING VALLEY WATER COMPANY VS. CITY AND COUNTY OF SAN FRANCISCO, NO. 13598.

NOTE—A star placed opposite to an exhibit indicates that a copy of the same is on file in the City Attorney's office.

- * 1. Diagram—population and consumption 1860-1900 and estimated population and consumption 1900-1950.
- * 2. Profiles. Grunsky's Tuolumne scheme compared with S. V. W. W. pipe line.
- * 3. Map. Watersheds of S. V. W. W. system and watersheds of Sierra Nevada streams. Scale 2 miles to 1 inch.
- * 4. Diagram. Storage on peninsula and San Andreas rainfall 1865-1904.
- * 5. Diagram. Daily consumption and capacity S. V. W. W. system.
- * 6. Diagram. Run-off of Alameda Creek.
- * 7. Total storage capacity and annual available supply S. V. W. W. system.
- * 8. Rainfall and run-off. Alameda system.
- * 9. Drainage system of South Lake Merced.
- * 10. Britton & Rey map of S. F.—S. V. W. W. reservoirs.
- * 11. Lake Merced lands, 2730A, 1903A, in San Francisco, 825A in San Mateo.
- * 12. Photograph of relief map of southern part of Bay of S. F.
- * 13. Diagram. Mean disch. in sec. ft. of Consumnes, Mokelumne, Calaveras, Stanislaus, Tuolumne and Merced rivers, 1879-1884.
- * 14. Rainfall in S. F. 1878-79 to 1884-85 inclusive. S. V. W. W. gauge.
- * 15. Map. Irrigable lands San Joaquin valley and Lombardy, Italy.
- * 16. Lake Tahoe. U. S. Geol. Survey Map. Drainage area tinted.
- * 17. Diagram. Disch. in Tuolumne river in sec. ft. 1901-1903, inc.

- * 18. Map. Lands in peninsula reservoir system.
- * 19. Map. Lands in Alameda Creek system.
- * 20. Map. Reservoirs, existing and proposed. Tables of capacities.
- * 21. Map. Entire S. V. W. W. system. Both sides bay. 1" - 1 mile.
- * 22. Profiles. Entire S. V. W. W. system. Both sides bay. 1"-2000' and 1"-40'.
- * 25. Britton & Rey map of S. F. Distributing reservoirs and some mains.
- * 24. Britton & Rey map of S. F. Streets covered by city pipe system.
- * 25. Britton & Rey map (5 colors) high and low levels, districts in S. F.
- * 26. Britton & Rey map. Main arteries in S. F. pipes 44" to 12".
- 27. Book of photographs. No copy.
- * 28. Pilarcitos dam. Plans and longitudinal section. 1"-40'.
- * 29. Pilarcitos dam. Cross sections. Small scale.
- * 30. Pilarcitos dam. Cross sections. Large scale. 1"-20".
- * 31. Pilarcitos dam. Waste weir details. Large scale.
- * 32. Pilarcitos dam. Forebay details. Large scale.
- * 33. Pilarcitos dam. Forebay 1"-4' and Tunnels Nos. 1 and 2, 1"-2'.
- * 34. Pilarcitos pipe line. Profile. 1"-4000' and 1"-100'.
- * 35. San Andreas dam. Plan 1"-40'.
- * 36. San Andreas dam. Typical cross sec., 1"-40'.
- * 37. San Andreas dam. Longitudinal sec., 1"-40'.
- * 38. San Andreas dam. Cross sec. 1"-100'.
- * 39. San Andreas dam. Waste weir details. Large scale.
- * 40. San Andreas dam. Forebay details. Large scale.
- * 41. San Andreas dam. Brick forebay. 1"-50'.
- * 42. San Andreas Pipe line profile. 1"-4000' and 1"-40'.
- * 43. Upper Crystal Springs dam. Plan. 1"-40'.
- * 44. Upper Crystal Springs dam. Typical cross-section. 1"-40'.
- * 45. Upper Crystal Springs dam. Longitudinal section. 1"-40'.
- * 46. Upper Crystal Springs dam. Cross sections. 1"-100'.
- * 47. Crystal Springs concrete dam. Contour map of foundation. 1"-20'.
- * 48. Crystal Springs concrete dam. Cross-sections and proposed addition. 1"-20'.
- * 49. Crystal Springs concrete dam. Gate tower, outlet and details.
- * 49a. Crystal Springs concrete dam. W. I. stairway and platforms, elevation. 1/2"-1'.
- * 49b. Crystal Springs concrete dam. W. I. stairway and platforms. Plan 1/2" to 1'.
- * 49c. Crystal Springs concrete dam. Details of platforms 1 1/2" to 1'.
- * 49d. Crystal Springs concrete dam. 44" water gate. Details 1 1/2" to 1'.
- * 50. Crystal Springs concrete dam. Howard cut. Plan and sections 1" to 100'.
- * 51. Crystal Springs pipe line profile. 1"-4000' and 1"-40'.
- * 52. Crystal Springs pipe line 6-mile house tunnel sections 1"-2'.
- * 53. Crystal Springs pipe line air valve 1"-3'.
- * 54. Stone dam Pilarcitos creek. Plan and sections 5' to 1" and 2' to 1'.
- * 55. Locks creek tunnel 1 and 2 sections; and flume at Pilarcitos stone dam and Locks creek flumes sections.
- * 56. Map of the Sunol filter system. 1"-1000'.
- * 57. Map aqueducts, flumes, tunnels, pipe line, Pleasanton to Belmont. 1"-1 mile.
- * 58. Map Laguna creek ditch and Sunol filter system. 1"-200'.
- * 59. Map of Sunol aqueduct and Niles aqueduct. 1"-500'.
- * 60. Details Niles screen Ho., Sunol flume and tunnel, Sunol dam, Forebay filter ditches.
- * 61. Details Niles dam. 1"-10'.
- * 62. Details 22" submarine pipe on Alameda pipe line.
- * 63. Profile new 54" Alameda pipe line. Condensed. Hor. 1"-800'. Ver. 1"-8'.
- 64. Belmont pumping station plans and elevations. Photographs of drawings, poster on cardboard.
- 65. Millbrae and Pilarcitos pumps. Same as exhibit 64.
- 66. Lake Merced and Crystal Springs pumping plants. Same as 64.
- 67. Black Point pumping plants 1 and 2 and Clarendon Heights pumping plant. Same as 64.
- * 68. Map of Lake Honda. Screen tanks to waste pond. 1"-80'.
- * 69. Lake Honda. Cross sections, etc., 1"-20' and 1"-5'.
- * 70. Lake Honda. Cross sections of masonry walls, etc., 1"-5'.
- * 71. Lake Honda. Forebay 1"-4'.
- * 72. University Mound reservoir. Contour plan. 1"-40'.
- * 73. College Hill reservoir. Contour plan. 1"-30'.
- * 74. Lombard street reservoir. Contour plan. 1"-20'.
- * 75. Plan Francisco St., reservoir. 1" 20'.
- * 76. Clarendon Heights Tank. Contour Plan. 1" 20'.
- * 77. Potrero Heights tank. Details plan. Large scale.
- * 78. Potrero Heights reservoir. Contour plan. 1"-20'.
- * 79. Presidio Heights tank. Foundation plan.
- 80. Presidio Heights tank. Plan and elevation. 1"-1'.
- * 81. Map of S. F. showing districts A. B. C. colored.
- 82. Plaster cast of relief map, of which Exhibit 12 is a photograph. (not brought to court.)

- * 83. Britton & Rey map showing proposed central pumping plant at Market and Buchanan streets and 22,000 feet of connecting tunnels.
- * 84. Map of properties in S. F. and Lake Merced lands. Britton & Rey map.
- * 85. Map showing present centers of population around S. F. bay, and probable future areas of dense population. 2 miles to 1 inch.
- 86. Sample of brickwork.
- 87. Sample of concrete.
- 88. Sample of concrete from Sunol dam.
- 89. Sample of street concrete.
- 90. Sample of masonry from Lake Merced canal.
- 91. Sample of brickwork from Pilarcitos waste way.
- 92. Methods of manufacturing iron for the following pipe lines: Original Pilarcitos and San Andreas 30" pipes; Crystal Springs 44" pipe line; 36" Alameda pipe lines; 44" San Andreas pipe line; new 54" Alameda pipe line.
- 93. Specifications for cast iron pipe for the S. V. W. W., March, 1902.
- 94. Amount of oil used at pumping plants, cost of same, weights of engines, pumps and boilers, efficiency of boilers, kind of lubricant used. Also daily capacities of Alameda creek pipe line and of upper tunnel section of Sunol aqueduct.
- * 95. Daily record of revolutions of Lake Merced pump during the year 1903.
- * 96. Daily record of gauging and contents of University Mound, and of flow over weirs at San Andreas and Pilarcitos.
- * 97. Daily record of depth of water in the Peninsula reservoir for the year 1903.
- 98. Photograph of 40" steel pipe in Cambridge, Mass., running parallel with electric railway tracks, showing plugs in holes made by electrolysis.
- 99. Photograph of 40" steel pipe in Cambridge, Mass., pitted by electrolysis.
- 100. Photograph of 40" steel pipe in Cambridge, Mass., showing method of patching holes and pits made by electrolysis.
- 101. Photograph of 40" steel pipe in Cambridge, Mass., pitted by electrolysis.
- 102. Certificate—"That upon payment for each of the shares hereinafter mentioned of the sum of \$58 (here follows method of payment in 3 installments) * * * * will be entitled to a certificate for shares of the stock of the S. V. W. W. of the new, or 8,000,000 issue. According to resolutions adopted at stockholders' meeting Mar. 17-20, 1868.
- 103. Deed, S. V. W. W. to S. V. W. Co., dated Sept. 14, 1903.
- 104. Investment of stockholders: S. F. City Water Works, 1858 to March 1, 1865; S. V. W. W., 1860 to March, 1865; Consolidated companies, S. V. W. W., March 1, 1865, to Dec. 31, 1904.
- 105. Statement of bonds outstanding. 1st, 2nd, 3rd issues and general mortgage.
- *106. Statement of net earnings of S. F. City Water Co. from October 1858 to January 1, 1865. (Typewritten sheet.)
- *107. Income Account, showing water scales, etc., and Contra charges to Operating Expenses and Dividends as charged prior to opening of Profit and Loss Acct. (July 1, 1878) and suggestions of Operating Expenses and Taxes that should have been charged. (Tracing.)
- *108. Summary of receipts from water sales, rents, etc., and disbursements in the way of operating expenses, together with interest paid on floating debt, coupon interest on bonds, dividends paid stockholders and taxes paid from July 1st, 1878, to Dec. 31st, 1904. (Tracing.)
- *109. Trial Balance and Balance Sheet of S. V. W. W. up to date of consolidation of two companies, say June 1, 1865. (Tracing.)
- *110. Sheet showing total coupon and floating debt interest (less trifling credits) from June 1, 1865, to Dec. 31, 1904, and accts. charged. (Tracing.)
- *111. Sheet showing amount at debit of construction acct. June 1, 1865, and charges and credits) to that acct. between said June 1, 1865, and June, 1878, and Sept. 30, 1880, and Jan. 21, 1889, at which date construction acct. was erroneously reduced by 4,329,407.86. This statement is independent of New Construction acct.—See Ex. (Tracing.)
- 112. Cost of laying cast iron pipe. Tables compiled by E. B. Weston, C. E.
- *113. Sheet showing charged (and credits) to permanent improvements, being New Construction acct. and other permanent Improvements acct., between June 30th, 1878 and Dec. 31st, 1904, and proof of the same by the books. This sheet is a supplement or addition to Exhibit 109. (Tracing.)
- *114. Salaries paid and how charged to income or Profit and Loss acct. (Tracing.)
- *115. Trial Balance of books of S. V. W. W. June 29, 1878. See balance book, page 96-99—Digest and balance sheet of S. V. W. W. books, June 29, 1878. (Tracing.)
- *116. Final balance of the books of the S. V. W. W. Co. as of Dec. 31, 1904, and balance sheets after retransferring the erroneous entry on J. 5, p. 196, and transferring an amount of OP. EXP. improperly charged to construction as testified to on pages 5361 to 5363 of the record. (Tracing.)
- 117. Pumping stations of the S. V. W. Co., H. Schussler, chief engineer. Accompanying report and estimates of W. R. Eckart. Part A. Book of estimates, photographs and plans.

118. Pumping stations of the S. V. W. Co., H. Schussler, chief engineer. Accompanying report and estimates of W. R. Eckart. Part B. Book of plans.
119. Pumping stations of the S. V. W. Co., H. Schussler, chief engineer. Accompanying report and estimates of W. R. Eckart. Part C. Details of estimates.
120. Tests and analyses of wrought iron plates (blue printed sheet) W. R. Eckart.
121. Book containing map of the properties of the S. V. W. Co. in San Francisco and the Lake Merced lands, showing subdivisions of said properties, etc. Introduced in the testimony of A. S. Baldwin, real estate expert.

LIST OF EXHIBITS FILED BY THE CITY OF SAN FRANCISCO (Defendant
IN THE SPRING VALLEY WATER WORKS VS. CITY AND COUNTY OF
SAN FRANCISCO No. 13395 AND SPRING VALLEY WATER COMPANY VS.
CITY AND COUNTY OF SAN FRANCISCO No. 13598.

(Note a star placed opposite to an exhibit indicates that a copy of the same is on file in the City's Attorney's office).

- * 1. Lands of the Clear Lake Water Works in Lake County.
 - * 2. Table showing acreage, valuation and taxes on lands at Searsville from 1888 to 1903.
 - * 3. Table showing valuation and taxes on the following lands for the years indicated
Locks Creek Line 1888-1904, Millbrae Reservoir, 1898-1904, Camp Howard, 1888-1904.
 - * 4. Reservoir site on Tuolumne River. Right of way application.
 - * 5. Lake Eleanor reservoir. Right of way application.
 - * 6. Lake Eleanor dam site.
 - * 7. Hetch-Hetchy reservoir site.
 - * 8. Hetch-Hetchy dam.
 - * 9. Canal line and watersheds.
 - *10. Pipe line across San Joaquin Valley.
 - *11. Pipe line Altamont to San Francisco.
 - *12. Inverted siphons on canal line.
 - *13. Profile of pipe line across San Joaquin Valley.
 - *14. Profile of pipe line Altamont pumping station to San Francisco.
 - *15. Altamont pumping station force pipe.
 - *16. Canal section.
 - *17. Tunnel sections, main line.
 - *18. Bear Gulch power station pipe line.
 - *19. Dry Creek power station.
 - *20. Dry Creek power station pipe line.
 - *21. Altamont pumping station.
 - *22. Altamont reservoir.
 - *23. Belmont reservoir.
 - *24. City distributing system, northwest one-quarter.
 - *25. City distributing system, northeast one-quarter.
 - *26. City distributing system, southwest one-quarter.
 - *27. City distributing system, southeast one-quarter.
 - *28. Section of Ocean Avenue tunnel.
 - *29. Section of end walls Ocean avenue tunnel.
 - *30. Section of Mission street tunnel.
 - *31. Manhole on Mission street tunnel.
 - *32. Receiving reservoir No. 1.
 - *33. Receiving Reservoir No. 2.
 - *34. Eighteenth street reservoir.
 - *35. Twenty-fourth street reservoir.
 - *36. Lone Mountain reservoir.
 - *37. Holly Park reservoir.
 - 38. University street reservoir.
 - 39. Ocean View reservoir.
- (Note: Nos. 4 to 39 inclusive are maps accompanying report on Tuolumne River project by C. E. Grunsky, July 28, 1902).
- *40. Map of the Bay Counties showing watersheds owned or claimed by the Spring Valley Water Company and the Bay Cities Water Company.
 - 41. Transcript of proceedings of the Superior Court of Pierce County, Washington, City of Tacoma vs. Tacoma Light and Water Company. Certified copy.
 - 42. Fourteenth annual report of the Commissioner of Labor, 1899. Water, Gas and Electric Light Plants.
 - 43. 1st annual report of the Metropolitan Water Board, Jan. 1, 1896.
 - 44. 2nd annual report of the Metropolitan Water Board, Jan. 1, 1897.
 - 45. 3d annual report of the Metropolitan Water Board, Jan. 1, 1898.
 - 46. 4th annual report of the Metropolitan Water Board, Jan. 1, 1899.
 - 47. 5th annual report of the Metropolitan Water Board, Jan. 1, 1900.
 - 48. 6th annual report of the Metropolitan Water Board, Jan. 1, 1901.

49. 1st annual report of the Metropolitan Water and Sewerage Board, Jan. 1, 1902.
50. 2d annual report of the Metropolitan Water and Sewerage Board, Jan. 1, 1903.
51. 3d annual report of the Metropolitan Water and Sewerage Board, Jan. 1, 1904.
52. Water rules, regulations and rates of the Pasadena Land and Water Company. Also copy of Resolution No. 1076 of the Board of Trustees of Pasadena fixing water rates.
53. Resolution of the Board of Trustees of Pasadena. Resolution fixing water rates. (Copy).
54. Contract between Southern California Mountain Water Company and the City of San Diego. Company to deliver water in distributing reservoirs owned by San Diego for 4 cents per 1000 gallons. (Certified copy).
55. Report on the value of the plant and Water Supply of the North Pasadena Land and Water Company by James D. Schuyler, Consulting Engineer. (Certified copy).
56. Cost of engines at the Spring Valley Water Works. Pumping stations. Estimate by W. R. Eckart.
57. Details, diagrams and photographs of pumping plants. Notes by W. R. Eckart.
58. Agreement between Robert Higgins and the Spring Valley Water Works, dated October 9, 1883, relative to the construction of "a tunnel from a point on the north side of Visitacion Valley to a point near the junction of Bowdoin and Dwight streets in South San Francisco.
- *59. Blue Print entitled "Bay Cities Water Company, discharge diagram for Uvas Creek on Catherine Dunn Ranch, Santa Clara County, California, July 30, 1904, San Francisco office, September 1, 1903, to August 31, 1904.
60. Photograph. Rivetted pipe on trestle within limits of County Road in Alameda County, California, between Alvarado and Mt. Eden. Photo by Edwin Duryea, Jr., April 16, 1903.
61. Report of the City of San Francisco, California, issued by the National Board of Fire Underwriters, Committee of Twenty.
62. Municipal reports of San Francisco for 1900-1901.
63. Bottle containing water taken from Lake San Andreas Dec. 5, 1903, 11.15 a. m.
64. Bottle containing water taken from Pilarcitos, Dec. 5, 1903, 1.30 p. m.
65. Bottle containing water taken from Crystal Springs Dec. 5, 1903, 3.30 p. m.
66. Bottle containing water taken from Lake Merced, Dec. 8, 1903.
67. Bottle containing water from Tuolumne River. Sample No. 1.
68. Bottle containing water from Tuolumne River. Sample No. 2.
- *69. Diagram No. 3 showing amount invested in water works of cities per million gallons daily delivery.
- *70. Diagram No. 4, showing amount invested per million gallons daily capacity.
- *71. Diagram No. 2, showing actual receipts of water works per million gallons delivered.
- *72. Diagram No. 1, showing actual receipts of water works per consumer.
- *73. Table No. 1, statistics of water supplies in Cities of the United States having municipal water works.
- *74. Diagram No. 9, showing expenses of operating and maintenance of water works, per million gallons delivered.
- *75. Diagram No. 10, showing amount invested per mile of mains.
- *76. Diagram No. 11, showing amount invested per consumer.
- *77. Diagram No. 12, showing actual total ordinary receipts of water works.
- *78. Table No. 2, showing theoretical receipts if plants were privately owned.
- *79. Diagram No. 5, showing theoretical receipts per million gallons.
- *80. Diagram No. 6, showing theoretical receipts per consumer.
- *81. Diagram No. 13, showing theoretical total receipts of water works if plants were privately owned.
- *82. Table No. 3, comparison of actual and theoretical receipts of water works.
- *83. Diagram No. 7, showing comparison of actual and theoretical receipts per consumer.
- *84. Diagram No. 8, showing comparison of actual and theoretical rates per million gallons delivered.
- *85. Average cost of salaries and wages per million gallons of water furnished—based upon data collected from 309 private plants and 492 municipal plants by the U. S. Commission of Labor for the year ending 1898. 14th annual report, 1899, p. 31. Tables and diagrams. Blue print.
- *86. Map entitled "Rainfall distribution near San Francisco by C. E. Grunsky, City Engineer, Nov. 1903." Shows watersheds of Spring Valley streams, and watershed on which the Bay Cities Water Company claims the flood waters on Alameda Creek.
- *87. Average mean monthly flow of Tuolumne River at La Grange for 9 years from 1896 to 1904 inclusive.
- *88. Profile of San Mateo Dam (Crystal Springs Concrete Dam) and profiles of various types of masonry dams. Drawn to show relative areas of cross sections. Blue print.
- *89. "Composite Dam Sections"—showing San Mateo Dam at the proposed height for which originally designed compared with other sections of dams.

- *90. "Composite Dam Sections"—showing San Mateo Dam at present height compared with other sections of dams. Blue line print.
- 91. Map showing lands of the Spring Valley Water Company in the peninsula reservoir system comprising the lands in the Crystal Springs, San Andreas and Pilarcitos reservoir systems.
- *92. "Run-off Curves (revised) showing probable annual run-off in its relation to total annual rainfall. By C. E. Grunsky, City Engineer, San Francisco, Feb. 1904." Blue line print. Shows curves for Sierra Nevada and for Coast Range.
- 93. Map showing lands of the Spring Valley Water Company in Calaveras Valley, Alameda and Santa Clara County.
- 94. Lands in the vicinity of Pleasanton Wells and Sunol filter beds. Shows lands acquired from the Suburban Co.
- 95. Map showing water rights, lands and rights of way acquired by Spring Valley Water Works on Alameda Creek. Also the "Key Map" of lands in Alameda County.
- 96. Lands in Real Estate of the Spring Valley Water Company in San Francisco.
- *97. Spring Valley Water Company. Report of A. Wenzelburger, gives permanent improvements for 1901-1902 and 1903, and operating expenses for 1901, 1902 and 1903.
- *98. Spring Valley Water Company operating expenses 1901. A. Wenzelburger, 1902, 1903.
- *99. Spring Valley Water Company permanent improvements 1901, 1902 and 1903. A. Wenzelburger.
- *100. Spring Valley Water Company. Second report of A. Wenzelburger.
- *101. Spring Valley Water Works and Spring Valley Water Company construction accounts, 1860 to 1904; income and profit and loss account 1860 to 1904; sundry trial balances. A. Wenzelburger.
- *102. Spring Valley Water Company, salaries 1901, 1902 and 1903 Crystal Springs Dam Account 1886 to 1895, inclusive. A. Wenzelburger.
- *103. Map of lower end of Livermore Valley, Alameda County, Cal., showing contours of water level and location of wells. Prepared from official maps and original surveys by F. H. Tibbetts.
- *104. Section of lower end of Livermore Valley along line of main underground flow. Prepared by F. H. Tibbetts.
- *105. Diagram showing fluctuation in water plane level in wells in the vicinity of Pleasanton, California, September-December, 1905. Prepared by F. H. Tibbetts.
- 106. Photograph of well in Rancho del Valle taken in Nov. 1901 showing water flowing from same.
- 107. Photograph of well in same group as that shown in Exhibit 106, taken November 1905. Water level 7 feet below surface of ground.

LIST OF MAPS AND PLANS MOUNTED ON JENKINS MAP ROLL.

14 sheets, 7'x7', containing 96 maps, plans, copies of exhibits, etc., as follows:
Sheet No.

- 1. Complainant's Exhibit 8:
Rainfall and runoff. Alameda System.

Complainant's Exhibit 21:
Map entire Spring Valley Water Works System, both sides bay, 1", 1 mile.
- Complainant's Exhibit 22:
Profile entire Spring Valley Water Works system. Both sides bay, 1"-2000 and 1" 40'.
- 2. Complainant's Exhibit 23:
Britton & Rey Map of San Francisco Distributing reservoirs and some mains.

Complainant's Exhibit 24:
Britton & Rey Map of San Francisco Streets covered by city pipe system.
- Complainant's Exhibit 25:
Britton & Rey Map (5 colors) high and low levels districts in San Francisco.
- Complainant's Exhibit 26:
Britton & Rey Map main arteries in San Francisco, 44" to 12".
- Complainant's Exhibit 81:
Map of San Francisco showing Districts A, B, C, colored.
- Complainant's Exhibit 83:
Britton & Rey Map showing proposed central pumping plant at Market and Buchanan streets, and 22,000 feet of connecting tunnels.

3. Complainant's Exhibit 10:
Britton & Rey Map of San Francisco, Spring Valley Water Works reservoirs.
- Complainant's Exhibit 11:
Lake Merced Lands, 2730A, in San Francisco, 1905A, 825A in San Mateo.
- Complainant's Exhibit 19:
Map. Lands in Peninsula reservoir system.
- Complainant's Exhibit 68:
Map of Lake Honda. Screens tanks to waste pond. 1", 80'.
- Complainant's Exhibit 84:
Map of properties in San Francisco and Lake Merced lands. Britton & Rey Map.
- Complainant's Exhibit 85:
Map showing present centers of population around San Francisco Bay and probable future areas of dense population, 2 miles to 1".
4. Complainant's Exhibit 12:
Photograph of Relief Map of Southern part of Bay of San Francisco.
- Complainant's Exhibit 56:
Map of the Sunol filter system. 1"—1000'.
- Complainant's Exhibit 57:
Map aqueducts, flumes, tunnels, pipe lines, Pleasanton to Belmont. 1"—1 mile.
- Complainant's Exhibit 58:
Map Laguna Creek ditch and Sunol filter system. 1"—2000'.
- Complainant's Exhibit 59:
Map of Sunol aqueduct and Niles aqueduct. 1"—500'.
5. Complainant's Exhibit 20:
Map reservoirs, existing and proposed. Tables of capacities.
- Complainant's Exhibit 28:
Pilarcitos Dam. Plan and longitudinal section. 1"—40'.
- Complainant's Exhibit 29:
Pilarcitos Dam. Cross sections. Small scale.
- Complainant's Exhibit 30:
Pilarcitos dam cross sections. Large scale. 1"—20".
- Complainant's Exhibit 35:
San Andreas dam. Plan 1"—40'.
- Complainant's Exhibit 36:
San Andreas dam. Typical cross section. 1"—40'.
- Complainant's Exhibit 37:
San Andreas dam longitudinal section 1"—40'.
- Complainant's Exhibit 38:
San Andreas dam cross sections. 1"—100'.
- Complainant's Exhibit 43:
Upper Crystal Springs dam. 1"—40'.
- Complainant's Exhibit 44:
Upper Crystal Springs dam. Typical cross section. 1"—40'.
- Complainant's Exhibit 45:
Upper Crystal Springs dam, longitudinal cross section. 1"—40'.
- Complainant's Exhibit 46:
Upper Crystal Springs dam. Cross sections. 1"—100'.
- Complainant's Exhibit 47:
Crystal Springs concrete dam. Contour map of foundation. 1"—20'.
- Complainant's Exhibit 48:
Crystal Springs concrete dam. Cross sections and proposed addition. 1"—20"

6. Defendant's Exhibit 4. Tuolumne Sheet 1:
Reservoir site on Tuolumne river. Right of way application.
- Defendant's Exhibit 5. Tuolumne Sheet 2:
Lake Eleanor reservoir. Right of way application.
- Defendant's Exhibit 6. Tuolumne Sheet 3:
Lake Eleanor dam site.
- Defendant's Exhibit 7. Tuolumne Sheet 4:
Hetch Hetchy reservoir site.
- Defendant's Exhibit 8. Tuolumne Sheet 5:
Hetch Hetchy dam.
- Defendant's Exhibit 9. Tuolumne Sheet 6:
Canal line and watersheds.
- Defendant's Exhibit 10. Tuolumne Sheet 7.
Pipe line across San Joaquin Valley.
7. Defendant's Exhibit 11. Tuolumne Sheet 8:
Pipe line Altamont to San Francisco.
- Defendant's Exhibit 12. Tuolumne Sheet 9:
Inverted siphons on canal line.
- Defendant's Exhibit 13. Tuolumne Sheet 10:
Profile of pipe line across San Joaquin Valley.
- Defendant's Exhibit 14. Tuolumne Sheet 11.
Profile of pipe line Altamont pumping station to San Francisco.
- Defendant's Exhibit 15. Tuolumne Sheet 12:
Altamont pumping station force pipe.
- Defendant's Exhibit 16. Tuolumne Sheet 13:
Canal section.
- Defendant's Exhibit 17. Tuolumne Sheet 14:
Tunnel sections, main line.
- Defendant's Exhibit 18. Tuolumne Sheet 15:
Bear Gulch power station pipe line.
- Defendant's Exhibit 19. Tuolumne Sheet 16:
Dry Creek power station.
8. Defendant's Exhibit 20. Tuolumne Sheet 17:
Dry Creek power station pipe line.
- Defendant's Exhibit 21. Tuolumne Sheet 18:
Altamont pumping station.
- Defendant's Exhibit 22. Tuolumne Sheet 19:
Altamont reservoir.
- Defendant's Exhibit 23. Tuolumne Sheet 20:
Belmont reservoir.
- Defendant's Exhibit 28. Tuolumne Sheet 25:
Section of Ocean Avenue tunnel.
- Defendant's Exhibit 29. Tuolumne Sheet 26:
Section of end walls Ocean Avenue tunnel.
- Defendant's Exhibit 30. Tuolumne Sheet 27:
Section of Mission street tunnel.
- Defendant's Exhibit 31. Tuolumne Sheet 28.
Manhole on Mission street tunnel.
- Defendant's Exhibit 32. Tuolumne Sheet 29:
Receiving reservoir No. 1.

- Defendant's Exhibit 33. Tuolumne Sheet 30:
Receiving reservoir No. 2.
- Defendant's Exhibit 34. Tuolumne Sheet 31:
Eighteenth street reservoir.
9. Defendant's Exhibit 24. Tuolumne Sheet 21:
City distributing system, northwest one-quarter.
- Defendant's Exhibit 25. Tuolumne Sheet 22:
City distributing system, northeast one-quarter.
- Defendant's Exhibit 26. Tuolumne Sheet 23:
City distributing system, southwest one-quarter.
- Defendant's Exhibit 27. Tuolumne Sheet 24:
City distributing system, southeasterly one-quarter.
- Defendant's Exhibit 35. Tuolumne Sheet 32:
Twenty-fourth street reservoir.
- Defendant's Exhibit 36. Tuolumne Sheet 33:
Lone Mountain reservoir.
- Defendant's Exhibit 37. Tuolumne Sheet 34:
Holly Park reservoir.
10. Defendant's Exhibit 40:
Map of the Bay Counties showing watersheds owned or claimed by the Spring Valley Water Company and the Bay Counties Water Company.
- Defendant's Exhibit 86:
Map entitled "Rainfall Distribution near San Francisco Bay. By C. E. Grunsky, City Engineer, Nov. 1903." Shows watersheds of Spring Valley streams and water sheds on which the Bay Cities Water Company claims the flood water on Alameda Creek.
- Defendant's Exhibit 88:
Profile of San Mateo dam (Crystal Springs concrete dam) and profile of various types of masonry dams. Drawn to show relative areas of cross sections. Blue print.
- Defendant's Exhibit 90:
"Composite Dam Sections"—showing San Mateo dam at present height compared with other sections of dams. Blue line print.
- Defendant's Exhibit 92:
"Run-off curves (revised) showing probable annual run-off in its relation to total annual rainfall. By C. E. Grunsky, City Engineer, San Francisco, February, 1904." Blue line print. Shows curves for Sierra Nevada and for Coast Range.
11. Defendant's Exhibit 69:
Diagram No. 3, showing amount invested per million gallons daily delivery.
- Defendant's Exhibit 70:
Diagram No. 4, showing amount invested per million gallons daily capacity.
- Defendant's Exhibit 71:
Diagram No. 2, showing actual receipts of water works per million gallons delivered.
- Defendant's Exhibit 72:
Diagram No. 1, showing actual receipts of water works per consumer.
- Defendant's Exhibit 73:
Table No. 1, statistics of water supplies in cities of the U. S. having municipal Water works.
- Defendant's Exhibit 78:
Table No. 2, showing theoretical receipts if plants were privately owned
- Defendant's Exhibit 80:
Diagram No. 6, showing theoretical receipts per consumer.
- Defendant's Exhibit 82:
Table 3, comparison of actual and theoretical receipts of water works.

Defendant's Exhibit 83:
Table 7, showing comparison of actual and theoretical receipts per consumer.

Defendant's Exhibit 84:
Diagram No. 8, showing comparison of actual and theoretical rates per million gallons delivered.

Defendant's Exhibit 85:
Average cost of salaries and wages per million gallons of water furnished; based upon data collected from 309 private plants and 492 municipal plants by the U. S. Commissioner of Labor for the year ending 1898. 14th Annual Report, 1899, p. 31. Tables and diagrams. Blue print.

12. Defendant's Exhibit 74:
Diagram No. 9, showing expenses of operating and maintenance of water works, per million gallons delivered.

Defendant's Exhibit 75:
Diagram No. 10, showing amount invested per mile of mains.

Defendant's Exhibit 76:
Diagram No. 21, showing amount invested per consumer.

Defendant's Exhibit 77:
Diagram No. 21, showing actual total ordinary receipts water works.

Defendant's Exhibit 81:
Diagram No. 13, showing theoretical total receipts of water works if plants were privately owned.

Defendant's Exhibit 87:
Average mean monthly flow of Tuolumne River at La Grange for 9 months from 1896 to 1904, inclusive.

Map of Tuolumne River watershed (U. S. Geol. Survey Sheets).

Map of Lake Eleanor and Hetch Hetchy Reservoir Sites.

13. Map of line of proposed Tuolumne Canal (6 sections).
14. Official Map of San Mateo Co. Compiled and drawn by D. Davenport Bromfield. 1894.

NOTE.—Three indices to the map roll were prepared:

1. Alphabetical index.
2. List of Exhibits mounted, in order of exhibit numbers.
3. Index by sheets, of which the foregoing is a copy.

LIST OF MAPS, PLANS, ETC., USED IN THE DEFENSE OF THE SUIT OF THE S. V. W. CO. VS. THE CITY AND COUNTY OF SAN FRANCISCO.

NOTE.—This list does not include any copies of exhibits, or any maps mounted upon the map roll, these having been already included in other lists.

Official map of San Mateo Co., compiled and drawn by D. Bromfield, County Surveyor; in 4 sections, 2 copies, blue line prints, also negative.

Map showing Alameda Creek from Sunol to S. F. Bay; prepared under the direction of J. H. Dockweiler (blue line print, tracing and negative).

Alameda Creek near Sunol (negative and blue line print).

Blank map, same as general map of S. V. W. W. (exhibit 21); blue line print.

Two negatives of general map of S. V. W. W. (exhibit 21); tracing of same.

Properties of S. V. W. W. in San Mateo Co.; prepared by C. E. Grunsky, 1904; tracing and negative.

Properties of S. V. W. W. in Alameda and Santa Clara Counties; prepared by C. E. Grunsky, City Engineer, January, 1904; tracing and negatives and blue line print.

Three geological survey sheets; vicinity of S. F. bay.

One geological survey sheet showing Tuolumne River near its source (Dardanelles sheet).

Total pipe mileage of S. V. W. Co.'s City Distributing System arranged by years from 1855 to 1892 (tracing).

Profiles of Crystal Springs and Alameda Pipe Lines (tracing).

Profile of Pilarcitos Pipe Line (tracing)

- Rainfall distribution near San Francisco, map by C. E. Grunsky, November, 1903 (tracing and negative).
- Copy of statistical map filed by S. V. W. W. with the Clerk of the Board of Supervisors of S. F., February 14, 1893 (tracing).
- Official map of Alameda Co., by G. F. Allardt, 1874 (engraving and negative and blue line print).
- City Water Supply; map of Spring Valley and Pescadero Divisions, T. R. Scowden, 1875 (negative).
- Rancho el Valle de San Jose, south half; blue line print.
- Tuolumne sheets; negatives of Nos. 4, 16, 5, 15, 17, 3, 2, 1, 9, 6.
- Tuolumne sheets; blue prints of Nos. 1, 17.
- Map of canal line; 6 sheets; negatives.
- Tuolumne sheets; blue line prints of Nos. 6, 12.
- Sketch map showing Lake Eleanor and Hetch Hetchy Valley reservoir sites (2 blue line prints, tracing and negative).
- Sketch map of Calaveras and Del Valle watersheds; incomplete (tracing).
- Lands owned by S. V. W. Co. in watersheds of Bay Cities Water Co.
- Miscellaneous sections and details of Crystal Springs dam.
- Miscellaneous tracings used in compiling maps of S. V. W. Co.'s lands.
- Assessor's valuations of S. V. W. W., 1902.
- Map showing present centers of population around the bay (3 blue line prints).
- Details of Presidio Heights tank; 4 blue prints.
- Map showing Alameda System Watershed and part of Bay Cities (incomplete).
- Geological Survey sheet showing part of the watersheds of the Alameda System and of the Bay Cities Water Co.
- Plan of Pilarcitos Dam accompanying contract with J. S. Emery.
- General map of Sierra Nevada projects (negative).
- Gate Tower and outlet pipes, etc., at Crystal Springs concrete dam.
- Range of bids on contract work (tracing and blue print).
- Map of region of S. F. bay; mounted geological sheets.
- Map of S. F.; large blue line print.

Lighting Streets and Public Buildings.

LIGHT, HEAT AND POWER RATES, 1905-06.

The Charter of the City and County of San Francisco, Article II, Chapter II, Sec. 1, Sub. 14, empowers the Board of Supervisors "to fix and determine by Ordinance, in the month of February of each year, to take effect on the 1st day of July thereafter, the rates of compensation to be collected by any person, company or corporation in the City and County, for the use of water, heat, light or power supplied to the City and County, or to the inhabitants thereof, and to prescribe the quality of the service."

In order that the Board of Supervisors might obtain information upon which to intelligently fix the rates or compensation to be collected by any person, company or corporation, for the use of gas or electric light or power supplied to the City and County, or the inhabitants thereof, for the year commencing July 1, 1905, the Board, on January 9, 1905, adopted the following Resolution, "requiring persons, companies and corporations furnishing heat, light or power, to furnish information as to the revenue derived, the expenditure and the cost of the plant, etc.," viz.:

RESOLUTION NO. 5436.

Resolved, that the San Francisco Gas and Electric Company, Martel Power Company, Central Light and Power Company, Mutual Electric Light Company, United Railroads of San Francisco, Pacific Power Company, Standard Electric Company, California Light and Power Company, Pacific Lighting Company, Mills Building, Occidental Hotel, Crane Company, California Central Gas and Electric Company, California Gas and Electric Corporation, California Mill Company, California Electric Light Company, California Light and Fuel Company, California Wine Association, D. Ghirardelli Company, Halleck block, Pacific Sheet Metal Works, San Francisco Coke and Gas Company, Sutro Baths, United Pacific Power Company, United Gas and Electric Company, Welsbach Street Lighting Company of America, Fair Estate and all other persons, companies and corporations supplying heat, light or power to this city and county, or the inhabitants thereof, are hereby required to furnish this Board, on or before January 31, 1905, with the following information, to-wit:

First—A detailed statement showing all revenue derived by such person, company or corporation supplying heat, light or power, from all sources, for the year ending December 31, 1904.

Second—An itemized statement showing all expenditures made for the manufacture and supply of heat, light or power for the year ending December 31, 1904.

Third—The original cost and the estimated present value of the plant used for the manufacture and supply of heat, light or power.

Fourth—If it be a company or corporation, the amount of capital stock of the company or corporation outstanding; the amount of the bonds of the company or corporation outstanding, and the amount of the floating debt of the company or corporation.

The above statements to be verified by oath of the president of such company or corporation, or of such person, as the case may be.

The object of this inquiry is in order that this Board may obtain information upon which to fix and determine, in the month of February, the rates or compensation to be collected by any person, company or corporation in this City and County for the use of heat, light or power supplied to this City and County, of the inhabitants thereof, and to prescribe the quality of the service, as provided under the provisions of the new Charter of the City and County of San Francisco, Article II, Chapter II, Section I, Subdivision 14, under the title "Powers of Supervisors."

Further Resolved, That the Clerk of this Board be and is hereby directed to forthwith serve a certified copy of this Resolution upon the president and secretary of each company or corporation, or upon such person, hereinbefore named, and upon all other companies or corporations, or such persons, as the case may be, furnishing heat, light or power to this City and County, or the inhabitants thereof.

EXHIBIT NO. 1.

STATEMENTS OF THE COMPANIES FURNISHING HEAT, LIGHT AND POWER
TO THE CITY AND COUNTY OF SAN FRANCISCO AND THE INHABITANTS THEREOF. 1904.

To Honorable E. E. Schmitz, President, and the Honorable Board of Supervisors,
Of the City and County of San Francisco.

Gentlemen—Pursuant to your request as detailed in Resolution No. 5436 the San Francisco Gas and Electric Company begs to submit the following statement for the year 1904:

First—Revenue:			
From sales of gas.....		\$2,469,356.38	
From sales of electric current.....		1,791,362.69	
All other sources.....		136,140.01	
			\$4,396,859.08
Second—Cost:			
Gas.....		1,951,924.15	
Electric current.....		1,379,501.18	
			3,331,425.33
Net profits.....			1,065,433.75
Dividends paid.....			792,421.68
			273,012.07
Third—Original cost of plant:			
Gas.....		9,887,847.33	
Electric.....		3,154,731.22	
			13,042,578.55
Present cost of plant:			
Gas.....			
Plant.....	9,385,359.47		
Pipes.....	7,103,414.26		
Meters.....	869,881.76		
Lamps.....	81,114.88		
		17,439,770.37	
Electric.....			
Plant.....	6,415,864.85		
Conduits.....	1,982,036.91		
Meters.....	216,084.49		
		8,613,986.25	26,053,756.62
Present value of plant.....		\$26,053,756.62	
Fourth:			
Capital stock outstanding.....		\$15,794,284.36	
Amount of bonds outstanding.....		9,813,000.00	
Amount of floating debt (net).....		816,934.19	

Respectfully submitted,

SAN FRANCISCO GAS AND ELECTRIC COMPANY,

W. N. BOURN, President.

San Francisco, January 31, 1905.

To the Honorable the Board of Supervisors,
Of the City and County of San Francisco.

Gentlemen—In reply to your notice to comply with Resolution No. 5436. The surplus electricity generated by the House plant of the Mills Building is distributed and sold by H. H. Taylor, who obtained the street privileges for the conduit and who sells under a merchandise license, as required by the License Collector.

The following figures for 1904 are only approximate, but are as close as it is possible to arrive at the figures for the purpose indicated by you, the general plant from which the distributing system derives its current being a part and inseparable from the Mills Building:

LIGHTING STREETS AND PUBLIC BUILDINGS 525

First—Revenue:		
Receipts from sale of electricity.....	\$1,822.20	
Receipts from sale of electric supplies.....	4.80	
		\$1,827.00
Second—Expenditures:		
Fuel consumed.....	600.00	
Maintenance, taxes, supplies.....	132.28	
		732.28
		1,094.72
Third—The original cost of distributing plant was.....		10,000.00
Its estimated value is.....		500.00
Fourth—The distribution and sale of electricity is conducted by an individual, and there is no capital stock; there are no bonds upon the plant; there is no floating debt.		

STATE OF CALIFORNIA,

City and County of San Francisco—ss.

H. H. Taylor being duly sworn deposes and says that the foregoing statement is true and correct.

H. H. TAYLOR.

Subscribed and sworn to before me this

21st day of January, 1905.

HENRY B. LISTER,

Notary Public in and for the City and County of San Francisco,
State of California.

STATEMENT OF THE MARTEL POWER COMPANY FOR THE YEAR COMMENCING JANUARY 1, 1904, AND ENDING DECEMBER 31, 1904.

Received for rent, power and steam.....	\$28,697.05
Expended in the manufacture of said power and steam—	
Rent.....	\$3,072.00
Salaries.....	8,254.70
Fuel and oil.....	583.70
Water.....	149.80
Hauling ashes.....	445.00
Henry Cowell.....	1,265.41
Insurance and taxes.....	906.00
Interest.....	1,289.04
Repair.....	908.40
Incidentals.....	614.76
	\$17,488.81
Expended in construction.....	321.49
Cost of plant.....	50,000.00
A corporation.	
No bonds.	
37,500 shares outstanding.	
Indebtedness about, \$15,000.00.	

San Francisco, January 30, 1905.

Honorable Board of Supervisors,
San Francisco, California.

Gentlemen—This is to certify that the above statement of the Martel Power Company is correct.

Yours very truly,

MARTEL POWER COMPANY.

J. W. PAUSON, President.

CHARLES W. FAY, Esq., Clerk of the Board of Supervisors,
San Francisco, Cal.

Dear Sir: We are in receipt of your favor of Jan. 8th, notifying us to submit a statement showing the revenues and expenses of the power plants belonging to Virginia Vanderbilt. We are unable to give you the original cost, but we estimate the present value of the two plants to be about \$10,000.

526 LIGHTING STREETS AND PUBLIC BUILDINGS

The expenses of the Pine and Sansome streets power plant for 1904 were as follow s

Fuel.....	\$2,813.61
Wages.....	3,630.00
Repairs.....	2,426.70
<hr/>	
Making the total expenditure.....	8,870.31
Received from all sources for light, heat and power.....	3,520.00

The expenses for the Pacific and Front streets power plant for the year 1904 were as follows:

Fuel.....	\$5,049.43
Wages.....	2,430.00
Repairs.....	1,058.39
<hr/>	
Total expenses.....	\$8,537.82
Received for power supplied by this plant.....	5,784.85

You can see from this statement that we are not making any profit on these power plants, and under the existing circumstances it cannot be done.

Respectfully yours,

THOMAS MAGEE & SONS.

STATEMENT OF OCCIDENTAL HOTEL.

An itemized statement showing all expenditures made by the Occidental Hotel for the manufacture and supply of heat, light and power in the operation of the plant connected with the same from Jan. 1st, 1904, to Jan. 1st, 1905.

	Coal	Fuel Oil	Lubricating Oil	Labor	Lights, etc
January.....	626.40	106.50	14.00	365.00	33.01
February.....		372.75	29.16	365.00	29.16
March.....		355.00		365.00	57.64
April.....		337.75	16.75	365.00	72.54
May.....		332.00	10.00	365.00	141.03
June.....		319.48	6.00	365.00	78.33
July.....		323.00	6.00	365.00	97.41
August.....		319.99	8.40	365.00	78.44
September.....		359.48	39.75	365.00	56.28
October.....		358.48	8.40	365.00	92.07
November.....		350.08	6.00	365.00	86.38
December.....		446.48	6.00	365.00	188.79
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	\$626.40	\$3,960.99	\$135.30	\$4,380.00	\$1,011.09

RECAPITULATION.

Coal.....	626.40
Fuel oil.....	3,960.99
Lubricating oil.....	135.30
Labor.....	4,380.00
Lights, etc.....	1,011.09
<hr/>	
Total.....	\$10,113.78

The amount disbursed for labor as shown above is apportioned as follows: One engineer at a salary \$100 per month; one electrician at a salary of \$85 per month, three firemen at a salary of \$60 per month each with board.

GEORGE W. HOOPER,

Lessee.

LIGHTING STREETS AND PUBLIC BUILDINGS 527

STATEMENT OF THE CENTRAL LIGHT AND POWER COMPANY FOR THE
YEAR COMMENCING JANUARY 1st, 1904, AND ENDING
DECEMBER 31st, 1904.

Revenue derived by sale of electric current and steam.....	\$98,623.61
Expenditure in the manufacture of said electric current and steam—	
Fuel.....	\$27,562.30
Salaries, engine room.....	18,792.86
Salaries, office.....	3,890.00
Salaries, meter dept. and outside.....	4,357.50
Expenses, engine room.....	4,571.55
Expenses, office.....	1,288.32
Expenses, outside.....	835.37
Water.....	2,889.74
Carbon.....	600.00
Insurance and taxes.....	2,200.00
	\$ 66,987.64
Expense in construction.....	\$ 27,512.40
Original cost of plant.....	\$238,600.00
A corporation,	
Outstanding shares, 70,000.	
No bonds,	
Floating indebtedness, \$3,000.00.	

San Francisco, January 30th, 1905.

Honorable Board of Supervisors,
San Francisco, California.

Gentlemen—This is to certify that the above statement of the Central Light and Power Company is correct.

Yours very truly,

CENTRAL LIGHT AND POWER COMPANY.

J. W. PAUSON, Secretary.

San Francisco, January 31st, 1905.

To the Honorable Board of Supervisors,
of the City and County of San Francisco, Cal.

Gentlemen—In answer to your request for information called for by Resolution No. 5436, adopted by your Honorable Board at meeting held on January 9th, 1905, we beg to submit the following:

FIRST: Our revenue for the twelve (12) months ending December 31st, 1904, was as follows:

1. From light and power service.....	\$116,173.61
2. From miscellaneous sources.....	243.10

SECOND: Our expenditure for the manufacture and supply of heat, light and power during the twelve (12) months ending December 31st, 1904, were as follows:

1. General expense.....	\$24,415.20
2. Manufacturing.....	59,088.16
3. Distribution.....	11,464.27
	\$94,967.63

THIRD:

1. Original cost of plant used for the manufacture of heat, light and power.....	\$ 479,787.27
2. Present value. Impossible to estimate.	

FOURTH: The capital stock of the company amounts to \$500,000, in 50,000 shares at \$10 each. Of these shares 41,250 have been issued.

BONDS: Outstanding (proceeds used for construction of a new plant and not included in above) December 31st, 1904..... \$193,000.00
Floating indebtedness December 31st, 1904..... 10,478.58

Respectfully,

MUTUAL ELECTRIC LIGHT CO.

W. R. SUMMERHAYES,

Vice President and Gen. Mgr.

The following persons, companies and corporations have filed communications informing the Board that they are not engaged in the business of furnishing, heat light or power, to-wit:

San Francisco Coke and Gas Company.
 United Railroads of San Francisco.
 California Gas and Electric Corporation.
 Standard Electric Company.
 United Gas and Electric Company.
 California Central Gas and Electric Company.
 Welsbach St. Lighting Company.
 Fair Estate.
 California Electric Light Company.
 Halleck Block.
 Pacific Lighting Company.
 Pacific Power Company.
 United Pacific Power Company.
 Pacific Sheet Metal Works.
 D. Ghirardelli Company.
 California Wine Association.
 California Light and Fuel Company.
 Estate of Adolph Sutro.

In connection with the investigation the following statements were filed:

EXHIBIT No. 2.

DETAILED STATEMENT OF COST OF PRODUCTION AND DISTRIBUTION
 OF GAS FOR THE YEAR 1903 and 4.

GAS.

COST OF PRODUCTION YEAR ENDING DEC. 31, 1904.

Basis of cubic feet sold.

Manufacturing Cost.

MANUFACTURING COST.

Operating:

Generator fuel	Anthracite coal used.....	\$303,508.70	.12309
Boiler fuel	Foreign coke used.....		
	Sundries.....	12,288.79	.00499
		<u>315,797.49</u>	<u>.12808</u>
Less residuals,.....		17,269.38	.00700

		298,528.11	.12108
Gas oil used.....		249,850.61	.10133
Water.....		7,313.51	.00297
Purifying materials used.....		3,717.61	.00150
Works supplied.....		6,842.57	.00277
Works expense.....		32,533.66	.01319
Gas purchased to Aug. at 30c.....		38,988.00	.01583
Mfg. Wages (not including repairs).....		106,802.80	.04331

Total..... \$744,576.87 .30198

Repairs and Maintenance:

Repairs Buildings, Bunkers and Wharves.....	\$ 8,871.89	.00360
Repairs Engines, Blowers and Pumps.....	17,552.11	.00712
Repairs Generators and Retorts.....	21,877.93	.00887
Repairs Holders.....	1,517.12	.00061
Repairs Scrubbers, Condensers and Purifiers	6,107.47	.00248
Repairs Oil Apparatus	2,496.48	.00101
Repairs Mfg. Plant (Miscellaneous).....	14,255.12	.00577
	<u>\$72,678.12</u>	

Total..... .02946

Total Manufacturing Cost..... \$817,254.99 .33144

LIGHTING STREETS AND PUBLIC BUILDINGS 529

Distribution cost:		
Distribution Supplies.....	\$ 8,206.81	.00332
Distribution Expense.....	10,577.92	.00428
Distribution Wages (not inc. Repairs).....	69,521.76	.02821
Setting and Removing Meters.....	7,108.89	.00292
Street Lamp Operating.....	73,623.95	.02985
Repairs Buildings, Furniture and Fixtures.....	1,389.25	.00056
Repairs Meters.....	27,556.15	.01118
Repairs Mains.....	9,926.25	.00401
Repairs Services.....	17,702.32	.00717
Repairs Street Lamps.....	1,376.49	.00055
Repairs District Plant (Miscellaneous).....	673.89	.00028
Total distribution cost.....	\$227,663.68	.09233

General Expense:		
General Salaries.....	\$28,571.67	.01159
Director's Fees.....	5,310.00	.00215
Office Expense.....	3,144.39	.00128
Office Supplies.....	6,386.30	.00259
Legal Expense.....	3,377.54	.00137
Accidents and Damages.....	1,786.75	.00073
Advertising.....	1,233.86	.00050
Insurance.....	104.52	.00005
Interest.....	19,531.80	.00792
Incidental Expenses.....	17,512.39	.00710
Rebates.....	3,959.71	.00161
Rents Payable.....	4,236.75	.00172
Bad Debts.....	54,586.50	.02214
Gas Stoves.....	23,096.12	.00936
Taxes.....	76,789.14	.03114
Bond Interest.....	227,398.76	.09223
Depreciation, etc.....	400,000.00	.16221
Total General Expense.....	\$877,026.20	.35569

Gas Summary—1904:		
Manufacture.....	\$17,254.99	.33144
Distribution.....	227,663.68	.09233
General.....	877,026.20	.35569
	\$1,921,944.87	.77946

GAS.

COST OF PRODUCTION YEAR ENDING DEC. 31, 1903.

Basis of Sold.

Manufacturing Cost:		
Anthracite Used.....	\$152,983.90	.09701
Oven Coke Used.....	57,398.97	.03640
	210,382.87	.13341
Less Residuals.....	4,510.46	.00286
	\$205,872.41	.13055
Gas Oil used.....	\$161,441.86	.10238
Water.....	4,002.68	.00254
Works Supplied.....	4,413.75	.00280
Manufacturing Wages.....	78,675.50	.04989
Repairs to Manufacturing Plant.....	33,162.10	.02103
Works Expense.....	6,370.58	.00404
Purifying Materials.....	870.24	.00055
Fuel Coal used.....	15,427.77	.00979
Gas Purchased, Manufacturing.....	44,928.48	.02849
	\$555,165.37	.35206

530 LIGHTING STREETS AND PUBLIC BUILDINGS

Distribution Expense:		
Distribution Supplies.....	\$ 3,083.43	.00196
Distribution Wages and Sales.....	61,899.35	.03925
Repairs, Pipes.....	12,254.18	.00777
Repairs, Meters.....	22,758.24	.01443
Repairs, and care Lamps.....	75,519.28	.04789
Repairs District Plant.....	1,822.11	.00116
Distribution Expenses.....	5,428.94	.00344
Gas Purchased (District).....	598.21	.00038
	<u>\$183,363.74</u>	<u>.11628</u>

General Expense:		
General Salaries.....	\$ 27,610.05	.01751
Director's Fees.....	3,955.00	.00251
Office Expense.....	7,325.13	.00464
Incidental Expenses.....	14,918.74	.00946
Teaming Expense.....	8,200.15	.00521
Legal Expense.....	3,658.63	.00232
Insurance.....	76.90	.00005
Interest.....	19,365.52	.01228
Rebates.....	1,772.00	.00112
Rents Payable.....	860.07	.00056
Advertising.....	518.36	.00033
Bad Debts.....	12,893.25	.00818
Taxes.....	50,006.40	.03171
Bond Interest.....	43,837.50	.02779
Wear and Tear and Insurance Contingent Fund	200,000.00	.12683
Gas Stoves.....	6,614.95	.00419
	<u>\$401,612.65</u>	<u>.25469</u>

Summary:		
Manufacturing.....	\$555,165.37	.35206
Distribution.....	183,363.74	.11628
General Expense.....	401,612.65	.25469
	<u>\$1,140,141.76</u>	<u>.72303</u>

Cubic feet sold year 1903, 1,576,893,900.

EXHIBIT No. 3.

Assessed valuation of properties of San Francisco Gas and Electric Company for 1903 and 1904:

City and County Rate 1.076.

	Real-Estate	Improvements	Personal Property	Fran-chises	Total
S. F. G. & E. Co. (Gas)	\$267,195.	\$8,627.00.	\$1,186,061.80	\$172,000.	\$2,490,956.80
S. F. G. & E. Co. (Elec)	93,255.	316,200.	541,938.20	75,000.	1,026,393.20
P. G. I. Co. (Gas).....	103,340.	176,950.	590,000.	300,000.	1,170,290.
Equit. G. L. Co. (Gas)	4,820.	36,150.	81,610.	5,000.	127,580.
I. G. & P. Co. (Gas)...	31,290.	102,000.	200,000.	Nil.	333,290.
I. E. L. & P. Co. (Elect)	46,680.	99,500.	1,245,000.	40,000.	1,431,180.
	<u>546,580.</u>	<u>1,593,500.</u>	<u>3,844,610.</u>	<u>595,000.</u>	<u>6,579,690.</u>
State Rate—, 561.					
S. F. G. & E. Co. (Gas)	347,353.50	1,121,510.	1,541,880.35	227,500.	3,238,243.85
S. F. G. & E. Co. (Elec)	121,231.50	411,060.	704,519.65	97,500.	1,334,311.15
P. G. I. Co. (Gas).....	134,342.	230,035.	767,000.	390,000.	1,521,377.
Equit. G. L. Co. (Gas)	6,266.	56,995.	106,093.	6,500.	165,854.
I. G. & P. Co. (Gas)...	40,677.	132,600.	260,000.	Nil.	433,277.
I. E. L. & P. Co. (El.)	60,684.	129,350.	1,618,500.	52,000.	1,860,534.
Total.....	<u>\$710,554.</u>	<u>\$2,071,550.</u>	<u>\$4,997,993.</u>	<u>\$773,500.</u>	<u>\$8,553,597.</u>

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FISCAL YEAR 1904.

City County and State:
 Rate—City 1.12
 State .535

 1.655

San Francisco Gas & Electric Company.

	Real Estate	Improvements	Personal Property	Franchises	Total
Gas.....	499,690.	1,140,850.	2,855,979.50	250,000.	4,746,519.50
Electric.....	234,020.	438,200.	1,414,840.50	250,000.	2,337,060.50
Total.....	\$733,710.	\$1,579,050.	\$4,270,820.	\$500,000.	\$7,083,580.

EXHIBIT NO. 4.

PAY ROLL OF THE SAN FRANCISCO GAS AND ELECTRIC CO. FOR THE MONTH OF OCTOBER, 1904.

SECRETARY.

Bourn, W. B., President.....	\$1,500.00
Barrett, Chas. L., Secretary and Treasurer.....	350.00
Tucker, Jas. E., Asst. Secretary.....	150.00
Holt, C. E., Asst. Secretary.....	125.00
Keough, M., President's Stenographer.....	90.00
Gibney, Thos., Office Boy.....	30.00
Jenkins, Jas., Office Boy.....	30.00
Barrett, Wm. G., Ex-Secretary.....	175.00
Eichbaum, F. H., Ex-Engineer.....	83.35
Egan, John, Ex-Bill Clerk.....	25.00
McCormick, Thos., Ex-Laborer.....	20.00
	\$2,578.35

AUDITOR.

Butler, J. D., Auditor.....	\$200.00
Dixon, John L., Bookkeeper.....	110.00
Mitchell, H. A., Bookkeeper.....	100.00
Trainer, J., Bookkeeper.....	75.00
Murray, W. N., Typewriter.....	40.00
	\$525.00

MAIN OFFICE.

Finn, James W., Office Superintendent.....	\$208.30
Angier, W. T., Bookkeeper (Gas).....	125.00
J. H. Donovan, Bookkeeper (Gas).....	125.00
Walsh, Geo., Bookkeeper (Gas).....	125.00
Murphy, James, Bookkeeper (Gas).....	100.00
Angelo, E. J., Bookkeeper (Gas).....	100.00
Vincent, Geo. J., Bookkeeper (Gas).....	100.00
Stroh, Geo., Bookkeeper (Gas).....	90.00
Hay, C. E., Bookkeeper (Gas).....	85.00
Floyd, Edward, Bookkeeper (Gas).....	85.00
Oldis, F. E., Bookkeeper (Electric).....	125.00
Whitmore, C., Bookkeeper (Electric).....	90.00
Theobald, Bevely, Bookkeeper (Electric).....	50.00
Cohen, L., Bookkeeper (Jobbing).....	90.00
White, H. R., Bookkeeper (Jobbing).....	85.00
Martin, James G., Head Collector.....	150.00

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Coghill, W. H., Collector.....	\$100.00
Courtier, R. J., Collector.....	100.00
Gummer, W. T., Collector.....	100.00
Loughlin, W. T., Collector.....	100.00
Yablonsky, John, Collector.....	100.00
Byrne, S. A., Collector.....	100.00
Walsh, Joseph, Collector.....	100.00
Peat, R. H., Collector.....	100.00
Chisholm, A., Collector.....	100.00
Morison, R., Collector.....	100.00
Jordan, M., Collector.....	80.00
Brown, R. T., Collector.....	75.00
Burgess, J. C., Collector.....	75.00
Flagg, A. E., Collector.....	75.00
Morrin, P. J., Collector.....	75.00
O'Brien, D. J., Collector.....	75.00
Brown, F. E., Collector.....	75.00
McCarthy, Jere D., Collector.....	75.00
Martin, P. L., Collector.....	75.00
Bradley, W. J., Collector.....	75.00
Cavanaugh, W. A., Collector.....	75.00
Hillman, G. G., Collector.....	75.00
Hueter, L. H., Collector.....	75.00
Cathcart, C. A., Collector (part month—29 days at \$75.00).....	70.20
Jagger, H. C., Collector.....	70.00
Connor, N. W., Collector.....	70.00
Harris, Goodwin, Collector.....	70.00
Williams, A., Collector.....	65.00
Wells, Arthur, Collector.....	60.00
James, C. H., Collector.....	60.00
Bowman, Robert, Clerk.....	100.00
White, D. A., Clerk.....	100.00
Cunningham, J. J., Clerk.....	100.00
Floyd, Z., Clerk.....	100.00
Willis, John, Clerk.....	75.00
Ingall, W. B. B., Clerk.....	75.00
Lord, W. P., Clerk.....	75.00
Rives, H. M., Clerk.....	75.00
Rutter, C. F., Clerk.....	60.00
Quigley, Leigh A., Clerk.....	60.00
Rivers, B. Allen, Clerk.....	50.00
Dawson, Wm., Clerk.....	40.00
Peck, Gus C., Clerk.....	40.00
Wilber, Chas. R., Receiver.....	75.00
Dufficy, Chas. M., Receiver.....	70.00
McEvoy, M., Statements (Gas).....	90.00
McKeon, P. J., Statements (Gas).....	90.00
Sweeney, John, Statements (Gas).....	90.00
Moran, James, Statements (Gas).....	90.00
Breslin, Neil, Statements (Gas).....	75.00
Davis, B. A., Statements (Gas).....	75.00
Ryan, D. W., Statements (Gas).....	75.00
Kearns, B., Statements (Gas).....	75.00
Hand, R. J., Statements (Gas).....	65.00
Curley, John Statements (Gas) (9 days at \$65.00).....	18.90
Barrett, G. E., Statements (Electric).....	90.00
Hueter, Ernest U, Statements (Electric).....	75.00
Thomas, H. P., Statements (Electric).....	75.00
Burdick, E. S., Statements (Electric).....	75.00
Wilber, F. E., Addressograph.....	80.00
James, Josephine, Addressograph.....	30.00
Munro, Helen, Addressograph.....	30.00
Saulsbury, Jennie, Addressograph.....	30.00
Wilber, Albert R., Addressograph.....	30.00
Nicoll, H., Addressograph.....	30.00
Quinn, May, 'Phone.....	50.00
Weber, T. H., Janitor.....	70.00
McDermott, David, Janitor.....	60.00
Cullen, Paul, Lock Meter.....	65.00
De Veuve, Harry, Lock Meter.....	65.00
Voorhies, H., Lock Meter.....	65.00
Earsman, J. M., Clerk (33 days at \$125.00).....	133.35

\$7,070.75

GENERAL SUPERINTENDENT.

Naphtally, S. L., General Superintendent.....	\$700.00
Hyde, W. S., Clerk.....	100.00
Murphy, M. A., Clerk.....	60.00
Gilchrist, V. T., Draughtsman.....	125.00
Price, E. B., Asst. Draughtsman.....	70.00
Feiling, E. G., Asst. Draughtsman (13 days at \$3.50).....	45.50
Frank, M. C., Asst. Draughtsman (24 days at \$2.50).....	60.00
Loebner, E., Asst. Draughtsman (11 days at \$3.25).....	35.75
Ensign, W. H., Asst. Draughtsman (23 days at \$3.00).....	69.00
Hammond, J. A., Chemist.....	70.00
Lindsay, D., Inspector (25 days at \$110.00).....	88.70

\$1,423.95

COMPLAINT DEPARTMENT.

Name	Occupation	Days	Rate	Amount
Hamilton, S. P.	Manager	1 mo.	\$150.00	\$150.00
Rountree, W. G.	Clerk	1 mo.	100.00	100.00
Murchie, G. R.	Adjuster	1 mo.	60.00	60.00
Craw, L. A.	Adjuster	1 mo.	60.00	60.00
Scott, W. R.	Adjuster	15 days	60.00	29.05
Hammersly, Roy	Clerk	1 month	25.00	25.00
Spelly, Retta	Phone Oper.	.1 month	35.00	35.00
Blevins, Ida	Phone Oper.	1 month	35.00	35.00
Mulvey, Mazie	Phone Oper.	26 days	35.00	29.35
Murphy, Robt.	Complaints	26½ days	2.89	76.95
Brody, Jas.	Complaints	31 15-16 days	2.89	92.30
Breslin, Jas.	Complaints	37½ days	2.89	108.75
Crane, Ed.	Complaints	37½ days	2.89	109.45
Sullivan, Ed.	Complaints	42½ days	2.89	122.45
Coogle, Jas.	Complaints	25 3-16 days	2.89	72.80
Coogle, Jas.	Complaints	12 5-16 days	2.50	30.80
Colman, A. F.	Complaints	1 5-16 days	2.89	3.80
Colman, A. F.	Complaints	41½ days	2.50	105.30
McGovern, Robt.	Complaints	28 7-16 days	2.50	71.10
W. T. Morris	Complaints	19½ days	2.50	49.05
Barris, Frank	Complaints	25 7-16 days	2.50	63.60
Walsh, Joseph	Complaints	38 days	2.50	95.00
Sylvester, Albert	Complaints	37½ days	2.50	94.70
Parker, Newell	Stove Dept.	26 9-16 days	3.25	86.30
Lundy, Benj.	Stove Dept.	25½ days	3.25	82.85
Brewer, Fred	Electric	5½ days	85.00	15.75
Brewer, Fred,	Electric	1 month	85.00	85.00
Hayes, Chas.	Electric	1 month	85.00	85.00
Mielenz, Ed.	Electric	4½ days	75.00	12.20
Mielenz, Ed.	Electric	1 month	75.00	75.00
Nickel, Arizona	Electric	3 13-16 days	85.00	10.70
Nickel, Arizona	Electric	1 month	85.00	85.00
Donohue, Robt.	Night Compl.	27 days	3.25	87.75
Willits, Harry	Night Oper.	6 days	35.00	7.00

Total..... \$2,252.00

ELECTRIC CONTRACT DEPARTMENT.

Gray, S. F.	Superintendent Contract Department	\$150.00
Butler, J. F., Clerk.....		90.00
Turner, T. J. Clerk.....		65.00
Nowland, H. B.....		50.00
Schenk, E. Clerk.....		75.00
Springett, J., Clerk.....		65.00
Thompson, G. S., Solicitor.....		100.00
Neiman, W. F., Solicitor.....		100.00
Chandler, J. B., Solicitor.....		80.00
Smith, R. A., Solicitor.....		80.00
De Wolf, W. R., Solicitor.....		65.00

Total..... \$920.00

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GAS STOVE DEPT. (Wrenn)

Name	Occupation	Days	Rate	
Wrenn, J. W.	Manager	1 month		\$150.00
Mahoney, E. P.	Bookkeeper	1 month		85.00
Conran, Jos.	Asst. Bookpr.	1 month		75.00
Choynski, M.	Demonstrator	1 month		70.00
Lees, Paul	Salesman	1 month		75.00
Kilsey, N. E.	Salesman	1 month		75.00
Dillon, R. J.	Salesman	1 month		75.00
Brown, C. M.	Solicitor	1 month		40.00
Jenkins, A. F.	Solicitor	1 month		50.00
Schwartz, J.	Solicitor	1 month		50.00
Luna, Chas.	Solicitor	1 month		50.00
Williams, W. E. H.	Solicitor	1 month		50.00
McHenry, J. A.	Collector	1 month		65.00
Cameron, E.	Clerk	1 month		40.00
O'Connor, K.	Stenographer	1 month		35.00
Born, E. O.	Clerk	1 month		60.00
Hedden, August	Porter	27 days	\$ 2.00	54.00
Littlejohn, G.	Fitter	26 days	3.65	94.90
Rogers, D.	Helper	26 days	2.25	58.50
Dawson, Geo.	Collector	7 days	60.00	13.55
McDermott, D.	Porter	1 day	2.00	2.00
Total.....				\$1,267.95

STREET WORK AND TEAMING DEPT.

Adams, S. H.	Supt.	26 days		\$125.00
Garland, P.	Paver	26 days	\$3.50	91.00
Kelly, R.	Helper	26 days	2.75	71.50
Kelly, J.	Cooker	26 days		60.00
Jackson, T. S.	Helper	3 days	2.50	7.50
Carraher, P. S.	Helper	2 days	2.50	5.00
Murphy, F.	Paver	26 days	4.00	104.00
Burke, J.	Helper	26 days	3.00	78.00
McClay, Joseph	Helper	3 days	2.25	6.75
Fitzgerald, James	Helper	25 days	2.25	56.25
Meyer, W.	Teamster	27 days	2.75	74.25
Jackson, L. A.	Helper	27 days	2.00	54.00
Termy, E.	Teamster	25 days	2.50	62.50
Wahler, F.	Teamster	26 days	2.00	52.00
Kingston, J.	Teamster	26 days	2.25	58.50
Meyer, W., Jr.	Helper	27 days	2.00	54.00
Carney, J.	Teamster	1 day 2 hours	2.50	3.10
Meyer, A.	Helper	34 days	2.50	85.00
Total.....				\$1,048.35

ELECTRIC DEPARTMENT STATION "A."

Mason, F. E.	Ch. Engineer	1 month	\$150.00	\$150.00
Comstock, C.	Engineer	1 month	120.00	120.00
Hartsough, D.	Engineer	1 month	120.00	120.00
Collins, Frank	Engineer	1 month	120.00	120.00
McDonald, J.	Foreman mach.	1 month	120.00	120.00
Vandall, J. M.	Engineer	1 month	120.00	120.00
Cronin, W. F.	Machinist	29½ days	2.75	82.15
Pegg, Arthur R.	Mach. helper	35½ days	2.50	89.70
Bates, C. L.	Mach. helper	29 days	2.50	72.50
Stewart, F. G.	Craneman	30½ days	2.50	76.85
Donovan, W.	Oiler	30 days	2.50	75.00
Dunn, D.	Oiler	31 days	2.50	77.50
Rooney, F.	Oiler	31 days	2.50	77.50
Nanthe, C.	Oiler	31 days	2.50	77.50
Green, J. E.	Oiler	31 days	2.50	77.50
Kennedy, Louis	Oiler	23 days	2.50	57.50
Kennedy, James	Oiler	31 days	2.50	77.50
Lawler, John	Oiler	31 days	2.50	77.50

	Occupation	Days	Rate	
Bell, J. F.	Oiler	31 days	\$2.50	\$77.50
Craty, A. B.	Oiler	4 days	2.50	10.00
Donnelly, W. C.	Oiler	31 days	2.50	77.50
Daly, W. F.	Oiler	29 days	2.50	72.50
Speechly, J.	Wiper	31 days	2.00	62.00
Stevens, E. D.	Wiper	31 days	2.00	62.00
Glennon, W.	Sweeper	1 month	50.00	50.00
Stewart, R. H.	Fireman	31 days	2.75	85.25
Osborn, W.	Fireman	31 days	2.75	85.25
Williams, J.	Fireman	31 days	2.75	85.25
Toole, M. O.	Fireman	31 days	2.75	85.25
White, J.	Fireman	31 days	2.75	85.25
Stevenson, R.	Water tender	31 days	3.00	93.00
Larson, O.	Water tender	31 days	3.00	93.00
Mulhare, J.	Water tender	31 days	3.00	93.00
Hunt, G.	Oiler	29 days	2.50	72.50
Anderson, A.	Boiler maker	26 days	3.00	78.00
Adams, H. G.	Boiler cleaner	28½ days	2.50	71.25
Nesbitt, J.	Boiler cleaner	28 days	2.50	70.00
Hempler, C.	Cond's'r cleaner	31 days	2.50	77.50
Jones, G. W.	Cond's'r cleaner	31 days	2.50	77.50
Cheetham, A. E.	Circ. pumpman	31 days	1.75	54.25
Davidson, S. F.	Bricklayer	28 days	3.50	98.00
Auld, R.	Laborer	30 days	2.50	75.00
Cain, J.	Bricklayer	28 days	2.50	70.00
Ready, J.	Mach. helper	20½ days	3.25	66.60
Raser, O. B.	Mach. helper	3 days	3.50	
		2 days	3.25	17.00
Happ, Wm. H.	Mach. helper	3 days	3.50	
		3 days	3.25	20.25
		7 days	2.50	17.50
McMenamine, Hugh	Oiler	7 days	2.50	17.50
Fogalsang, Thos. E.	Supt.	1 month	135.00	135.00
Hathaway, J. F.	Operator	1 month	95.00	95.00
Pospishek, Jos.	Operator	1 month	95.00	95.00
Burns, Arthur	Operator	1 month	95.00	95.00
Mulgrew, Martin	Wiper	30 days	2.00	60.00
Emery, Fred	Wiper	30 days	2.00	60.00
Blossom, Frank	Wiper	1½ days	2.00	3.25
Varney, J. W.	Wireman	1 month	85.00	85.00
Cleveland, Judd	Helper	1 month	75.00	75.00
Schmitt, L. A.	Helper	29 6-8 days	2.50	74.40
Hopkins, C. F.	Wiper	28½ days	2.00	57.25
Sarcander, C.	Appr.	13 days	1.50	19.50
Wells, T. D.	Wireman	34½ days	3.50	122.05
Mills, S.	Appr.	6 days	1.50	9.00
Hankos, J.	Helper	4 days	2.50	10.00
McCall, J.	Helper	4½ days	2.50	10.60
McCourt, P. R.	Helper	4 days	2.50	10.00
Ball, G. A.	Operator	1 month	90.00	90.00
Syverston, Bert.	Operator	1 month	85.00	85.00
Cankin, R. O.	Operator	1 month	85.00	85.00
Birkenstock, D. C.	Operator	1 month	90.00	90.00
McAvin, Jas.	Operator	1 month	85.00	85.00
Ireland, E. L.	Operator	1 month	85.00	85.00
Clark, G. R.	Operator	1 month	90.00	90.00
Morrison, F. S.	Operator	1 month	85.00	85.00
Stolle, E.	Operator	3 days	2.42	7.25
Maiden, Arthur	Operator	18 days	2.42	43.55
Brannon, C. D.	Foreman	1 month	125.00	125.00
Wilson, J. D.	Helper	11 days	2.50	27.50
Bell, H. H.	Helper	31 2-8 days	2.50	78.15
Leary, C.	Wireman	27 6-8 days	3.50	97.15
Parker, H.	Boy	4 days	1.75	
	Wiper	26 days	2.00	59.00
Smith, G. W.	Carpenter	1 month	80.00	80.00
Varney, Frank	Supt.	1 month	275.00	275.00
Moody, B. F.	Clerk	1 month	75.00	75.00
Hooper, G. R.	Messenger	1 month	30.00	30.00

Total \$6259.45

ELECTRIC DEPARTMENT STATION "B"

Name	Occupation	Days	Rate	
Eastwood, Chas.	Chief engineer	1 month	\$150.00	\$150.00
Kennedy, J.	Engineer	1 month	120.00	120.00
Pierson, B.	Engineer	1 month	120.00	120.00
Miller, T.	Water tender	31 days	3.00	93.00
Ellison, E.	Fireman	31 days	2.75	85.25
Widen, G.	Fireman	31 days	2.75	85.25
Conlan, P.	Oiler	31 days	2.50	77.50
Smith, J.	Oiler	32 days	2.50	80.00
Seaver, F.	Oiler	31 days	2.50	77.50
Williams, B.	Oiler	31 days	2.50	77.50
Quinn, T.	Oiler	32 days	2.50	80.00
Baker, A.	Oiler	31 days	2.50	77.50
Sears, W.	Oiler	31 days	2.50	77.50
Ryan, P.	Cond. man	33 days	2.50	82.50
Leahy, F.	Boy	31 days	1.50	46.50
Fromberg, B.	Pipe fitter	31 4-8 days	3.25	102.40
Rickey, G. H.	Oiler	28 4-8 days	2.50	71.25
Keane, Wm.	Oiler	4 days	2.50	10.00
Kahn, J. B.	Sta. foreman	1 month	100.00	100.00
Thomsen, H. A.	Operator	1 month	85.00	85.00
Harlow, C.	Operator	1 month	85.00	85.00
Sullivan, T. R.	Operator	5 days	2.74	13.70
Sademan, F.	Dynamo tn'dr	34 days	2.25	76.50
Habenicht, W.	Wiper	32 6-8 days	2.00	65.50
Gabaner, E.	Wiper	10½ days	2.00	20.75
Pierce, R.	Wiper	30½ days	2.00	61.75
Johnson, A.	Wiper	13½ days	2.00	27.75
Swanson, L.	Wiper	8 days	2.00	16.00
Total .				\$2065.60

ELECTRIC DEPARTMENT STATION "C"

Name	Occupation	Days	Rate	
Chowaldjy, N.	Chief engineer	1 month	\$150.00	\$150.00
Anderson, C.	Engr. & Mchst.	5 days	3.87	19.35
Campbell, J.	Engr. & Mchst.	1 month	120.00	120.00
Geneve, E.	Engine tender	1 month	120.00	120.00
Burke, Thos.	Water tender	31 days	3.00	93.00
Cashman, D.	Fireman	31 days	2.75	85.25
Hacket, M.	Fireman	31 days	2.75	85.25
Fenton, J.	Fireman	31 days	2.75	85.25
Burke, U.	Oiler	30 days	2.50	75.00
Erdin, C.	Oiler	30 days	2.50	75.00
Johnson, A.	Oiler	25 days	2.50	62.50
Peirson, P.	Oiler	31 days	2.50	77.50
Peterson, H.	Oiler	31 days	2.50	77.50
Rouke, J.	Oiler	30 days	2.50	75.00
Rogers, W.	Oiler	31 days	2.50	77.50
Sibley, H. C.	Oiler	31 days	2.50	77.50
Wilson, T.	Oiler	30 days	2.50	75.00
Widen, M.	Oiler	9 days	2.50	22.50
Soderstrand, A.	Oiler	16 days	2.50	40.00
Anderson, M.	Scaler	31 2-8 days	2.25	70.30
Brown, C.	Scaler	29 2-8 days	2.25	65.80
Benson, J.	Scaler	4 days	2.25	9.00
Rotherberg, M.	Scaler	28 6-8 days	2.25	64.70
Parker, F.	Oiltender	31 days	2.25	69.75
Qualters, P.	Porter	27 days	2.25	60.75
Garner, W.	Mchst helper	25 days	2.25	56.25
Otis, C.	Mchst helper	31 4-8 days	2.25	70.85
Sinnott, L.	Oiler	6 days	2.50	
	Mchst helper	25 days	2.25	71.25
Ellis, F.	Mchst helper	32 2-8 days	3.50	112.85
Lynch, T.	Boiler maker	28 6-8 days	3.50	100.60
Swain, Ed.	Eng. & mchst	19 days	3.87	73.55
Erdin, Ed.	Helper	5 days	2.25	11.25
Winters, E. V.	Eng. & mchst	6 days	3.87	23.20

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Name	Occupation	Days	Rate	
Beardsley, E. W.	Foreman	1 month	\$140.00	\$140.00
Arnott, T. F.	Foreman	5 days	3.07	15.35
Pitzsimmons, F.	Foreman	1 month	95.00	95.00
Blackburn, W. T.	Operator	1 month	85.00	85.00
Miller, W. P.	Operator	1 month	85.00	85.00
Keys, Robert	Operator	28 days	2.72	76.15
Cavanaugh, F.	Operator	1 month	85.00	85.00
Herbers, C.	Dynamo tend'r	8 days	2.25	18.00
Hamilton, C. H.	Dynamo tend'r	36½ days	2.25	82.40
Jones, L.	Wiper	32½ days	2.00	64.50
Ellis, P.	Wiper	31½ days	2.00	62.50
Kirkpatrick, G. S.	Dynamo tend'r	19½ days	2.25	
	Wiper	12 2-8 days	2.00	69.20
Serbanoff, D.	Wiper	21 days	2.00	42.00
Smith, M.	Wiper	2 days	2.00	4.00
Smith, A. E.	Wiper	8½ days	2.00	16.25
Plaskett, J.	Wiper	23½ days	2.00	46.50
Thomas, O. E.	Wiper	11½ days	2.00	22.50
Barbieri, J. M.	Repair man	39 days	2.75	107.25
Nicholls, A. N.	Helper	37½ days	2.00	75.25
Morrow, W.	Appr.	30½ days	1.25	38.45
Taylor, W. T.	Repair man	2 days	2.75	5.50
Robinson, R. H.	Battery man	1 month	90.00	90.00
Morrison, T.	Laborer	8½ days	2.00	17.00
Renz, L.	Laborer	28 4-8 days	2.00	57.00
Haase, C.-	Laborer	15 days	2.00	30.00
Quinn, S.	Laborer	14 days	2.00	28.00
Wilson, J.	Laborer	2½ days	2.00	4.75
Janson, C.	Wiper	2 days	2.00	4.00
Dantrick, F. J.	Wiper	7 days	2.00	14.00
Burson, J. A.	Wiper	6½ days	2.00	13.25
Britt, T.	Dynamo tend'r	7½ days	2.25	17.70
Taff, G. W.	Repair man	6 2-8 days	2.75	17.20
Schmitt, C.	Foreman	1 month	100.00	100.00
Brickdale, E. R.	Operator	1 month	85.00	85.00
Broyer, H.	Operator	1 month	85.00	85.00
Cook, B. F.	Operator	1 month	85.00	85.00
Finnigan, Jas.	Operator	1 month	85.00	85.00
Messner, C. H.	Operator	1 month	85.00	85.00
Vragnisen, D. C.	Operator	1 month	85.00	85.00
Johnston, R.	Foreman	28 4-9 days	4.00	113.75
Vaughan, W.	Machinist	29 4-9 days	3.50	103.05
Fitzpatrick, J.	Blacksmith	26 5-9 days	3.50	92.95
Ferris, G.	Electrician	26 days	3.25	84.50
Porteus, J.	Electrician	26 days	3.00	78.00
Powers, M.	Blksmith h'lp'r	26 5-9 days	2.25	59.75
Young, R.	Machinist	24 days	2.00	48.00
Priddle, Milton	Appr.	25 7-9 days	1.50	38.65
Hilgensen, F.	Appr.	25 4-9 days	1.00	25.45
Total				\$5136.00

POTRERO STATION.

Name	Occupation	Days	Rate	
Lucy, D.	Day foreman	31 days	\$4.03	\$125.00
Evans, J.	Asst. day f'rm	31 days	3.70	115.00
Oettle, J. G.	Night foreman	31 days	3.70	115.00
Kingston, J.	Asst. N'gt f'rm	31 days	3.54	110.00
Tietjen, W.	Chief engr.	31 days	4.03	125.00
Bailey, N. T.	Clerk	31 days	2.42	75.00
Caddy, E.	Data taker	11 3-5 days	1.61	18.70
Stewart, R. L.	Gasmak'rs clk	31 days	1.29	40.00
Crowley, J.	Gasmak'rs clk	31 days	1.29	40.00
Jones, H. P.	Gasmak'rs clk	31 days	1.29	40.00
Dougherty, J.	Ch. purifier	31 days	2.741	85.00
Sullivan, J.	Asst. engr.	11 days	3.217	35.40
Howard, V.	Asst. engr.	20 2-8 days	3.217	65.15
Smith, P.	Asst. engr.	31 days	3.217	99.75
Osborn, W.	Asst. engr.	31 days	3.217	99.75
Lion, E. E.	Asst. engr.	31 days	3.217	99.75
Renwick, W.	Asst. engr.	24½ days	3.217	78.40

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Name	Occupation	Days	Rate	
Tanner, M. T.	Asst. engr.	14 days	\$3.217	\$45.00
Reilly, J. J.	Fireman	31 days	2.741	85.00
Lemmihirt, E.	Fireman	31 days	2.741	85.00
Warnock, J.	Fireman	20 4-8	2.741	56.20
De Pauli, A.	Gasmaker	31 days	3.548	110.00
Watson, B.	Gasmaker	31 days	3.548	110.00
McCormick, F.	Gasmaker	31 days	3.548	110.00
Piver, E.	Valve tender	31 days	2.903	90.00
Snyder, S.	Valve tender	31 days	2.903	90.00
Bodenhamer, I.	Valve tender	31 days	2.903	90.00
Mench, H. A.	Valve tender	31 days	2.903	90.00
McCall, W.	Valve tender	22 days	2.903	63.85
Johnson, J. P.	Valve tender	31 2-8 days	2.903	90.70
Blair, H.	Valve tender	25 days	2.903	72.55
Eckhardt, W. H.	Valve tender	31 days	2.903	90.00
Anderson, G.	Valve tender	20 days	2.903	
		11 days	3.217	93.45
Jensen, C.	Valve tender	25 days	2.903	72.55
Carlson, T.	Stoker	31 days	2.741	85.00
Coleman, D.	Stoker	29 days	2.741	79.45
Finnegan, P.	Stoker	30 ½ days	2.741	83.95
Gorman, M.	Stoker	31 days	2.741	85.00
Galvin, W.	Stoker	29 days	2.741	79.50
Galckin, Jos.	Stoker	31 ½ days	2.741	86.70
Keohane, J.	Stoker	31 days	2.741	85.00
Lyons, J.	Stoker	31 ½ days	2.741	86.00
Marquis, T.	Stoker	31 days	2.741	85.00
McKay, Jas.	Stoker	31 ½ days	2.741	86.70
McGinely, Jno.	Stoker	31 days	2.741	85.00
O'Donnell, Jas.	Stoker	31 ½ days	2.741	86.70
Irwin, J.	Stoker	5 days	2.741	13.70
Jurgensen, J.	Coalpasser	31 days	2.741	85.00
Lutz, Chris.	Coalpasser	30 4-8 days	2.741	83.55
Matteson, M.	Coalpasser	10 days	2.741	
		10 4-8 days	2.50	53.65
Nohl, Con.	Coalpasser	31 days	2.741	85.00
O'Conner, Wm.	Coalpasser	31 days	2.741	85.00
Skow, C.	Coalpasser	31 days	2.741	85.00
Lavelle, T.	Drip&scr'n mn	27 days	2.50	67.50
Lavelle, J.	Drip&scr'n mn	30 days	2.50	75.00
Smedley, Geo.	Drip&scr'n mn	31 days	2.50	77.50
Brown, C.	Yardman	33 4-8 days	2.50	83.75
Finley, R.	Janitor	26days	2.00	52.00
Johnson, D.	Coalman	31 days	2.50	77.50
McDermott, J.	Coalman	19 days	2.50	47.50
O'Donnell, P.	Coalman	31 days	2.50	77.50
Bouschine, Chas.	Rigger	27 days	3.22	87.05
Delaney, W. P.	Machinist	25 4-8 days	3.50	89.25
Kavanaugh, Ed.	Pipe fitter	34 days	3.25	110.50
Kavanaugh, H.	Pipe fitter	32 5-8 days	3.25	106.00
Frazer, T.	Blacksmith	29 4-8 days	3.50	103.25
Edmunds, F. O.	Electrician	2-8 days	2.50	.60
McAuliff, C. P.	Electrician	30 7-8 days	2.50	77.20
Cunningham, J.	Mason	5 5-8 days	3.50	19.70
Allen, M.	Rigger's helper	23 days	2.50	57.50
Smith, Jos.	Machst helper	26 days	2.50	65.00
Howard, P.	Pipe fitter hlpr	31 days	2.50	77.50
Kirsch, F.	Pipe fitter hlpr	1 4-8 days	2.74	
		30 ½ days	2.50	80.65
Olmos, A.	Blacksm.helper	29 days	2.50	72.50
Dolan, L.	Helper	1 2-8 days	2.50	3.10
Kennedy, P.	Masons helper	5 ½ days	2.50	14.05
Hickey, W. J.	Boiler cleaner	4 ½ days	2.50	10.60
Moore, Jos.	Boiler cleaner	28 6-8 days	2.50	71.85
McEntee, P.	Boiler cleaner	13 6-8 days	2.50	
		18 days	3.217	92.25
Keating, P.	Yardman	3 days	2.741	
		22 ½ days	2.50	65.40
Leonard, M.	Yardman	9 ½ days	2.50	23.45
Ryan, T.	Yardman	6 ½ days	2.50	15.95
Donovan, J.	Yardman	27 6-8 days	2.50	69.35
Lyons, M.	Yardman	22 days	2.741	
		9 days	2.50	82.80

Name	Occupation	Days	Rate	
Lutz, Gus.	Yardman	23 6-8 days	\$2.50	\$59.35
Desmond, D.	Yardman	25 4-8 days	2.50	63.75
Ryan, J.	Yardman	1 day	2.50	2.50
Trant, J.	Yardman	22½ days	2.50	57.20
Moynihan, H.	Yardman	17 6-8 days	2.50	44.40
Kelleher, C.	Yardman	13 days	2.50	32.50
Paulsen, P.	Yardman	8 4-8 days	2.50	21.25
Eysele, J.	Yardman	10 days	2.50	25.00
McCarthy, P.	Yardman	13 days	2.50	32.50
Kelley, J. J.	Yardman	11 4-8 days	2.50	28.75
Ward, M.	Yardman	13 days	2.50	32.50
Brannan, J.	Yardman	9 days	2.50	22.50
Barry, J.	Yardman	7 days	2.50	17.50
Bell, J.	Yardman	8½ days	2.50	20.95
McLaughlin, Ed.	Yardman	1 day	2.50	2.50
Anderson, Fred	Yardman	8 days	2.50	20.00
McCann, C.	Yardman	8½ days	2.50	20.95
Sullivan, J.	Yardman	8 days	2.50	20.00
Mooney, G.	Yardman	6 4-8 days	2.50	16.25
Lorham, D.	Yardman	6½ days	2.50	16.55
Lannin, J.	Yardman	5 4-8 days	2.50	13.75
Rossiten, T.	Yardman	5 4-8 days	2.50	13.75
Courtney, T.	Yardman	4 4-8 days	2.50	11.25
Papst, H. M.	Supt.			200.00

Total..... \$7,065.50

NORTH BEACH STATION.

Name	Occupation	Days	Rate	
Maynard, T. G.	Foreman	31 days	\$4.032	\$125.00
McIntyre, J. B.	Night foreman	31 days	3.548	110.00
McDonald, J. U.	Chief Engineer	31 days	4.032	125.00
Hall, E. L.	Chemist	31 days	2.419	75.00
Schirmer, C.	Clerk	31 days	2.419	75.00
Creed, W.	Gas maker	10 days	3.387	33.85
Sullivan, J.	Gas maker	31 days	3.387	105.00
Curtis, B.	Gas maker	31 days	3.387	105.00
Cummings, T.	Gas maker	29 days	3.387	98.25
Crawford, Frank	Gas maker	7 days	3.387	23.70
Dezerillo, T.	Gas maker	9 4-8 days	3.387	
	Gas m'k'r h'lp	2 days	2.741	
	Laborer	10 ½ days	2.50	63.00
Hogan, P.	Gas makers h'l'	23 days	2.741	
	Laborer	6 days	2.50	78.05
Heinckman, J. M.	Gas maker	1 day	3.387	
	Coal passer	30 days	2.741	85.65
Daly, J.	Coal passer	31 days	2.741	85.00
Savage, James	Coal passer	34 days	2.741	65.80
Herlihy, P.	Coal passer	31 days	2.741	85.00
Gatto, F.	Coal passer	31 days	2.741	85.00
Burke, T.	Coal passer	31 days	2.741	85.00
Bowling, J. B.	Coal passer	30 days	2.741	82.25
Kennedy, M.	Coal passer	29 days	2.741	79.50
Foley, M.	Coal passer	30 days	2.741	82.25
Tanner, M. T.	Engineer	11 days	3.218	35.40
Moore, A. J.	Engineer	30 3-16 days	3.218	97.15
Free, B. F.	Engineer	30 days	3.218	96.55
Hepburn, J.	Engineer	10 days	1.25	
		21 days	3.218	80.10
Howard, V.	Engineer	10 days	3.218	32.20
McGuire, M.	Fireman	30 4-8 days	2.741	83.65
Nimmrat, F.	Fireman	31 days	2.741	85.00
Peterson, J.	Fireman	31 days	2.741	85.00
Lewis, G.	Oiler	31 days	2.50	77.50
Elsley, J. W.	Boiler cleaner	30 days	2.50	75.00
Austin, T.	Laborer	34½ days	2.50	85.95
Lyons, J.	Fuel mixer	31 days	2.75	85.25
Murphy, E.	Fuel mixer	31 days	2.75	85.25
Bonnell, C.	Fuel mixer	31 days	2.75	85.25
McCarty, Jerry	Fuel mixer	31 3-16 days	2.75	85.75
Bowler, J.	Fuel mixer	31 3-16 days	2.75	85.75
Fitzpatrick, J.	Purifier	31 days	2.741	85.00

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Name	Occupation	Days	Rate	
Hagen, P.	Valveman	31 days	\$2.741	\$ 85.00
Trainor, J. T.	Valveman	31 days	2.741	85.00
Duncan, W.	Blacksmith h'l	34 6-8 days	3.50	118.10
McCabe, C. W.	Blacksmith h'l	31 2-8 days	2.50	78.40
Hadeler, C.	Pipe fitter	27 3-16 days	3.25	88.35
Flood, R.	Pipe fitter h'p	25 days	2.50	62.50
Kern, Geo.	Laborer	23 days	2.50	57.50
Bouschin, C.	Carpenter	4 days	3.225	12.90
Allen, M.	Carpenter hlpr	4 days	2.50	10.00
Toner, J.	Laborer	26 4-8 days	2.50	66.25
Pilgrim, G.	Laborer	1 day	2.50	
	Fire cleaner	7 days	2.75	
		14 days	1.25	39.25
Vandruff, H. F.	Laborer	19 2-8 days	2.50	48.15
Sullivan, J. J.	Engineer	16 6-8 days	3.218	53.90
Karsborg, F.	Laborer	17 days	2.50	42.50
Philip, J.	Laborer	14 days	2.50	35.00
Bernu, A.	Laborer	14 4-8 days	2.50	36.25
Johnson, H.	Laborer	13 5-16 days	2.50	33.30
Hansen, W.	Laborer	12½ days	2.50	30.95
Dwyer, G.	Laborer	26 days	1.25	32.50
Clasby, Thos.	Pipe fitter	26½ days	3.50	92.30
Griffin, J.	Pipe f't'r h'l'p	27 days	2.50	67.50
Trainor, F.	Pipe fitter	27½ days	3.25	88.95
Wegener, G. N.	Pipe f't'r h'l'p	27½ days	2.50	68.45
Drews, C.	Pipe fitter	28 4-8 days	3.25	92.65
Haley, J.	Pipe f't'r h'l'p	28 4-8 days	2.50	71.65
Dempsey, J.	Pipe fitter	28 11-16 days	3.25	93.25
Coulter, G.	Pipe f't'r h'l'p	28 3-16 days	2.50	70.45
Fulton, A. C.	Machinist	26 days	3.25	84.50
Yankee, A.	Machinist h'l'p	26 days	2.50	65.00
Laun, F.	Electrician	25 4-8 days	3.50	89.25
Fick, A.	Elec. helper	1 day	2.50	2.50
Begley, H.	Elec. helper	23 4-8 days	2.50	58.75
Rollet, T. W.	Carpenter	27 4-8 days	3.00	82.50
Storry, F.	Carpenter h'l'p	25 days	2.75	68.75
Cunningham, J.	Mason	21 6-8 days	4.50	97.90
Kennedy, C.	Mason helper	22 6-8 days	2.75	62.55
Douglas, G. C.	Gen. Mechanic	16½ days	3.00	48.75
Noble, J. M.	Painter	27 4-8 days	2.50	68.75
Hall, Josias	Painter h'l'p	27 days	2.50	67.50
Langer, J.	Janitor	30 days	2.00	60.00
Wweeney, C.	Laborer	26 13-16 days	2.50	
		1 4-8 days	2.741	71.10
Williams, E.	Storekeeper	31 days	1.62	50.00
Powers, W.	Cartman	31 days	2.50	77.50
Kane, J.	Yardman	31 days	2.50	77.50
Bowler, W.	Laborer	27 4-8 days	2.50	68.75
Hurson, M.	Laborer	26 days	2.50	65.00
Fleming, T.	Laborer	13 days	2.50	
	Fire cleaner	16 days	2.75	76.50
O'Brien, F.	Laborer	27 4-8 days	2.50	68.75
Bowler, E.	Coal passer	21 days	2.741	
	Laborer	6 days	2.50	72.55
Lawless, J.	Laborer	26 4-8 days	2.50	66.25
Kraymer, A.	Laborer	26 days	2.50	65.00
Carson, S.	Laborer	27 4-8 days	2.50	68.75
Tuxon, C.	Coal passer	23 days	2.741	
	Laborer	6 6-8 days	2.50	79.95
Coleman, P.	Laborer	27 1-8 days	2.50	67.80
Stanton, T.	Laborer	1 day	2.50	2.50
Lavoie, J.	Laborer	26 days	2.50	65.00
Howley, J.	Laborer	27 4-8 days	2.50	68.75
Clifford, J.	Laborer	27 4-8 days	2.50	68.75
Dempsey, P.	Laborer	29 4-8 days	2.50	73.75
Nelson, T.	Laborer	27 4-8 days	2.50	68.75
Carmody, S.	Laborer	26 days	2.50	65.00
McInerny, J.	Laborer	27 4-8 days	2.50	68.75
Smith, M.	Laborer	26 days	2.50	65.00
Crimmons, M.	Laborer	26 days	2.50	65.00
Lynch, P.	Fire cleaner	16 days	2.75	
	Laborer	11 5-8 days	2.50	73.05
Galvin, A.	Laborer	8 days	2.50	20.00

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Name	Occupation	Days	Rate	
Craig, J.	Coal passer	17 days	\$2.741	\$
	Laborer	10 days	2.50	71.60
McCarty, M.	Laborer	24 2-8 days	2.50	
	Coalpasser	2 2-8 days	2.741	66.80
McKeon, D.	Laborer	27 days	2.50	67.50
Stockton, D.	Laborer	25½ days	2.50	63.45
Coulter, J.	Mason	7 days	6.00	42.00
Malone, R.	Foreman	31 days	3.221	100.00
Mills, A. R.	Watchman	31 days	1.612	50.00
Devlin, G.	Fireman	28 days	2.741	76.75
Lenahan, T. G.	Engineer	25 4-8 days	3.218	82.05
Callaghan, J.	Engineer	25 4-8 days	3.218	82.05
Irwin, J.	Laborer	10 days	2.50	25.00
Smith, J.	Laborer	12 3-16 days	2.50	30.15
Eddy, J. A.	Laborer	13 4-8 days	2.50	33.75
Carmody, T.	Fireman	7 days	2.741	19.20
Machara, L.	Fireman	7 days	2.75	19.20
Ruddy, W.	Fireman	6 days	2.75	16.50
Swan, G. W.	Fireman	8 days	2.75	22.00
Murphy, G.	Fireman	6 days	2.75	16.50
O'Brien, J.	Fireman	6 days	2.75	16.50
Bruhns, G.	Fireman	6½ days	2.75	17.55
Hogan, W.	Fireman	6 days	2.75	16.50
Manson, D.	Fireman	6 days	2.75	16.50
Burns, P.	Fireman	7 days	2.75	19.25
Klingelhofer, D.	Fireman	7 days	2.75	19.25
Fitzgerald, W.	Fireman	31 days	2.741	85.00
Kilbury, W.	Engineer	29 4-8 days	3.281	94.90
Papst, H. M.	Supt.	1 month		150.00
Total				8615.40

PURCHASING DEPARTMENT.

Name	Occupation	Days	Rate	
Gower, T. P.	Purchg. agent	1 month	\$	\$200.00
Goad, W. F.	Bookkeeper	1 month		100.00
Du Fosse, A. C.	Bookkeeper	1 month		85.00
Bridgeman, G. T.	Stenographer	½ month	70.00	35.00
Davenport, D. D.	Stenographer	17 days	65.00	35.65
Koster, A.	Office boy	1 day	.65	.65
Mortola, A.	Office boy	27 days	30.00	26.15
Byrne, F. M.	Store keeper	1 month		100.00
Kingston, J. H.	Store keeper	1 month		75.00
Feeley, G.	Store keeper	1 month		75.00
Meyer, H. H.	Store clerk	21 days	2.50	52.50
Peacock, G.	Storekpr helper	26 2-9 days	2.35	61.60
Ripley, R.	Store helper	28 1-9 days	2.35	66.05
Miller, C.	Night clerk	1 month		70.00
Patterson, J. S.	Pipe paint'r.&c.	26 days	2.00	52.00
Williams, O.	Laborer	9 days	2.50	22.50
Wenks, J.	Carpenter	6 6-9 days	2.75	18.35
Total				\$1075.45

GAS SERVICE DEPARTMENT.

Name	Occupation	Days	Rate	
Kelly, J. J.	Supt.	1 month	\$	\$185.00
Devlin, E.	Fitter	26 days	3.25	84.50
Buckley, J.	Fitter	26 days	3.25	84.50
Kearns, F.	Fitter	24½ days	3.25	79.60
Francis, J.	Fitter	28½ days	3.25	92.60
O'Connor, J.	Fitter	26 days	3.25	84.50
Keppeler, J.	Fitter	32 days	3.25	104.00
Berkhout, P.	Fitter	29½ days	3.25	95.85
Parsons, W.	Fitter	26 days	3.25	84.50
Coleson, J.	Fitter	26 days	3.25	84.50
Sullivan, J.	Fitter	24 days	3.25	78.00
O'Connor, T.	Fitter	28 days	3.25	91.00
McKeown, T.	Fitter	26 days	3.25	84.50
McKeown, B.	Fitter	25½ days	3.25	82.85

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Name	Occupation	Days	Rate	
O'Connor, S.	Fitter	23 days	\$3.25	\$74.75
Curran, T.	Fitter	25 days	3.25	81.25
J. Manning	Fitter	27 days	3.25	87.75
Reynolds, J.	Fitter	27½ days	3.25	89.35
Callahan, T.	Fitter	24 days	3.25	78.00
Collins, J.	Laborer	26 days	2.50	65.00
Manning, D.	Laborer	26 days	2.50	65.00
Cullen, C.	Laborer	24½ days	2.50	61.25
Toland, J.	Laborer	28½ days	2.50	71.25
Curran, J.	Laborer	26 days	2.50	65.00
Driscoll, T.	Laborer	32 days	2.50	80.00
Bagley, D.	Laborer	29½ days	2.50	73.75
Staginerro, J.	Laborer	26 days	2.50	65.00
Ward, J.	Laborer	27 days	2.50	67.50
Spillane, T.	Laborer	22 days	2.50	55.00
Murphy, J.	Laborer	28 days	2.50	70.00
O'Connor, J. M.	Laborer	26 days	2.50	65.00
Killilea, P.	Laborer	25½ days	2.50	63.75
Fox, J.	Laborer	18 days	2.50	45.00
Basso, A.	Laborer	25 days	2.50	62.50
Nyland, M.	Laborer	28 days	2.50	70.00
Jones, R.	Laborer	29½ days	2.50	73.75
Curran, W.	Laborer	26 days	2.50	65.00
Dorland, T.	Laborer	16 days	2.50	40.00
Crowley, J.	Laborer	25½ days	2.50	63.75
Skelly, M.	Drip pump	26 days	2.89	75.15
Reinhart, J.	Machinist		2.89	83.10
Plate, W.	Valve tender	1 month	100.00	100.00
Keenan, J.	Night watch	31 days	2.75	85.25
Sharkey, C.	Laborer	24½ days	2.50	60.65

Total \$3418.65

GAS MAINS DEPARTMENT.

Hallett, A.	Foreman	29½ days	\$3.50	\$104.10
Murphy, M.	Caulker	29½ days	3.25	95.05
McCarthy, J.	Extra caulker	25½ days	3.25	
	Laborer	2 days	2.50	87.85
Collins, M.	Laborer	28 days	2.50	70.00
Sullivan, J.	Laborer	28 days	2.50	70.00
Mullen, B.	Laborer	22 days	2.50	55.00
Murphy, B.	Laborer	25 days	2.50	62.50
Murphy, J.	Laborer	25 days	2.50	62.50
Hammers, J.	Laborer	25 days	2.50	62.50
Mulverhill, E.	Laborer	22 days	2.50	55.00
O'Brien, T.	Laborer	26 days	2.50	65.00
Le Leivre, F.	Laborer	17½ days	2.50	43.75
McLaughlin, P.	Laborer	29 days	2.50	72.50
Lynch, M.	Laborer	31 days	2.50	77.50
Fleming, T.	Laborer	31 days	2.50	77.50
Byron, P.	Laborer	31 days	2.50	77.50
Tully, M.	Laborer	29 days	2.50	72.50
Mahoney, Jerry	Laborer	5 days	2.50	12.50
Collins, C.	Laborer	29 days	2.50	72.50
Phelan, R.	Laborer	30 days	2.50	75.00
Lange, O. F.	Foreman	31 days	3.50	108.50
Barry, G.	Caulker	31 days	3.25	100.75
Kruse, B.	Laborer	31 days	2.50	77.50
Murphy, T.	Laborer	31 days	2.50	77.50
Stack, M.	Laborer	30 days	2.50	75.00
McSweeney, J.	Laborer	28½ days	2.50	71.25
Hart, J.	Laborer	11½ days	2.50	31.25
Darmody, M.	Laborer	28 days	2.50	70.00

Total \$1982.50

LIGHTING STREETS AND PUBLIC BUILDINGS 543

GAS METER REPAIR DEPARTMENT.

Name	Occupation	Days	Rate	
Schwartz, S.	Foreman	1 month	\$135.00	\$135.00
Barkley, J. M.	Meter tester	27½ days	3.425	94.20
Davis, M.	Meter repairer	26 days	3.425	89.05
Bearwald, B.	Meter repairer	26 days	3.425	89.05
Bearwald, H.	Meter repairer	24 days	3.425	82.20
Bearwald, T.	Meter repairer	26 days	3.425	89.05
Smith, W. S.	Meter repairer	25½ days	3.425	87.35
Linquist, Carl	Tinsmith	29 days	3.425	99.30
Gray, D.	Meter repairer	25 days	3.425	85.60
Reilly, J.	Tinsmith	29 days	3.425	99.30
Sena, H.	Meter repairer	26 days	3.425	89.05
Sena, Gus	Meter repairer	25 days	3.425	85.60
Schwartz, G.	Meter repairer	27 days	3.425	92.45
Cleveland, H. S.	Connect'n mkr	26 days	3.25	84.50
Matthews, D.	Stove repairer	26 days	3.25	84.50
Schwartz, A.	Cleaning m'trs	26 days	3.00	78.00
McGee, Peter	Yardman	26 days	2.75	71.50
McDonald, A.	Apprentice	25 days	2.25	56.25
Schath, H.	Apprentice	26 days	1.50	39.00
Total.....				\$1630.95

GAS METER DEPARTMENT.

Von Ploennis, W.	Foreman	1 month	\$110.00	\$110.00
Tucker, H.	Inspector	1 month	100.00	100.00
O'Connor, D.	Inspector	1 month	100.00	100.00
Ensigner, F.	Meter inspect'r	1 month	85.00	85.00
Gibson, T.	Meter setter	26 days	3.65	94.90
Breslin, J.	Meter setter	27 days	3.65	98.55
Cerf, B.	Meter setter	23 days	3.65	83.95
Kraws, P.	Meter setter	26½ days	3.25	85.30
Hixon, L.	Meter setter	26½ days	3.25	85.30
Kelly, G.	Meter setter	26 days	3.25	84.50
Kelly, F.	Meter setter	34 days	3.25	110.50
Myers, W.	Meter setter	21½ days	3.25	69.85
Fennessey, W.	Meter setter	24½ days	3.25	79.60
Cavanaugh, C.	Docking meters	27 7-10 days	3.50	96.95
Dugan, T.	Docking meters	29 7-10 days	3.50	103.95
Kelly, J.	Helper	22½ days	2.25	50.60
Mackels, D.	Helper	26 days	2.25	58.50
Dickson, J.	Helper	29½ days	2.25	66.35
Total.....				\$1,563.80

GAS STOVE DEPT. (Kelly).

Brandtzen, H	Stove fitter	24 days	\$3.65	\$ 87.60
Purcell, M.	Stove fitter	29 days	3.65	105.85
Miller, R.	Stove fitter	26 days	3.65	94.90
Rayfield, H.	Stove fitter	26 days	3.25	84.50
Daly, J.	Helper	7 days	2.25	15.75
Olsen, E.	Stove fitter	22 days	3.25	73.10
Reirdon, J.	Helper	28 days	2.25	63.00
Anthony, N.	Helper	26 days	2.25	58.50
Moran, W.	Helper	19½ days	2.25	43.30
Montague, E.	Helper	16½ days	2.25	37.65
Miller, W.	Helper	24 days	2.25	54.00
Total.....				\$718.15

ELECTRICAL DISTRIBUTION DEPT.

Reynolds, L. E.	Supt.	1 month	\$200.00	\$200.00
Torrey, E.	Time keeper	1 month	75.00	75.00
Orrick, M. S.	Clerk	1 month	90.00	90.00
Merkelbach, E.	Stenographer	1 month	45.00	45.00
McMillan, W.	Inspector	1 month	85.00	85.00

Name	Occupation	Days	Rate	
Joslin, A. V.	Inspector	1 month	\$80.00	\$80.00
Riter, P. J.	Inspector	1 month	85.00	85.00
Butler, W. E.	Inspector	1 month	75.00	75.00
Finley, J. G.	Foreman	1 month	100.00	100.00
Cohn, S.	Meter Insp'r.	1 month	95.00	95.00
Bigelow, T. C.	Meter tester	1 mo. and O. T.	70.00	74.05
Fish, H. K.	Meter tester	25 da. and O. T.	70.00	71.35
Mann, E. P.	Meter tester	1 mo. and O. T.	70.00	75.40
Church, T. A.	Meter tester	1 mo. and O. T.	70.00	75.40
Eeasay, C. J.	Jointer	1 month	100.00	100.00
Owens, W.	Jointer	30 1/2 days	4.00	121.50
Anderson, T.	Helper	27 days	3.00	81.00
Brandeman, H.	Helper	1 month	70.00	70.00
Theis, L.	Foreman	28 1/2 days	4.00	113.50
Counihan, J.	Wireman	27 1/2 days	3.50	96.70
Taylor, H. B.	Wireman	26 days	3.50	91.00
Frey, C.	Wireman	27 1/2 days	3.50	97.55
Lorscheter, G. J.	Wireman	28 1/2 days	3.50	98.45
Jackson, J.	Wireman	19 1/2 days	3.50	69.15
Nelson, N. S.	Driver	26 1/2 days	2.50	66.25
Hagan, H. A.	Foreman	1 month	100.00	100.00
Johnson, J.	Sub-foreman	27 1/2 days	2.75	75.95
Hanson, C.	Laborer	26 1/2 days	2.50	65.30
McNamara, N.	Laborer	25 1/2 days	2.50	63.45
Steininger, C. A.	Laborer	30 days	2.50	75.00
Whelan, W.	Laborer	30 days	2.50	75.00
Ferini, S. D.	Driver	31 1/2 days	2.50	78.15
Brandt, A. N.	Gen. foreman	1 month	125.00	125.00
Keefe, D.	Foreman	30 1/2 days	110.00	129.00
Sproul, E.	Foreman	29 1/2 days	4.00	118.50
Desmond, D.	Lineman	33 1/2 days	3.50	118.55
Ball, F.	Lineman	28 days	3.50	98.00
Cameron, D.	Lineman	28 1/2 days	3.50	99.75
Murphy, P.	Lineman	31 1/2 days	3.50	109.80
Cameron, J. A.	Lineman	29 days	3.50	101.50
Sproul, A. F.	Lineman	33 1/2 days	3.50	117.70
Blanchard, R. W.	Lineman	30 1/2 days	3.50	105.90
Durrell, E. J.	Lineman	30 1/2 days	3.50	105.45
Boden, D. A.	Comb. man	35 1/2 days	3.50	124.70
Crompton, C. H.	Helper	33 1/2 days	2.50	82.80
Davis, B. N.	Helper	32 1/2 days	2.50	81.90
Elliott, T. R.	Helper	28 1/2 days	2.50	71.25
Grigsby, H.	Helper	32 1/2 days	2.50	81.90
Rathbun, R. B.	Helper	15 days	2.50	37.50
Hahn, W.	Helper	1 day	2.50	2.50
Carroll, J. W.	Driver	9 1/2 days	2.50	24.40
Tejeda, A.	Painter	28 1/2 days	2.25	64.15
Cook, F.	Painter	28 days	2.25	63.00
Badger, G.	Mast trimmer	31 days	90.00	90.00
Beebee, D. H.	Mast trimmer	31 days	90.00	90.00
Allison, A.	Com'l. trimmer	31 days	80.00	80.00
Archambault, C. C.	Com'l. trimmer	31 days	80.00	80.00
Baines, R. E.	Com'l. trimmer	31 days	80.00	80.00
Cowhig, J.	Com'l. trimmer	31 days	80.00	80.00
Coyle, W. F.	Com'l. trimmer	31 days	80.00	80.00
Doherty, J. B.	Com'l. trimmer	31 days	80.00	80.00
Douglas, J. R.	Com'l. trimmer	31 days	80.00	80.00
Fisher, H. M.	Com'l. trimmer	31 1/2 days	80.00	81.95
Frick, J.	Com'l. trimmer	31 days	80.00	80.00
Goodhart, L. E.	Com'l. trimmer	31 days	80.00	80.00
Grant, B. I.	Com'l. trimmer	31 1/2 days	80.00	81.30
Grey, H. H.	Com'l. trimmer	31 days	80.00	80.00
Hathaway, H. L.	Com'l. trimmer	31 days	80.00	80.00
Hubinette, E. R.	Com'l. trimmer	31 days	80.00	80.00
Kennard, J. H.	Com'l. trimmer	31 days	80.00	80.00
McQueeney, J.	Com'l. trimmer	10 days	80.00	25.80
Smith, A.	Com'l. trimmer	31 days	80.00	80.00
Smith, C. C.	Com'l. trimmer	31 days	80.00	80.00
Smith, Geo.	Com'l. trimmer	31 days	80.00	80.00
Williamson, E.	Com'l. trimmer	31 days	80.00	80.00
Wolf, H.	Com'l. trimmer	31 days	80.00	80.00
Roberts, J. A.	Com'l. trimmer	31 days	80.00	80.00
Schafer, W.	Hospital	26 days	3.50	91.00
Phal, A. J.	Survey Insp'r.	2 days	75.00	5.75

Ensign, W. H.	Draughtsman	3 7-16 days	\$3.00	\$10.30
Corey, A.	Wireman	20½ days	3.50	73.05
Theis, A. J.	App. wireman	28½ days	2.50	70.95
Brickman, A.	Laborer	24½ days	2.50	60.65
Hubbart, M.	Laborer	17 days	2.50	42.50
Phillips, A. J.	Laborer	33½ days	2.50	84.05
Rosenblad, C.	Laborer	30½ days	2.50	75.30
Soderlund, E.	Laborer	27½ days	2.50	68.75
Dahala, J.	Laborer	28½ days	2.50	70.65
Haeckl, G.	Laborer	22½ days	2.50	55.65
Hillgren, J.	Laborer	14½ days	2.50	36.25
Murphy, J.	Laborer	27½ days	2.50	69.40
Shackleton, G.	Laborer	25½ days	2.50	63.75
O'Malley, F.	Laborer	25½ days	2.50	62.80
Heroux, A.	Lineman	28½ days	3.50	98.45
Larimer, J.	Lineman	3 days	3.50	10.50
Smith, T. D.	Lineman	28½ days	3.50	98.45
Scott, J. A.	Lineman	28 days	3.50	98.00
Bartholomew, F. W.	Lineman	27 days	3.50	94.50
Downey, R. L.	Lineman	28½ days	3.50	98.90
Leslie, J. W.	Lineman	27½ days	3.50	94.95
Fulton, J. R.	Lineman	28½ days	3.50	100.20
Fonseca, A. W.	Lineman	28½ days	3.50	99.30
Zeilly, W. R.	Lineman	26½ days	3.50	92.75
Lee, W. E.	Lineman	29½ days	3.50	104.15
Early, J. T.	Lineman	26 days	3.50	91.00
Caney, W. N.	Lineman	29½ days	3.50	103.25
Wilson, T. L.	Lineman	27½ days	3.50	96.70
Ripley, G. D.	Lineman	20½ days	3.50	72.65
Hurley, E. S.	Lineman	27 days	3.50	94.50
Mullen, E. F.	Lineman	15½ days	3.50	54.70
Hallam, H. E.	Lineman	25½ days	3.50	90.55
Johnson, C. E.	Jointer	17½ days	4.00	68.00
Johnson, C. E.	Lineman	8½ days	3.50	29.30
Gunther, J. J.	Lineman	20 days	3.50	70.00
Bidleman, W. A.	Lineman	18 days	3.50	63.00
Wilson, Fred	Lineman	16½ days	3.50	57.75
Cunnam, F.	Lineman	8 days	3.50	28.00
Morris, W. P.	Lineman	12 days	3.50	42.00
Dukeshier, C.	App. lineman	30½ days	2.50	75.30
Blowers, E.	App. lineman	28½ days	2.50	70.65
De Witt, A. P.	App. lineman	29½ days	2.50	73.45
Piper, G.	App. lineman	27 days	2.50	67.50
Condor, R. W.	App. lineman	13½ days	2.50	33.75
Durrell, L.	App. lineman	33½ days	2.50	83.15
Mistelski, E.	App. lineman	28½ days	2.50	70.65
Jesser, H. H.	Wireman	15 days	3.50	52.50
Willits, W.	Comb. man	31½ days	3.50	111.15
Gannon, J.	Helper	33½ days	2.50	84.70
Hood, E. M.	Helper	34½ days	2.50	86.55
Danton, F.	M'st tr'm & h'l	28 days	85.00	85.00
Flatley, G.	Mast trimmer	1 month	90.00	90.00
Furlong, T.	Mast trimmer	1 month	90.00	90.00
Johnstone, S. A.	Mast trimmer	1 month	90.00	90.00
Leonard, H.	Mast trimmer	1 month	90.00	90.00
Moore, S.	Mast trimmer	1 month	90.00	90.00
Shutt, B. R.	Mast trimmer	1 month	90.00	90.00
Smith, E.	Mast trimmer	1 month	90.00	90.00
Corey, A.	Service man	½ days	3.50	3.10
Harmon, J.	Lineman	3 ½ days	3.50	12.25
Kankuskie,	Lineman	11½ days	3.50	39.40

\$10,987.90

Total.....

\$67,605.70

EXHIBIT No. 5.

Exposition on Depreciation of Gas Plants in Various Cities.

In regard to amount of depreciation, we beg to submit the following extracts from authorities on the subject:

Mr. James Blake Cahoon, an eminent authority, in a paper read before League of American Municipalities, held in Syracuse, N. Y., Sept. 19th to 22d, 1899:

"At the annual meeting of the Street Railway Association, in 1898, the question of including taxes in the operating expenses was left open after a long discussion, as it had been the custom for years to consider taxes as not a part of the operating expenses, but as something extraneous thereto, which should be a deduction from income, as should also Interest on Investment, Interest on Current Liabilities, Investment Insurance (or Depreciation) and Reserve for Sinking Fund.

"Why I take this stand, being open as it is to criticism, is for the following reason: We are not private companies in the strict sense of the word, we are operating public utilities; and the public is going to demand, and is demanding at the present time, to know what it costs us to deliver our product to the consumer, and what our profits are. Certainly, a part of our cost is taxes; and again before we can declare a dividend we must take care of the interest on our bonds, and also on our current liabilities. In regard to investment insurance, or depreciation, as it is often termed, this is truly a factor of cost. Every plant undergoes depreciation from year to year, and in order that the value of the plant may not be depreciated certain renewals must be made, and minor extensions or betterments added.

If we do not charge off each year, and expend as an investment in renewals and minor extensions and betterments, a certain portion of the original investment, the time comes in the course of seven or ten years, when we have got to borrow thousands and thousands of dollars to renew the plant, and it may be at a time that will be very inopportune. The best policy for ourselves, laying aside the whole question as to whether or not it is better as a source of protection from the public, is to recognize this factor, and include it in our cost of operating expenses.

A certain depreciation, determined on by experience, varying according to location and according to class of manufacture, we find will occur every year. Let us take, then, the yearly proportion on the basis of lasting so many years, and place it each year under the head of investment insurance, and use that in our business for minor extensions or betterments and renewals sufficient to keep our plant intact and in as good operating condition as when first purchased; or, in other words, maintain our plant in such a manner that if a question of being compelled to sell it comes up, we can show that we have maintained it in such a way that the original investment is not impaired in the slightest.

Again, as regards a Reserve for Sinking Fund. Many have held to the idea that if they issue bonds for a term of fifty years, we will say, and pay the interest right along, that is all they can be asked to do; that when the time comes they can refund them, and therefore it is unnecessary to make any provision for a reserve sufficient to redeem the bonds at maturity. Others, again, say that by the time the bonds become due, our income will have increased so materially that we shall have no difficulty in taking care of them; they will be only a minor charge at that time; part of them can be deemed and part renewed.

Neither of these views is the true economic way of looking at the subject. The only true way is to recognize the fact that the bonds must be redeemed at maturity, and to make provision for their redemption by setting aside each year such a reserve as will take care of the bonds at their maturity, charging this reserve as part of the operating expenses, or in other words, as one of the factors of the cost of our production. We may thus see that the cost of our product is legitimately represented by the four groups of accounts, Manufacturing, Distribution, General and Capital.

In the segregation and extension of accounts, he makes the following explanation under "depreciation."

This account includes the premium on the entire investment, usually reckoned at from 5 per cent to seven and one-half per cent., according to local conditions, which is to be set apart as a fund to provide for such replacements and extraordinary repairs as will maintain the plant in such condition that its present worth will always be equal to the original amount invested. To this end minor extensions or betterments for which it is deemed unnecessary to issue bonds or stock should be charged to the extent of the amount realized from the premium.

In the year 1897 the U. S. Government through a Demand Circular issued by the Department of Labor, endeavored to gather data respecting the Gas Works and Electric Light and Power Plants both private and municipal throughout the country. The Government was endeavoring to make a comparison between the operating cost of these several works, and in order that the fixed charges should be as near as possible the same, it provided in the circular certain rate for depreciation;

For fixed charges,
Interest on total investment,
Annual amount paid for licenses, or royalties,
Taxes for the year,

Annual depreciation on cost of buildings, 2 per cent.

Annual depreciation on the cost of equipment within works, 7 per cent.

Annual depreciation on the cost of distributing system, including cost of meters, 7 per cent.

In their schedule for electric plants under the head of "Fixed Charges" for interest on total investment,

Annual amount paid for licenses or royalties, taxes for the year.

Annual depreciation on the cost of buildings, 2 per cent.

Annual depreciation on cost of power generating plant, 5 per cent.

Annual depreciation on cost of Electric generating plant, 7 per cent.

Annual depreciation on cost of underground distributing system, 5 per cent.

Annual depreciation on cost of annual distributing system, 10 per cent.

This would tend to show that the Department of Labor in considering this matter, considers the above percentages of depreciation as fair. They include these items under the general head of "cost of Administration, Manufacturing, Distribution and Maintenance.

Mr. Chas. Sandell, one of the best known accountants in Great Britain, who has been engaged since 1867 as Auditor and Accountant for forty companies in Great Britain, makes the following statement in an article printed in the "Gas World," on Jan. 19, 1901:

"We have it on the highest authority that the life of the various parts of a Gas Works should be taken as follows:

Buildings—50 years.

Retorts, benches and ironwork—12 years.

Station mains—20 years.

Machinery—15 years.

Gas holder foundations, masonry—45 years.

Gas Holder Tanks, iron—35 years.

Gas Holders—27 years.

Mains—40 years.

Service Pipes—10 years.

In a telegram received from Mr. Geo. J. Roberts, the Chief Engineer of the United Gas Improvement Company of Philadelphia, which concern is at present operating in the neighborhood of 100 different plants in the large cities in the country, he advises us that "two per cent. is a proper charge for depreciation, providing renewals, repairs and replacement are charged against operating," as his company is in the habit of doing. Upon information that we simply charged repairs and no renewals or replacements, Mr. Roberts says that the depreciation charge should be from 5 to 6½ per cent. Of course the proper way to arrive at the proper depreciation is to take for some years back the amount of money actually expended on repairs and replacements necessary to keep the plant up to its original value. With our own case, we find that it will take fully 5 per cent, to accomplish this end.

In comparing the amount of depreciation which we consider a fair charge with the depreciation charge in other places, local conditions must be considered to a very large degree. We are troubled with salt fogs in this city which have an extremely corrosive effect on all parts of plant exposed thereto. In the lower districts of the city which have been filled in, and where the ground is continually soaked with the waters from the Bay, the pipes certainly cannot last as long as they do in the sand or other soils in other places. The more or less exposed locations left by property owners for meters, certainly does not add to the life of a meter, where in the East meters must be housed properly on account of the changes of the severe extremes in weather.

THE UNITED GAS IMPROVEMENT COMPANY.

Broad and Arch Streets.

Philadelphia, February 18, 1905.

MR. SAMUEL NAPHTALY,

San Francisco Gas & Electric Co., San Francisco, Cal.

Dear Sir:—Enclosed please find copies of telegrams which I have just sent you. As we have never kept our books in the method indicated in your last telegram, my experience does not give me any figures that I can quote. Our method of bookkeeping has been to charge all repairs, renewals and displacements to operating, and therefore my knowledge on the subject of depreciation is based on this.

I can readily see where a wide variation can exist in various towns, as it would depend very largely upon how well the engineering has been thought out and the various steps that had been taken as the companies grew. In some cases I can call to mind, the depreciation should be as high as 10%, on account of extremely poor engineering.

I regret that I cannot help you more than this.

Yours truly,

(Signed) G. J. ROBERTS,

Engineer in Chief.

PAINTING STREETS AND PUBLIC BUILDINGS

EXHIBIT No. 6.

Detail of Office, Supplies, Electric, 1904.

OFFICE SUPPLIES, ELECTRIC, 1904.

Welsbach Supplies.....	\$ 22.55
Petty cash, carfare, etc.....	223.02
Hardware, etc.....	34.03
Repairs to furniture.....	17.42
Office Furniture, cabinets, etc.....	361.80
Rubber stamps, daters, etc.....	129.93
Addressograph Supplies.....	611.95
Stationery.....	771.66
Printing—electric bills, ledgers, statement books, blanks.....	3,876.00
Brooms, etc. (janitor's supplies).....	22.95
Postage stamps.....	40.60
Mats, carpets, runners, etc.....	45.76
Electric signs.....	54.00
Coin sacks.....	4.50
Painting sign.....	19.69
Supplies, dispensed through store-room.....	67.65
	\$6,303.51

SAN FRANCISCO GAS & ELECTRIC CO.,

ALLAN POLLOK, General Manager.

EXHIBIT No. 7.

OFFICE EXPENSE, ELECTRIC, 1904.

Rubber stamps, etc.....	\$ 9.46
Laundry, window cleaning, etc.....	53.88
Repairs to locks, keys, etc.....	3.60
Hardware and paints.....	10.61
Addressograph supplies.....	50.10
Repairs to office furniture.....	11.48
Telephone service.....	1,482.69
Water.....	67.68
Painting signs, etc.....	22.64
Telegrams.....	5.24
Rental of clock.....	3.15
Petty cash, carfares.....	95.81
Newspaper subscriptions.....	10.38
Moving safe.....	10.00
Stationery.....	152.06
Printing.....	290.87
Buggy hire.....	4.50
Gas and electricity used by Company.....	677.13
	\$ 2,961.28

Respectfully submitted,

SAN FRANCISCO GAS & ELECTRIC CO.,

ALLAN POLLOK, General Manager.

EXHIBIT No. 8.

INCIDENTAL EXPENSE, ELECTRIC, 1904.

Association Dues.....	\$ 280.50
Hospital Expense.....	62.50
Services of consulting engineer.....	875.00
Collection Agency Fees.....	84.60
Car fares, petty cash, postage stamps, etc.....	339.04
Auditing of general books.....	1,638.80
Technical periodicals.....	46.35
Municipal licenses.....	502.00
Union Trust Co., rent of safe deposit boxes and fees distributing coupons.....	452.30
Employees Fidelity Bonds.....	259.05
Window cleaning.....	50.00
General Superintendent's trip East, experts employed and reports to examine into and purchase Machinery, etc., work now going on at Potrero.....	1,198.52
Appraising property.....	154.50
Associated Charities, Potrero Free Kindergarten, etc.....	387.50
Teaming.....	33.50
Stenographic report on fixing of rates 1904.....	114.65
Water, lumber, etc.....	161.92
J. F. Lawless, bonus to liquidate contract.....	1,250.00
Auxiliary Fire Alarm boxes.....	12.00
Automobile hire.....	54.62
Street watchman.....	250.00
City and County of San Francisco, proposal and award of contract advertising.....	14.70
Freight, moving safe and fitting keys.....	38.20
Gas and electricity used by company outside of main office.....	132.53
Store room expense.....	602.29
Paving, etc.....	60.38
Difference between general ledger and consumer's ledgers.....	655.81
Collector's Shorts year 1904.....	36.83
Difference between bills on hand due creditors and general ledger.....	277.00
Total.....	\$10,025.10

Respectfully submitted,
 SAN FRANCISCO GAS & ELECTRIC CO.,
 ALLAN POLLOK, General Manager.

EXHIBIT No. 9.

ELECTRIC REBATES 1904.

Summary.

Overtakes.....	\$ 3,338.99
Over charges.....	115.55
Reducing rates.....	3,574.50
Minimum charge.....	419.40
Lights out.....	12.05
Errors in extions on Bills and Bill Books.....	546.66
To satisfy.....	278.40
Donations.....	537.00
Cancelled charges.....	260.75
Duplicate entries.....	309.00
Failures.....	157.43
Fires.....	31.50
Included in City Contract.....	34.00
Company's current (At time of change of Ind. Co., Western Sugar Rfg. Co. was charged in error).....	49.80
A verage charge.....	67.80
Wiring condemned.....	2.00
Agreement with Supervisors.....	3,499.07
Total.....	\$13,233.90

SAN FRANCISCO GAS & ELECTRIC CO.,
 ALLAN POLLOK, General Manager.

EXHIBIT No. 10.

Rates charged for Gas in the principal cities of the United States, compiled by O. M. Tupper, Gas Inspector.

GAS RATES.

Principal cities of the United States.

Compiled February 25, 1905, by O. M. Tupper, Gas Inspector City and County of San Francisco.

City	Per M. Cubic Feet	Miles of Mains	Number Consumers
Los Angeles, Cal.	\$0.90	275	29,000
Oakland, Cal.	1.25	194	20,180
San Diego, Cal.	1.50	40	1,600
San Francisco, Cal.	1.00	280	69,840
Sacramento.	1.00	43	3,600
Denver, Col.	1.25	132	21,738
Washington, D. C.	1.00		36,323
Atlanta, Ga.	1.00	122	11,000
Chicago, Ill.	1.00	1,872	347,750
Louisville, Ky.	1.00	195	22,000
New Orleans, La.	1.25	254	19,000
Portland, Me.	1.25	45	6,000
Detroit, Mich.	1.00	420	69,000
Baltimore, Md.	1.10	465	66,000
Boston, Mass.	1.00	829	109,280
St. Paul, Minn.	1.30	155	12,379
St. Louis, Mo.	1.00	525	110,000
Newark, N. J.	1.00	522	63,169
Jersey City, N. J.	1.10	344	66,795
Albany, N. Y.	1.30	85	14,000
Buffalo, N. Y.	1.00	374	15,921
New York City, N. Y.	1.00	3,400	933,304
Cincinnati, O. ....	.85	450	40,000
Cleveland, O. ....	.75	475	39,000
Springfield, O.	1.00	52	2,900
Pittsburg, Pa.	1.00	330	19,187
Philadelphia, Pa.	1.00	1,320	226,799
Richmond, Va.	1.00	83	8,862
Seattle, Wash.	1.25	135	11,100
Tacoma, Wash.	1.50	30	2,601
Portland, Ore.	1.50	73	7,724

The investigation of the Board of Supervisors for the purpose of fixing a rate for gas and electricity commenced on February 13, 1905, and continued thereafter on February 16, February 20, February 24, February 27, February 28, 1905, at which hearings the exhibits herewith published were considered, together with the testimony of S. L. Naphtaly, Allan Pollok, Chas. L. Barrett, W. B. Bourn and Samuel Knight, representing the San Francisco Gas and Electric Company.

REPORT OF ARTIFICIAL LIGHT COMMITTEE.

On February 28, 1904, the majority of the committee on Artificial Lights presented the following:

MAJORITY REPORT.

To the Honorable Board of Supervisors of the City and County of San Francisco:

Gentlemen:—Your Committee on Artificial Lights respectfully begs leave to submit the following report in the matter of fixing the rates to be collected for furnishing heat, light and power to the City and County of San Francisco and the inhabitants thereof:

In the matter of fixing the minimum standard quality and illuminating power of gas, and the maximum rate to be charged therefor, for the year commencing July 1, 1905, and ending June 30, 1906.

A majority of your committee reports in favor of fixing the rate at 90 cents per 1000 cubic feet, and for street lights at the sum of 8.7 cents for single lights (incandescent) and 15 cents for three cluster incandescent lights.

In the matter of the rates for electricity for heat, light and power,

Your Committee recommends that the basic rate be fixed at nine cents per 1000 Watt Hours, and that the same discounts be allowed from the rate as heretofore fixed in the prevailing ordinance.

This is a reduction of two cents per 1000 Watt Hours upon the basic rate as fixed by the prevailing ordinance.

Your Committee also reports in favor of fixing the rates for power at nine cents per 1000 Watt Hours with the same discounts as provided for furnishing light.

In the matter of arc lights,

Your Committee reports that the rates be fixed as follows:

For each arc light burning twenty-four hours \$5.00 per week.

For each arc light burning from sunrise to sunset \$3.00 per week.

For each arc light burning from sunset to sunrise \$2.25 per week.

For each arc light burning from sunset to midnight \$1.75 per week.

For each arc light burning for six nights from sunset to 9:30 p. m. \$1.40 per week.

Your Committee has prepared ordinances in accordance with this report and recommends the same to your Honorable Board for passage.

W. W. SANDERSON.

GEO. B. McCLELLAN.

James L. Gallagher, a member of said Committee presented the following:

MINORITY REPORT.

I concur in that portion of the report relating to electricity, but will file minority report in matter of gas rates.

JAMES L. GALLAGHER.

Read by Clerk.

MINORITY REPORT OF ARTIFICIAL LIGHT COMMITTEE.

To the Honorable the Board of Supervisors
of the City and County of San Francisco.

Gentlemen—As a member of your Committee on Artificial Lights, I hereby report as follows:

That the estimate of the San Francisco Gas and Electric Company of the value of its plant, to wit, the sum of \$14,983,190.44, is grossly exaggerated, and it appears from admissions made by representatives of the company that the value of that part of the plant necessarily used in furnishing gas to the people of this city is less than \$6,500,000. That this gross exaggeration, together with the fact that it has appeared during the investigation that large sums have been included in the Company's statement of the cost of producing gas which are not properly chargeable to such cost makes it appear to me that the Board would not be justified in accepting the figures of the company as a basis upon which to fix a rate for gas for the coming year.

It has been shown by admissions of representatives of the company, that gas was, under conditions practically the same as the present, furnished and sold in this city by the large gas companies, previous to their combination in the San Francisco Gas and Electric Company, at so low a price as 50 cents per thousand cubic feet; and it has also been admitted that the Independent Gas Company fixed its maximum rate at 75 cents per thousand cubic feet, at points in this city where there was no other gas company supplying gas. The fact that this rate was fixed voluntarily by the Independent Gas Company when it could, if it so desired, have charged a higher rate, convinces me that a rate of 75 cents per thousand cubic feet will give to the company furnishing gas a fair profit, for the experience of the public in dealing with quasi public corporations does not permit us to believe that the company would voluntarily, in the absence of competition at the point where the gas was supplied, furnish gas at a rate that would not earn a fair profit.

These facts have become so widely known throughout the city, that there is a strong and urgent demand on the part of the people for some relief from the increased price, to wit, an average of ninety-seven cents per thousand cubic feet, now charged by the San Francisco Gas and Electric Company.

I, therefore, recommend that the rate for gas for the coming year be fixed at 75 cents per thousand cubic feet. This rate will, upon the figures given by the company, eliminating the charges for interest on the bonded and floating indebtedness, reducing the charge for depreciation from \$400,000 to \$200,000, and striking out the items charged on account of rebates and bad debts, leave the company a profit of \$533,531.90, or a little over eight (8) per cent per annum on a valuation of the plant at \$6,500,000 or over five (5) per cent upon a valuation of \$10,000,000.

Respectfully submitted,

JAMES L. GALLAGHER.

REPORTS NOT ADOPTED.

Supervisor Gallagher moved the adoption of the Minority Report.

Motion lost by the following vote:

Aye—Supervisor Gallagher—1.

Noes—Supervisors Alpers, Bent, Booth, Boxton, Brandenstein, Braunhart, Comte, Connor, D'Ancona, Eggers, Hocks, Lunstedt, McClellan, Payot, Rea, Rock, Sanderson—17.

Supervisor Sanderson moved the adoption of the Majority Report.

Motion lost by the following vote:

Ayes—Supervisors Alpers, Bent, Boxton, Gallagher, Lunstedt, McClellan, Rea, Sanderson—8.

Noes—Supervisors Booth, Brandenstein, Braunhart, Comte, Connor, D'Ancona, Eggers, Hock, Payot, Rock—10.

GAS RATES ORDINANCE.

Bill No. 1636, Ordinance No. —, entitled "Fixing the minimum standard quality and illuminating power of gas and the maximum rate and price to be charged therefor, for the year commencing July 1, 1905, and ending June 30, 1906," introduced with the Majority Report of Artificial Light Committee, was taken up on question of passage for printing.

MOTION TO AMEND.

Supervisor Brandenstein moved to amend the Bill by striking out the words and figures "ninety (90) cents" wherever occurring and by inserting in lieu thereof the words and figures "one dollar (\$1.00)."

Thereupon the question being taken, the amendment submitted by Supervisor Brandenstein was adopted by the following vote:

Ayes—Supervisors Booth, Brandenstein, Braunhart, Comte, Connor, D'Ancona, Eggers, Hocks, Payot, Rock—10.

Noes—Supervisors Alpers, Bent, Boxton, Gallagher, Lunstedt, McClellan, Rea, Sanderson—8.

PASSED FOR PRINTING.

Thereupon Bill No. 1636, as amended, was passed for printing by the following vote:

Ayes—Supervisors Booth, Brandenstein, Braunhart, Comte, Connor, D'Ancona, Eggers, Hocks, Payot, Rock—10.

Noes—Supervisors Alpers, Bent, Boxton, Gallagher, Lunstedt, McClellan, Rea, Sanderson—8.

ELECTRIC LIGHT RATES—ORDINANCE.

Supervisor Sanderson introduced Bill No. 1637, Ordinance No. —, entitled "Fixing the maximum rate and price to be charged for incandescent and electric lights and for electricity for heat and power purposes, for the year commencing July 1, 1905, and ending June 30, 1906," which was, on his motion passed for printing.

Thereafter, on March 13, 1905, the ordinance fixing rates for Electricity was finally adopted, which ordinance reads as follows:

BILL NO. 1637—ORDINANCE NO. 1434.

Fixing the maximum rate and price to be charged for incandescent and electric lights, and for electricity for heat and power purposes for the year commencing July 1, 1905, and ending June 30, 1906.

Be it ordained by the People of the City and County of San Francisco as follows:

Section 1. The maximum rate and price to be charged by any person, company or corporation for furnishing incandescent light to the City and County of San Francisco and the inhabitants thereof for the year commencing July 1, 1905, and ending June 30, 1906, is hereby fixed at nine (9) cents per one thousand (1000) watt hours.

From this rate discounts shall be allowed for quantity consumed per sixteen candle power lamp, as follows:

On a consumption per 16 candle power incandescent lamp of 2000 to 3000 watt hours in one month, 5 per cent.

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On a consumption per 16 candle power incandescent lamp of 3000 to 4000 watt hours in one month, 10 per cent.

On a consumption per 16 candle power incandescent lamp of 4000 to 5000 watt hours in one month, 15 per cent.

On a consumption per 16 candle power incandescent lamp of 5,000 to 6,000 watt hours in one month, 20 per cent.

On a consumption per 16 candle power incandescent lamp of 6000 to 7000 watt hours in one month, 25 per cent.

On a consumption per 16 candle power incandescent lamp of 7000 to 8000 watt hours in one month, 30 per cent.

On a consumption per 16 candle power incandescent lamp of 8000 to 9000 watt hours in one month, 35 per cent.

On a consumption per 16 candle power incandescent lamp of over 9000 watt hours per month, 40 per cent.

In estimating the discounts, one arc lamp shall be equivalent to two sixteen incandescent lamps for each ampere of current used by said arc lamp.

A charge of \$1.50 for the maintenance of a meter during any month may be made to any consumer whose bill for current furnished during such month does not exceed \$1.50, but in the event of such charge being made, no further charge shall be made for current furnished during said month to said consumer.

Section 2. The maximum rate and price to be charged by any person, company or corporation for furnishing arc lights of 7 amperes and pressure at each lamp of not less than 70 volts, of lamps of equal wattage, to the City and County of San Francisco and the inhabitants thereof for the year commencing July 1, 1905, and ending June 30 1906, is hereby fixed as follows:

For each arc light burning twenty-four hours, \$5.00 per week.

For each arc light burning from sunrise to sunset, \$3.00 per week.

For each arc light burning from sunset to sunrise, \$2.25 per week.

For each arc light burning from sunset to midnight, \$1.75 per week.

For each arc light burning for six nights from sunset to 9:30 p. m., \$1.40 per week.

Section 3. The maximum rate and price to be charged by any person, company or corporation for furnishing electricity for heat and power purposes to the City and County of San Francisco and the inhabitants thereof for the year commencing July 1, 1905, and ending June 30, 1906, is hereby fixed at 9 cents per 1000 watt hours, subject to the above discounts, each horse power of motor capacity connected being considered as equivalent to twelve and one-half sixteen candle power incandescent lamps.

Section 4. All Orders and Ordinances or parts of Orders and Ordinances in conflict with the provisions of this Ordinance are hereby repealed.

Section 5. This Ordinance shall take effect and be in force on the first day of July, 1905.

In Board of Supervisors, San Francisco, March 13, 1905.

After having been published five successive days, according to law, taken up and passed by the following vote.

Ayes—Supervisors Alpers, Bent, Booth, Boxton, Brandenstein, Braunhart, Comte, Connor, D'Ancona, Eggers, Gallagher, Hocks, Lunstedt, McClellan, Payot, Rea, Sanderson.

Absent—Supervisor Rock.

CHAS. W. FAY, Clerk.

Approved, San Francisco, March 14, 1905.

E. E. SCHMITZ,

Mayor and ex-officio President of the Board of Supervisors.

Hereafter, on March 20, 1905, the ordinance fixing Gas Rates was finally adopted which ordinance reads as follows:

BILL NO. 1636—ORDINANCE NO. 1442.

Fixing the minimum standard quality and illuminating power of gas, and the maximum rate and price to be charged therefor, for the year commencing July 1, 1905, and ending June 30, 1906.

Be it ordained by the People of the City and County of San Francisco as follows:

Section 1. The minimum standard quality and illuminating power of gas to be furnished by any person, company or corporation to be used in the City and County of San Francisco is hereby established at nineteen (19) candles, said candle power to be determined by the Board of Public Works of the City and County of San Francisco, and the maximum rate and price to be charged and collected therefor from consumers by any such person, company or corporation, for the year commencing July 1, 1905, and ending June 30, 1906, is hereby fixed and established at one dollar (\$1.00) per one thousand cubic feet.

Section 2. The maximum rate and price to be charged by any person, company or corporation for furnishing gas for lighting public buildings for the year commencing July 1, 1905, and ending June 30, 1906, is hereby fixed at one dollar (\$1.00) per one thousand cubic feet.

Section 3. The maximum rate and price to be charged by any person, company or corporation for furnishing incandescent gas lamps for lighting the public streets, parks or squares for the year commencing July 1, 1905, and ending June 30, 1906, is hereby fixed at eight and seven-tenths (8.7) cents per lamp per night, including care, lighting and extinguishing, each lamp to be kept burning from thirty (30) minutes after sunset until thirty (30) minutes before sunrise on the next day, and the number of such gas lamps may be increased or diminished by the Board of Supervisors, and subject to any moonlight schedule the Board may adopt, provided that the price of incandescent gas lamps of three lights each is hereby fixed at fifteen (15) cents a cluster lamp per night.

Section 4. The maximum rate and price to be charged by any person, company or corporation for furnishing gas for heating purposes for the year commencing July 1, 1905, and ending June 30, 1906, is hereby fixed at one dollar (\$1.00) per one thousand cubic feet.

Section 5. All Orders, Ordinances and Resolutions, and parts of all Orders, Ordinances and Resolutions in conflict with the provisions of this Ordinance are hereby repealed.

Section 6. This Ordinance shall take effect and be in force on the first day of July, 1905.

In Board of Supervisors, San Francisco, March 20, 1905.

After having been published five successive days, according to law, taken up and passed by the following vote:

Ayes—Supervisors Booth, Brandenstein, Braunhart, Comte, Connor, D'Ancona, Eggers, Hocks, Payot, Rock.

Noes—Supervisors Alpers, Bent, Boxton, Gallagher, Lunstedt, McClellan, Rea, Sanderson.

CHAS. W. FAY, Clerk.

Approved, San Francisco, March 23, 1905.

E. E. SCHMITZ,

Mayor and ex-officio President of the Board of Supervisors.

LIGHTING STREETS AND PUBLIC BUILDINGS.

The Board of Supervisors having prepared specifications for lighting the streets and public buildings, and bids therefor having been received from the San Francisco Gas & Electric Company, which were referred to the Committees on Finance and Artificial Lights, thereafter on June 19, 1905, the joint committee submitted the following report:

REPORT OF THE JOINT COMMITTEE ON ARTIFICIAL LIGHTS AND FINANCE ON AWARD OF CONTRACT FOR LIGHTING OF STREETS AND PUBLIC BUILDINGS FOR THE YEAR COMMENCING JULY 1, 1905.

To the Honorable Board of Supervisors of the City and County of San Francisco:

Gentlemen:—Your Joint Committee on Artificial Light and Finance, to which was referred the Proposals of the San Francisco Gas and Electric Company to light the public streets and outlying districts with gas and electricity for the year commencing July 1, 1905, and ending June 30, 1906, respectfully begs leave to submit the following report:

Mr. Allan Pollok, representing the San Francisco Gas and Electric Company, appeared before your Committee and stated that the Company was willing to accept the sum of \$320,000 for the lighting of streets and outlying districts and all public buildings, with the exception of the school buildings, which have heretofore been contracted for separately by the Board of Education.

Thomas F. Boyle, Esq., member of the Board of Education, appeared before the Committee and stated that unless the cost of lighting the school buildings was to be paid out of the appropriation for lighting streets, etc., and public buildings, that the School Department desired to make their own contract.

Mr. Pollok, stated that the Company would offer to light all the school buildings for the sum of \$4,000.00, which offer Mr. Boyle said would be satisfactory.

Your Committee recommends the passage of a Resolution, which it has prepared, awarding the contract for lighting the public streets and outlying districts and all public buildings, with the exception of the school building, and to furnish all electric power required by the City and County in public buildings, to the San Francisco Gas and Electric Company, for the term of one year commencing July 1, 1905, the prices to be paid being as follows:

PUBLIC BUILDINGS.

For gas, per 1000 cubic feet.....	\$1.00
For electricity.....	.06

STREETS AND OUTLYING DISTRICTS.

For each single burner gas lamp, per night.....	\$0.08 7-10
For each triple-top cluster gas lamp, per night.....	.15
For each electric arc lamp, per night.....	.35 5-7

This offer of the San Francisco Gas and Electric Company is made with the understanding that the Company is to furnish 100 new arc lights and 200 new gas lights, and the maximum amount to be paid by the city for all service, except school buildings, to be \$320,000.00.

W. W. SANDERSON,
Chairman Artificial Lights Committee.
H. U. BRANDENSTEIN,
Finance Committee.

The foregoing report was adopted and on June, 1905, the award of contract was made as follows:

RESOLUTION No. 6067.

Resolved that the contract to light the streets and outlying districts and all public buildings (excepting school buildings) of the City and County of San Francisco with gas and electricity, and for supplying power for all purposes, for the term of one year commencing July 1, 1905, and ending June 30, 1906, in strict accordance with the specifications and advertisement inviting proposals thereon, be and the same is hereby awarded to the San Francisco Gas and Electric Company, a corporation, at the herein-after designated prices and modifications thereof, it being the lowest responsible bidder therefor, to-wit:

STREETS.

For each single burner gas lamp, per night.....	\$0.08 7-10
For each triple-top cluster gas lamp, per night.....	.15
For each electric arc lamp per night.....	.35 5-7

PUBLIC BUILDINGS.

Building—	Gas per 1000 Cubic Feet	Electricity per 1000 Watt Hrs.
City Hall.....	\$1.00	\$0.06
Hall of Justice.....	1.00	.06
Corporation Yard No. 1.....	1.00	.06
Morgue.....	1.00	.06
Coroner's Office.....	1.00	.06
Fire Alarm and Police Telegraph.....	1.00	.06
Exempt Engine Company.....	1.00	.06
County Jail No. 1.....	1.00	.06
County Jail No. 2.....	1.00	.06
County Jail No. 3.....	1.00	.06
Engine Company No. 1.....	1.00	.06
Engine Company No. 2.....	1.00	.06
Engine Company No. 3.....	1.00	.06
Engine Company No. 4 and Truck No. 1.....	1.00	.06
Engine Company No. 5.....	1.00	.06
Engine Company No. 6.....	1.00	.06
Engine Company No. 7.....	1.00	.06
Engine Company No. 8 and Truck No. 4.....	1.00	.06
Engine Company No. 9.....	1.00	.06
Engine Company No. 10 and Monitor Battery No. 1.....	1.00	.06
Engine Company No. 11.....	1.00	.06
Engine Company No. 12.....	1.00	.06
Engine Company No. 13.....	1.00	.06
Engine Company No. 14.....	1.00	.06
Engine Company No. 15.....	1.00	.06
Engine Company No. 16.....	1.00	.06
Engine Company No. 17.....	1.00	.06
Engine Company No. 18.....	1.00	.06
Engine Company No. 19 and Hook and Ladder No. 3.....	1.00	.06

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Building—	Gas per 1000 Cubic Feet	Electricity per 1000 Watts Hrs.
Engine Company No. 20.....	1.00	.06
Engine Company No. 21 and Truck No. 6.....	1.00	.06
Engine Company No. 22.....	1.00	.06
Engine Company No. 23.....	1.00	.06
Engine Company No. 24.....	1.00	.06
Engine Company No. 25.....	1.00	.06
Engine Company No. 26.....	1.00	.06
Engine Company No. 27.....	1.00	.06
Engine Company No. 28.....	1.00	.06
Engine Company No. 29.....	1.00	.06
Engine Company No. 30.....	1.00	.06
Engine Company No. 31.....	1.00	.06
Engine Company No. 32.....	1.00	.06
Engine Company No. 33.....	1.00	.06
Engine Company No. 34.....	1.00	.06
Engine Company No. 35 and Truck No. 8.....	1.00	.06
Engine Company No. 36.....	1.00	.06
Engine Company No. 37.....	1.00	.06
Engine Company No. 38 Chemical 6 and Truck 10.....	1.00	.06
Engine Company No. 39.....	1.00	.06
Truck No. 2 and Chemical No. 5.....	1.00	.06
Truck No. 7 and Chemical No. 7.....	1.00	.06
Truck No. 9.....	1.00	.06
Chemical No. 2 and Truck No. 5.....	1.00	.06
Chemical No. 3.....	1.00	.06
Chemical No. 4.....	1.00	.06
Coaling Station No. 1.....	1.00	.06
Battalion Chief No. 1.....	1.00	.06
Water Tower No. 1 and Chemical No. 1.....	1.00	.06
Fire Department Stables No. 1.....	1.00	.06
Corporation Yard No. 2.....	1.00	.06
Carpenter Shop.....	1.00	.06
Storehouse.....	1.00	.06
Corporation Yard—Board of Works.....	1.00	.06
Southern Police Station.....	1.00	.06
North End Station.....	1.00	.06
O'Farrell Street Police Station.....	1.00	.06
Street Sweeping Office.....	1.00	.06
Street Sweeping Storeroom.....	1.00	.06
Stanyan Street Police Station.....	1.00	.06
Mission Police Station.....	1.00	.06
Branch Library No. 1.....	1.00	.06
Branch Library No. 2.....	1.00	.06
Branch Library No. 3.....	1.00	.06
Branch Library No. 4.....	1.00	.06
Branch Library No. 5.....	1.00	.06
Branch Library No. 6.....	1.00	.06
South San Francisco Station.....	1.00	.06
Potrero Station.....	1.00	.06
Ocean View Station.....	1.00	.06
Harbor Station.....	1.00	.06
Detention Station.....	1.00	.06
Boarding Stable.....	1.00	.06
City and County Hospital.....	1.00	.06
Harbor Emergency Hospital.....	1.00	.06
Park Emergency Hospital.....	1.00	.06
Potrero Hospital.....	1.00	.06
Hospital Stable.....	1.00	.06

ELECTRICITY FOR POWER PURPOSES.

Electric current for operating the elevator motors at the City Hall and power for the Department of Electricity, six (6) cents per 1000 watt hours.

Electric current for operating the elevators at the Hall of Justice, six (6) cents per 1000 watt hours.

Electric current for the Fire Department stables, six (6) cents per 1000 watt hours.

Electric current for Corporation Yard No. 1, Fire Department, 52 Sacramento street, six (6) cents per 1000 watt hours.

Electric current for Corporation Yard No. 2, 305 Francisco street, six (6) cents per 1000 Watt hours.

Provided the sureties on the bond of the said San Francisco Gas and Electric Company, a corporation, which bond is hereby fixed at forty-five thousand dollars (\$45,000) shall be satisfactory to his Honor the Mayor, who is hereby authorized to enter into said contract subject to the following conditions, to-wit:

That the said San Francisco Gas and Electric Company shall, during said term of one year, from July 1, 1905, to June 30, 1906, light the public streets and outlying districts of the City and County with twelve hundred and eleven (1211) electric arc lights, fifty-five hundred and fifty (5550) Welsbach gas lamps and twenty (20) naphtha Welsbach lights, every night during said term. The time of light and extinguishing shall be as follows:

Arc lights shall be lighted three-quarters of an hour after sunset and shall be extinguished not earlier than three-quarters of an hour before sunrise, and in the case of the gas lamps and naphtha lamps, the last lamp shall be lighted three-quarters of an hour after sunset and the first gas lamp shall not be extinguished earlier than an hour and a quarter before sunrise, provided that the last gas lamp shall not be extinguished earlier than fifteen minutes before sunrise.

The said San Francisco Gas and Electric Company shall also light the dome of the City Hall with electricity on any twelve nights to be designated by the Board of Supervisors during said term of one year.

The acceptance of the bids aforesaid is subject to the condition that said bids be and they are hereby reduced and modified so that the total sum to be paid hereunder for lighting all public buildings (excepting school buildings), streets, and supplying power for all purposes, to the San Francisco Gas and Electric Company, a corporation, for the said term of one year shall be three hundred and twenty thousand dollars (\$320,000.00), payable in twelve (12) equal monthly payments of twenty-six thousand six hundred and sixty-six dollars and sixty-six cents (\$26,666.66), less a deduction for lights not burning to be computed at the rate of eight and seven-tenths (\$0.87) cents per night for Welsbach gas lights and thirty-five and five-sevenths (\$0.35 5-7) cents per night for electric lights.

And the clerk is hereby directed to advertise this Resolution in the Evening Post Newspaper.

In Board of Supervisors, San Francisco, June 19, 1905.

Adopted by the following vote:

Ayes—Supervisors Bent, Booth, Boxtton, Brandenstein, Braunhart, Comte, Connor, D'Ancona, Eggers, Gallagher, Hocks, Lunstedt, McClellan, Payot, Rea, Rock, Sanderson.

Absent—Supervisor Alpers.

CHAS. W. FAY, Clerk.

Approved, San Francisco, July 1, 1905.

E. E. SCHMITZ,

Mayor and ex-officio President of the Board of Supervisors.

Ocean Shore Franchise

OCEAN SHORE RAILWAY COMPANY FRANCHISE.

An event of great importance in the development of the southerly and westerly portions of the City and County of San Francisco, particularly in the region lying in the basin of Islais Creek and in the territory lying north and South of Golden Gate Park and known as the "Sunset" and "Richmond" districts, had its inception in the application made by the Ocean Shore Railway Company to the Board of Supervisors, June 26, 1905, for a franchise to operate in San Francisco County, a portion of an inter-urban electric railroad system, connecting the City of San Francisco with the City of Santa Cruz by a line running along the shore of the Pacific ocean through Santa Cruz and San Mateo Counties.

PETITION OF OCEAN SHORE RAILWAY COMPANY.

The following is a copy of the petition presented to the Board of Supervisors, June 26, 1905, by Supervisor John Connor, Chairman of the Streets, Sewers and Parks Committee:

To the Honorable the Board of Supervisors
of the City and County of San Francisco,
State of California.

Gentlemen—The Ocean Shore Railway Company, a corporation organized under the laws of the State of California, requests your Honorable Board to pass an Ordinance granting to it a franchise to construct a single or double track railroad within the limits of the City and County of San Francisco, commencing at a point on Army street where the same intersects Illinois street; thence running in a general westerly and southwesterly direction to a point on the southerly boundary line of the City and County of San Francisco, about one hundred (100) feet easterly from the extreme high-tide line of the Pacific ocean, said point being about sixty (60) feet in elevation above said high-tide line; and also for a branch single or double track standard gauge railroad line, commencing in what is known as the Richmond District in the said city and county at a point where Eleventh Avenue intersects Fulton street; thence running to a point that would intersect with the line hereinabove mentioned; and we herewith submit to your Honorable Body for this purpose a proposed Ordinance.

We therefore respectfully request that this measure receive your careful attention and consideration.

Very truly yours,
OCEAN SHORE RAILWAY COMPANY,

By W. E. DEAN, President.

Attest: BURKE CORBET, Secretary.

The aforesaid petition was accompanied by a draft of franchise, which was designated Bill No. 1768, and both the Bill and the Petition were referred to the Streets, Sewers and Parks Committee for consideration.

Under date of July 6, 1905, the Committee referred the petition and draft of franchise to the Board of Public Works by the following communication:

San Francisco, July 6, 1905.

To the Honorable the Board of Public Works,
San Francisco.

Gentlemen—I have been directed by the Streets, Sewers and Parks Committee of the Board of Supervisors to transmit to you the enclosed copy of Petition of the Ocean Shore Railway Company for a franchise to construct a single or double track railroad over and along certain streets, etc., in the City and County of San Francisco, and to request that you direct the City Engineer to report on the route of the line; the intended construction; the grade changes involved, and such other questions as may arise in connection with the interests of the City and County and the inhabitants thereof, in the granting of said franchise.

Yours truly,

CHAS. W. FAY,

Clerk Board of Supervisors.

REPORT OF CITY ENGINEER ON APPLICATION OF OCEAN SHORE RAILWAY COMPANY FOR A FRANCHISE.

Thereafter on date of August 7, 1905, the Board of Public Works transmitted to and filed in the office of the Board of Supervisors the report of the City Engineer on the application of the Ocean Shore Railway Company for a franchise over certain streets in the City and County of San Francisco, as follows:

San Francisco, Cal., August 7th, 1905.

To the Honorable the Board of Public Works,
of the City and County of San Francisco,
State of California.

Gentlemen—Herewith I return Petition No. 7566 of the Ocean Shore Railway Company, regarding certain grade changes and the establishment of grades along the line of their proposed Railway, extending from Illinois Street near Army Street southerly to a point on the southern county boundary, near the Pacific ocean; and also extending from 11th Avenue and "C" street westerly and southerly to connect with above described line near the north-westerly corner of Lake Merced.

A study has been made to eliminate as many grade crossings as possible and to determine the most feasible grades for the various streets and avenues that are crossed by the proposed track location. It has therefore been suggested that the proposed track elevation be changed and the proposed alignment slightly modified, so as to minimize the amount of changes that will be necessary in the official grade of the streets.

This modification will be acceptable to the Railway Company, and on this assumption, recommendations are now made to establish and to change certain grades.

The railway from Illinois street to the county line, will cross fifty-six (56) streets, avenues and alleys. Of these the railway will run lengthwise on four (4) streets, three (3) will cross over the railway on bridges, seventeen (17) will pass under the track, within no case less than 14 feet of clear head room, thirty-two (32) will cross the railway at grade. Of these grade crossings, nine (9) are in the proposed section that the Railway Company is to use for yard purposes, and the balance in no case will probably ever be used as a thoroughfare.

The foregoing does not include any streets that are crossed by their line starting in Richmond District and running thence to intersect their main line No. 1, as this portion of their road runs along all streets at grade. To bring their roadbed within the maximum grade of 10% will require a change of grade on "C" street between 15th and 16th avenues, 20th and 21st avenues and 41st and 42d avenues.

In granting a franchise to the Railway Company, the same should be conditioned upon the construction of suitable steel or masonry bridges, for their tracks over the streets, or for the streets over the tracks, as the case may be, at the crossings where the difference between the elevation of the streets and the rails is sufficient to permit the use of bridges.

The bridges for streets whose grades have already been established, or for such as may hereafter be established at sufficient elevation above the railroad to permit bridging over the railroad, should have full railway widths, and sidewalks upon each side should be at least eight (8) feet wide.

It should be required (except in case of an oblique crossing) that no columns or piers for the support of any railway bridge over a street shall be placed on any street except along the center line thereof, and that the base width of column foundation or piers, shall not exceed five (5) feet.

In the case of oblique and consequently of more than ordinary length, columns or piers for bridge support may be permitted along the curb lines, as well as along the center line of the street. The base width of column foundation or of piers, should not exceed two (2) feet on the curb lines.

The roadway faces of columns or piers at the curb lines should be six (6) inches back of the official curb line.

Where the roadway of a street is already improved, it should be re-constructed to the new grade by the Railway Company, whenever the bridges are constructed, or before such construction, if required by the Supervisors.

There should also be a provision about the railway crossing of the proposed Boulevard, which is to be constructed east of Lake Merced.

The following description of the Railway main lines varies somewhat from that furnished originally by the Company, being modified as follows:

The railway tracks to run through private property south of Army street, instead of on Army street.

To run through private property between Marengo street and Barneveld avenue instead of on Marengo street;

And to run through private property between Huron and Wyoming avenues, crossing Wyoming avenue at Sherman avenue, instead of on Wyoming avenue for about two (2) blocks.

DESCRIPTION OF MAIN LINE OF SAID RAILROAD AND THE ROUTE THEREOF.

NO. 1.

The main line of said railway, the right to construct, maintain and operate which, and the right of way for which are hereby granted, starts at a point within the said City and County of San Francisco, State of California, at a point on Illinois street, just south of Army street, running thence across private property westerly, parallel to, and just south of Army street; to Connecticut street, crossing Kentucky, Tennessee, Minnesota, Indiana and Iowa streets, Pennsylvania avenue, Mississippi, Texas, Missouri and Connecticut streets at grade; thence across private property by curve to the left and tangent to Orleans street at its intersection with Norman street, crossing Arkansas, Wisconsin, Carolina, De Haro, Mazzini, Norman and Orleans streets at grade; thence across private property by curve to the left, crossing Luck street at grade and entering Barneveld avenue near the southerly line of Luck street; thence along Barneveld avenue and Loomis street at street grade, passing under 15th avenue south, with a clear head room of seventeen (17) feet and crossing Waterloo street at grade; thence across private property between Marengo street and Barneveld avenue, crossing over Dickenson street with a clear head room of fourteen (14) feet and over San Bruno avenue with a clear head room of sixteen (16) feet; thence across private property between Crescent avenue and Case street, crossing over Paul street with clear head room of fourteen (14) feet and Welden and Salem streets at grade; thence across private property, following the general course of the valley of Islais Creek to Alemany avenue, crossing under Mission street at its intersection with Canal street, with a clear head room of seventeen (17) feet; thence along Alemany avenue at grade, and across private property to Huron avenue at its intersection with Mohawk avenue, crossing over Ocean and Onondaga avenues, with a clear head room of sixteen (16) feet at each avenue; thence along Huron avenue at grade to a point about midway between Mt. Vernon and Ottawa avenues; thence across private property to the intersection of Sherman and Wyoming avenues, crossing Ottawa and Foote avenues at grade, crossing over Naglee avenue with a clear head room of fourteen (14) feet, over Worden avenue with a clear head room of fifteen (15) feet and crossing Farragut and Sherman avenues at grade; thence along Wyoming avenue for about two hundred (200) feet at grade; thence across private property to a point on the northeasterly line of Worcester avenue about one hundred and thirty (130) feet northwesterly from Vernon street, crossing under Sickles avenue at its intersection with De Wolf street, with a clear head room of seventeen (17) feet, under the intersection of Regent street and San Jose avenue with a clear head room of eighteen (18) feet, under Liebig street with a clear head room of at least eighteen (18) feet, under Palmetto avenue and the S. P. R. R. with a clear head room of at least eighteen (18) feet, crossing Orizaba, Bright, Head and Victoria streets at grade, crossing over Ramsell street with a clear head room of at least fourteen (14) feet, over the intersection of Stanley and Arch streets with a clear head room of at least fourteen (14) feet, over Vernon street with a clear head room of at least fourteen (14) feet, and crossing Worcester avenue at grade; thence entering the Rancho Laguna de la Merced and running in a northwesterly direction to a point on the shore line of the Pacific ocean; thence southerly along said shore line through said Rancho Laguna de la Merced to the southerly boundary line of the City and County of San Francisco, about one hundred (100) feet easterly from the extreme high-tide line of the Pacific ocean, said point being about sixty (60) feet in elevation above said high-tide line; also—

A single or double track branch line along Barneveld avenue and Vermont street from the intersection of Luck street and Barneveld avenue, and crossing Tulare street, and along Vermont street to Army street at street grade.

NO. 2.

A branch single or double track standard gauge railroad, commencing within what is known as the Richmond district, in the City and County of San Francisco, at a point where Eleventh avenue intersects Fulton street; thence northerly along Eleventh avenue to "A" street; thence westerly along "A" street to Twenty-third avenue; thence southerly along Twenty-third avenue; to "C" street; thence westerly along "C" street to Forty-eighth avenue; thence southerly on Forty-eighth avenue to and across Fulton street on an angle to the northerly line of Golden Gate Park; thence crossing the corner of said Golden Gate Park in a southwesterly direction to a point thirty (30) feet west of the center line of the railway operated by the United Railroads; thence southerly and parallel and thirty (30) feet distant from the center of the railroad operated by the United Railroads, across Golden Gate Park, crossing the main driveway to said Golden Gate Park by an undergrade crossing, and the south driveway by an overhead crossing, to "H" street; thence crossing "H" street to Forty-eighth avenue; within the Sunset district; thence southerly on Forty-eighth avenue to "R" street; thence easterly along "R" street to Forty-seventh avenue; thence southerly on Forty-seventh avenue to the southerly end of Forty-

seventh avenue; thence crossing the Rancho Laguna de la Merced in a southerly direction to where the same intersects the line hereinbefore described as No. 1, or the main line; and also:—

Commencing at the intersection of "C" street, within said Richmond district, with Eleventh avenue; thence westerly along "C" street to where the same intersects the line above mentioned on Twenty-third avenue.

No. 3.

Beginning at a point on and connecting with said road No. 1, hereinbefore described, said point being situated on line No. 1, just South of Army street and near the westerly line of Missouri street; thence in a southwesterly direction to Barneveld avenue, with a single or double track road, with divergent spur or side tracks running southwesterly and crossing Connecticut street with four tracks, crossing Arkansas, Wisconsin, Carolina and DeHaro with six tracks, Mazzini with four tracks, Bourbon street with three tracks, Rhode Island street with three tracks, Orleans street with six tracks, Tulare street with two tracks, and connecting with the main line on Barneveld avenue with six tracks; all of the tracks described in this description No. 3 are to be used for yard tracks, and interchangeably connecting the same with such suitable switches, crossings branch tracks, and connections, within the limits of said yards and properties last above mentioned, as said Ocean Shore Railway Company shall deem necessary, and the said Ocean Shore Railway Company is hereby granted the right to construct, maintain and operate such additional side tracks, spur tracks, switches, crossings and connections in its said yards as said Company may deem necessary, and it is hereby granted a right of way over, along, across and upon any and all streets, avenues, lanes, alleys, and places which may be hereafter opened through or within or into said yards of properties.

The granting of a franchise to the Ocean Shore Railway Company along the lines hereinbefore mentioned will make it necessary to change the official grades of a number of streets:

I therefore recommend that grades be changed and established at points and at heights above City Base as hereinafter described to-wit:

TO CHANGE AND ESTABLISH GRADES.

On Army street, at the westerly line of Iowa street at	8.00 feet
(The same being the present official grade.)	
On Army street, at the easterly line of Pennsylvania avenue, be lowered 3.67 feet and established at	4.33 feet
On Army street, at the Westerly line of Pennsylvania avenue, be lowered 5.33 feet and established at	2.67 feet
On Army street northerly line of, at the crossing of Mississippi street at	3.00 feet
(The same being the present official grade.)	
On Army street, southerly line of, at the easterly line of Mississippi street, be lowered 3 feet and established at	base.
On Army street, southerly line of, at the westerly line of Mississippi street, be lowered 2.60 feet and established at	0.40 feet
On Army street, at the easterly line of Texas street, be lowered 3.60 feet and established at	4.40 feet
On Army street at the westerly line of Texas street, be lowered 2.00 feet and established at	6.00 feet
On Army street, at the crossing of Missouri street at	10.00 feet
(The same being the present official grade.)	
On Army street, at the easterly line of Connecticut street, be lowered 16.00 feet and established at	10.00 feet
On Army street, at the westerly line of Connecticut street, be lowered 19.00 feet and established at	10.00 feet
On Army street, at the crossing of Arkansas street, be lowered 35.00 feet and established at	10.00 feet
On Army street, at the crossing of Wisconsin street, be lowered 30.00 feet and established at	10.00 feet
On Army street, at the easterly line of Carolina street, be lowered 17.00 feet and established at	10.00 feet
On Army street, at the westerly line of Carolina street, be lowered 14.00 feet and established at	10.00 feet
On Army street, at the crossing of DeHaro street, be lowered 12.00 feet and established at	11.00 feet
On Army street, at the crossing of Rhode Island street, be lowered 8.00 feet and established at	12.00 feet
On Army street, at the crossing of Kansas street, be lowered 5.00 feet and established at	12.00 feet
On Army street, at the crossing of Vermont street, be lowered 3.00 feet and established at	12.00 feet

On Army street at the crossing of San Bruno avenue be lowered 3.50 feet and established at.....	12.00 feet
On Army street at its intersection with Utah street at..... (The same being the present official grade)	17.00 feet
On Pennsylvania avenue on a line parallel with and 200 feet northerly from the northerly line of Army street at..... (The same being the present official grade).	17.70 feet
On Pennsylvania avenue, easterly line of at the crossing of Army street, be lowered 3.67 feet and established at.....	4.33 feet
On Pennsylvania avenue, westerly line of, at the crossing of Army street, be lowered 5.33 feet and established at.....	2.67 feet
On Pennsylvania avenue, easterly line of, at a point distant thereon, 100 feet southerly from the southerly line of Army street, be lowered 2.17 and established at.....	4.33 feet
On Pennsylvania avenue, westerly line of at a point distant thereon 100 feet southerly from the southerly line of Army street, be lowered 3.83 feet and established at.....	2.67 feet.
On Pennsylvania avenue, on a line parallel with and 400 feet southerly from the southerly line of Army street at..... (The same being the present official grade).	2.00 feet
On Mississippi street, at the northerly line of Army street at..... (The same being the present official grade).	3.00 feet
On Mississippi street, easterly line of the southerly line of Army street, be lowered 3.00 feet and established at.....	Base.
On Mississippi street, westerly line of, at the southerly line of Army street, be lowered 2.60 feet and established at.....	0.40 feet
On Mississippi street, easterly line of, at a point distant thereon 100 feet southerly from the southerly line of Army street, be lowered 2.40 feet and established at.....	Base.
On Mississippi street, westerly line of, at a point distant thereon 100 feet southerly from the southerly line of Army street be lowered 2.00 feet and established at.....	0.40 feet
On Mississippi street, at its intersection with Tulare street, at..... (The same being the present official base.)	Base.
On Texas street, at the crossing of 25th street at..... (The same being the present official grade).	130.00 feet
On Texas street, easterly line of, at the crossing of Army street, be lowered 3.60 feet and established at.....	4.40 feet
On Texas street, westerly line of at the crossing of Army street, be lowered 2.00 feet and established at.....	6.00 feet
On Texas street, easterly line of, at a point distant thereon 100 feet southerly from the southerly line of Army street be lowered 2.10 feet and established at.....	4.40 feet.
On Texas street, westerly line of, at a point distant, thereon 100 feet southerly from the southerly line of Army street be lowered 0.50 of a foot and established at.....	6.00 feet
On Texas street, on a line parallel with and 400 feet southerly from the southerly line of Army street at..... (The same being the present official grade).	2.00 feet
On Connecticut street, at the southerly line of 25th street at..... (The same being the present official grade).	80.00 feet
On Connecticut street, easterly line of, at the crossing of Army street, be lowered 16.00 feet and established at.....	10.00 feet
On Connecticut street, westerly line of at the crossing of Army street, be lowered 19.00 feet and established at.....	10.00 feet
On Connecticut street, easterly line of, at a point distant thereon 100 feet southerly from the southerly line of Army street be lowered 13.25 feet and established at.....	10.00 feet
On Connecticut street, westerly line of, at a point distant thereon 100 feet southerly from the southerly line of Army street be lowered 15.50 feet and established at.....	10.00 feet
On Connecticut street, at the northerly line of Tulare street at..... (The same being the present official grade).	Base.
On Arkansas street at the crossing of 25th street at..... (The same being the present official grade).	130.00 feet
On Arkansas street, at the crossing of Army street be lowered 35.00 feet and established at.....	10.00 feet
On Arkansas street, on a line parallel with and 200 feet southerly from the southerly line of Army street be lowered 22.50 feet and established at.....	10.00 feet
On Arkansas street, at the northerly line of Tulare street at..... (The same being the present official grade).	Base.
On Wisconsin street, at the crossing of 25th street at..... (The same being the present official grade).	150.00 feet
On Wisconsin street, at the crossing of Army street, be lowered 30.00 feet and established at.....	10.00 feet

On Wisconsin street, on a line parallel with and 400 feet southerly from the southerly line of Army street at	10.00 feet
(The same being the present official grade).	
On Carolina street, at the crossing of 25th street at	180.00 feet
(The same being the present official grade).	
On Carolina street, easterly line of, at the crossing of Army street be lowered 17.00 feet and established at	10.00 feet
On Carolina street, westerly line of, at the crossing of Army street be lowered 14.00 feet and established at	10.00 feet
On Carolina street, on a line parallel with and 500 feet southerly from the southerly line of Army street, be raised 4.40 feet and established at	10.00 feet
On Carolina street, if produced to the northerly line of Tulare street, at	Base.
(The same being the present official grade).	
On DeHaro street, at the crossing of 25th street at	167.00 feet
(The same being the present official grade).	
On DeHaro street, at the crossing of Army street be lowered 12.00 feet and established at	11.00 feet
On DeHaro street, on a line parallel with and 350 feet southerly from the southerly line of Army street be raised 1.88 feet and established at	10.00 feet
On DeHaro street, on a line parallel with and 700 feet southerly from the southerly line of Army street be raised 6.00 feet and established at	10.00 feet
On DeHaro street, if produced to the northerly line of Tulare street at	Base.
(The same being the present official grade).	
On Rhode Island street, easterly line of, at the southerly line of 25th street at 122.00 feet	
(The same being the present official grade).	
On Rhode Island street, westerly line of, at the southerly line of 25th street at 115.00 feet	
(The same being the present official grade).	
On Rhode Island street, easterly line of, at a point distant thereon 200 feet southerly from the southerly line of 25th street be lowered 1.87 feet and established at	96.58 feet
On Rhode Island street, westerly line of, at a point distant thereon 200 feet southerly from the southerly line of 25th street be raised 5.33 feet and established at	96.58 feet
On Rhode Island street, to the crossing of Army street be lowered 8.00 feet and established at	12.00 feet
On Rhode Island street, on a line parallel with and 400 feet southerly from the southerly line of Army street at	10.00 feet
(The same being the present official grade).	
On Rhode Island street, on a line parallel with and 466 feet southerly from the southerly line of Army street at	10.00 feet
(The same being the present official grade).	
On Rhode Island street, at its intersection with Bourbon street be raised 3.00 feet and established at	10.00 feet
On Kansas street, easterly line of, at a point distant thereon 400 feet southerly from the southerly line of 25th street at	41.00 feet
(The same being the present official grade).	
On Kansas street, westerly line of, at a point distant thereon 400 feet southerly from the southerly line of 25th street at	37.00 feet
(The same being the present official grade).	
On Kansas street, at the crossing of Army street be lowered 5.00 feet and established at	12.00 feet
On Kansas street, on a line parallel with and 400 feet southerly from the southerly line of Army street be raised 5.00 feet and established at	11.00 feet
On Kansas street, at its intersection with Orleans street and Bourbon street be raised nine feet and established at	10.00 feet
On Vermont street, at the crossing of 25th street at	43.00 feet
(The same being the present official grade).	
On Vermont street, at the crossing of Army street be lowered 3.00 feet and established at	12.00 feet
On Vermont street, on a line parallel with and 400 feet southerly from the southerly line of Army street be raised 5.00 feet and established at	11.00 feet
On Vermont street, on a line parallel with and 866 feet southerly from the southerly line of Army street be raised 10.00 feet and established at	10.00 feet
On San Bruno avenue, midway between 25th and Army streets at	22.00 feet
(The same being the present official grade).	
On San Bruno avenue, on a line parallel with 25th street and intersecting the westerly line of San Bruno avenue at the 1st angle northerly from Army street be lowered 3 feet and established at	13.00 feet
On San Bruno avenue, at the crossing of Army street be lowered 3.50 feet and established at	12.00 feet
On San Bruno avenue, 1100 feet southerly from Army street at	10.00 feet
(The same being the present official grade).	
On San Bruno avenue, at its intersection with 15th avenue south at	10.00 feet
(The same being the present official grade).	
On San Bruno avenue, at its intersection with Courtland avenue, be raised 7 feet and established at	10.00 feet

On San Bruno avenue, at its intersection with Dickenson street be raised 4 feet and established at	8.00 feet
On San Bruno avenue, at its intersection with Crescent avenue be raised 4 feet and established at	8.00 feet
On 15th avenue, south, at its intersection with San Bruno avenue at (The same being the present official grade).	10.00 feet
On 15th avenue south, at the crossing of Patterson street be raised 10.00 feet and established at	10.00 feet
On 15th avenue south, at the crossing of Loomis street, be raised 1 foot for Loomis street, and established at	Base
And be raised 21 feet for 15th avenue south and established at	20.00 feet
On 15th avenue south, at the crossing of Barneveld avenue at (The same being the present official grade).	1.00 feet
On Cortland avenue, northerly line of, at the easterly line of Holladay avenue at (The same being the present official grade).	19.00 feet
On Cortland avenue, southerly line of, at the easterly line of Heath street at (The same being the present official grade).	20.50 feet
On Cortland avenue, at the westerly line of Lee street, produced be raised 3 feet and established at	11.00 feet
On Cortland avenue, at the easterly line of Lee street be raised 5 feet and established at	11.00 feet
On Cortland avenue, at the westerly line of San Bruno avenue, be raised 7 feet and established at	10.00 feet
On Lee street, westerly line of, at the southerly line of Cortland avenue be raised 3 feet and established at	11.00 feet
On Lee street, easterly line of, at the southerly line of Cortland avenue be raised 5 feet and established at	11.00 feet
On Lee street, on a line parallel with and 150 feet southerly from the southerly line of Cortland avenue at (The same being the present official grade).	44.50 feet
On Union avenue, at the crossing of Peralta avenue at (The same being the present official grade).	10.00 feet
On Union avenue, at its intersection with San Bruno avenue be raised 4 feet and established at	8.00 feet
On Crescent avenue, at its intersection with San Bruno avenue be raised 4 feet and established at	8.00 feet
On Crescent avenue, at its intersection with Peralta avenue, be raised 4.50 feet and established at	9.00 feet
On Crescent avenue, at its intersection with Paul street be raised 5 feet and established at	10.00 feet
On Crescent avenue, at its intersection with Bradford street be raised 6 feet and established at	12.00 feet
On Crescent Avenue, at its intersection with Old Hickory street be raised 7 feet and established at	14.00 feet
On Crescent avenue, at its intersection with Weldon street, be raised 6.50 feet and established at	14.00 feet
On Crescent avenue, at its intersection with Bronte street be raised 6.00 feet and established at	14.00 feet
On Crescent avenue, at its intersection with Putnam street be raised 6 feet and established at	15.00 feet
On Crescent avenue, at its intersection with Nevada avenue be raised 4.50 feet and established at	15.50 feet
On Crescent avenue, at its intersection with Salem street, be raised 1 foot and established at	16.00 feet
On Crescent avenue, at the easterly line of Prentiss street at (The same being the present official grade.)	24.50 feet
On Peralta avenue at the crossing of Union avenue. (The same being the present official grade).	10.00 feet
On Peralta avenue, at its intersection with Crescent avenue be raised 4.50 feet and established at	9.00 feet
On Bradford street, at the southerly line of Union street at 26.00 feet. (The same being the present official grade).	26.00 feet
On Bradford street, at its intersection with Crescent avenue be raised 6.00 feet and established at	12.00 feet
On Bronte street, on a line parallel with and 187.5 feet southerly from the southerly line of Union avenue at (The same being the present official grade).	18.00 feet
On Bronte street, at the crossing of Old Hickory street be raised 3 feet and established at	14.00 feet
On Bronte street, at its intersection with Crescent avenue be raised 6 feet and established at	14.00 feet
On Old Hickory street, northerly line of, at the easterly line of Putnam street at (The same being the present official grade).	37.00 feet

Old Hickory street, southerly line of, at the easterly line of Putnam street at (The same being the present official grade).	32.00 feet
Old Hickory street, at the crossing of Bronte street be raised 3 feet and established at.	14.00 feet
On Old Hickory street, at its intersection with Crescent avenue be raised 7 feet and established at.	14.00 feet
On Putnam street, at the southerly line of Old Hickory street at.	32.00 feet
(The same being the present official grade).	
On Putnam street, at its intersection with Crescent avenue be raised 6 feet and established at.	15.00 feet
On Nevada avenue, easterly line of, at the southerly line of Old Hickory street at.	55.00 feet
(The same being the present official grade).	
On Nevada avenue, westerly line of, at the southerly line of Old Hickory street at.	57.00 feet
(The same being the present official grade).	
On Nevada avenue, westerly line of, at a point distant thereon 30 feet northerly from the northerly line of Crescent avenue, be raised 3 feet and established at.	16.00 feet
On Nevada Avenue, at the northerly line of Crescent avenue, be raised 4.50 feet and established at.	15.50 feet
On Mission street, on a line at a right angle to the northwesterly line of Mission street, at its intersection with the easterly line of Cuvier street, at.	113.91 feet
(The same being the present official grade.)	
On Mission street, on a line at right angles to the southeasterly line of Mission street, at its intersection with the easterly line of Graut street, be raised 9 feet and established at.	111.00 feet
On Mission street, on a line at right angles to the southeasterly line of Mission street, at its intersection with the southerly line of Canal street, be raised 9 feet and established at.	111.00 feet
On Mission street, at its intersection with Trumbull street, be raised 3 feet and established at.	113.00 feet
On Mission street, at its intersection with Ney street, at.	125.00 feet
(The same being the present official grade.)	
On Alemany avenue, on a line at right angles to the southeasterly line thereof, at its intersection with the northeasterly line of Tingley street, be raised 6.90 feet and established at.	123.90 feet
On Alemany avenue, on a line at right angles to the southeasterly line thereof, at its intersection with the southwesterly line of Tingley street, be raised 7.90 feet and established at.	124.90 feet
On Alemany avenue, on a line at right angles to the southeasterly line thereof, at its intersection with the northeasterly line of Theresa street, be raised 5 feet and established at.	129.00 feet
On Alemany avenue, on a line at right angles to the southeasterly line thereof, at its intersection with the southwesterly line of Theresa street, be raised 6 feet and established at.	130.00 feet
On Alemany avenue, on a line at right angles to the southeasterly line thereof, at its intersection with the northeasterly line of Cotter street, street, be raised 1 foot and established at.	134.00 feet
On Alemany avenue, on a line at right angles to the southeasterly line there- of at its intersection with the southwesterly line of Cotter street, be raised 2 feet and established at.	135.00 feet
On Alemany avenue, on a line at right angles to the southeasterly line thereof, at its intersection with the northeasterly line of Francis street, at.	139.00 feet
(The same being its present official grade.)	
On Alemany avenue, on a line at right angles to the southeasterly line thereof, at its intersection with the southwesterly line of Francis street, be raised 0.50 of a foot and established at.	139.50 feet
On Alemany avenue, on a line at right angles to the southeasterly line thereof, at its intersection with the northeasterly line of Croke street, be raised 0.50 of a foot and established at.	142.50 feet
On Alemany avenue, on a line at right angles to the southeasterly line thereof, at its intersection with the southwesterly line of Croke street, be raised 1 foot and established at.	143.00 feet
On Alemany avenue, on a line at right angles to the southeasterly line thereof, at its intersection with the northeasterly line of Harrington street, be raised 2 feet and established at.	145.00 feet
On Alemany avenue, on a line at right angles to the southeasterly line thereof, at its intersection with the southwesterly line of Harrington street, be raised 2.50 feet and established at.	145.50 feet
On Alemany avenue, on a line at right angles to the southeasterly line thereof, at its intersection with the northeasterly line of Norton street, be lowered 0.50 of a foot and established at.	147.50 feet

On Alemany avenue, on a line at right angles to the southeasterly line thereof, at its intersection with the southwesterly line of Norton street, at.....	148.00 feet
(The same being the present official grade.)	
On Alemany avenue, on a line at right angles to the southeasterly line thereof, at its intersection with the northeasterly line of Bauer street, be raised 1 foot and established at.....	150.00 feet
On Alemany avenue, on a line at right angles to the southeasterly line thereof, at its intersection with the southwesterly line of Bauer street, be raised 1.40 feet and established at.....	150.40 feet
On Alemany avenue, on a line at right angles to the southeasterly line thereof, at a point distant thereon 153 feet southwesterly from the southwesterly line of Bauer street, be raised 2 feet and established at.....	152.00 feet
On Tingley street, northeasterly line of, at the southeasterly line of Alemany avenue, be raised 6.90 feet and established at.....	123.90 feet
On Tingley street, southwesterly line of, at the southeasterly line of Alemany avenue, be raised 7.90 feet and established at.....	124.90 feet
On Tingley street, on a line at right angles to the southwesterly line thereof, at a point distant thereon 200 feet southeasterly from the southeasterly line of Alemany avenue, at 128.54 feet.....	128.54 feet
(The same being the present official grade.)	
On Theresa street, northeasterly line of, at the southeasterly line of Alemany avenue, be raised 5 feet and established at.....	129.00 feet
On Theresa street, southwesterly line of, at the southeasterly line of Alemany avenue, be raised 6 feet and established at.....	130.00 feet
On Theresa street, on a line at right angles to the northeasterly line thereof, at a point distant thereon 313 feet northwesterly from the northwesterly line of Mission street, at.....	148.00 feet
(The same being the present official grade.)	
On Cotter street, northeasterly line of, at the southeasterly line of Alemany avenue, be raised 1 foot and established at.....	134.00 feet
On Cotter street, southwesterly line of, at the southeasterly line of Alemany avenue, be raised 2 feet and established at.....	135.00 feet
On Cotter street, at its intersection with Mission street, at.....	164.00 feet
(The same being the present official grade.)	
On Francis street, northeasterly line of, at the southeasterly line of Alemany avenue, at.....	139.00 feet
(The same being the present official grade.)	
On Francis street, southwesterly line of, at the southeasterly line of Alemany avenue, be raised 0.50 of a foot and established at.....	139.50 feet
On Francis street, on a line parallel with and 300 feet northwesterly from the northwesterly line of Mission street, at.....	160.00 feet
(The same being the present official grade.)	
On Croke street, northeasterly line of, at the southeasterly line of Alemany avenue, be raised 0.50 of a foot and established at.....	142.50 feet
On Croke street, southwesterly line of, at the southeasterly line of Alemany avenue, be raised 1 foot and established at.....	143.00 feet
On Croke street, at its intersection with Mission street, at.....	171.00 feet
(The same being the present official grade.)	
On Harrington street, northeasterly line of, at the southeasterly line of Alemany avenue, be raised 2 feet and established at.....	145.00 feet
On Harrington street, southwesterly line of, at the southeasterly line of Alemany avenue, be raised 2.50 feet and established at.....	145.50 feet
On Harrington street, on a line parallel with and 350 feet northwesterly from the northwesterly line of Mission street, be lowered 3 feet and established at.....	150.00 feet
On Harrington street, at its intersection with Mission street, at.....	170.00 feet
(The same being the present official grade.)	
On Norton street, northeasterly line of, at the southeasterly line of Alemany avenue, be lowered 0.50 of a foot and established at.....	147.50 feet
On Norton street, southwesterly line of, at the southeasterly line of Alemany avenue, at.....	148.00 feet
(The same being the present official grade.)	
On Norton street, at its intersection with Mission street, at.....	168.00 feet
(The same being the present official grade.)	
On Bauer street, northeasterly line of, at the southeasterly line of Alemany avenue, be raised 1 foot and established at.....	150.00 feet
On Bauer street, southwesterly line of, at the southeasterly line of Alemany avenue, be raised 1.40 feet and established at.....	150.40 feet
On Bauer street, on a line parallel with and 300 feet northwesterly from the northwesterly line of Mission street, be lowered 2 feet and established at.....	154.00 feet
On Bauer street, at its intersection with Mission street, at.....	166.00 feet
(The same being the present official grade.)	

On Wyoming avenue, at the northeasterly line of Farragut avenue, be raised 3.90 feet and established at.....	247.90 feet
On Wyoming avenue, at the southwesterly line of Farragut avenue, be raised 5.10 feet and established at.....	249.10 feet
On Wyoming avenue, at the northeasterly line of Sherman avenue, be lowered 1.90 feet and established at.....	257.10 feet
On Wyoming avenue, at the southwesterly line of Sherman avenue, be lowered .70 of a foot and established at.....	258.30 feet
On Wyoming avenue, on a line parallel with and 220 feet southwesterly from the southwesterly line of Sherman avenue, be lowered 10.30 feet and established at.....	262.70 feet
On Wyoming avenue, at the crossing of Sickles avenue, at..... (The same being the present official grade.)	289.50 feet
On Farragut avenue, at the crossing of Huron avenue, at..... (The same being the present official grade.)	285.00 feet
On Farragut avenue, northeasterly line of, at a point distant thereon 60 feet southeasterly from the southeasterly line of Wyoming avenue, be lowered 1.20 feet and established at.....	247.90 feet
On Farragut avenue, southwesterly line of, at a point distant thereon 60 feet southeasterly from the southeasterly line of Wyoming avenue, at (The same being the present official grade.)	249.10 feet
On Farragut avenue, northeasterly line of, at the crossing of Wyoming avenue, be raised 3.90 feet and established at.....	247.90 feet
On Farragut avenue, southwesterly line of, at the crossing of Wyoming avenue, be raised 5.10 feet and established at.....	249.10 feet
On Farragut avenue, on a line parallel with and 264 feet northwesterly from the northwesterly line of Wyoming avenue, at..... (The same being the present official grade.)	273.00 feet
On Sherman avenue, on a line parallel with and 103.5 feet southeasterly from the southeasterly line of Wyoming avenue at..... (The same being the present official grade.)	268.00 feet
On Sherman avenue, northeasterly line of, at a point distant thereon 20 feet southeasterly from the southeasterly line of Wyoming avenue be lowered 3.40 feet and established at.....	257.10 feet
On Sherman avenue, southwesterly line of, at a point distant thereon 20 feet southeasterly from the southeasterly line of Wyoming avenue, be lowered 2.20 feet and established at.....	258.30 feet
On Sherman avenue, northeasterly line of, at the crossing of Wyoming avenue, be lowered 1.90 feet and established at.....	257.10 feet
On Sherman avenue, southwesterly line of, at the crossing of Wyoming avenue, be lowered 0.70 of a foot and established at.....	258.30 feet
On Sherman avenue, at the southeasterly line of De Wolf street, produced at..... (The same being the present official grade.)	266.00 feet
On Orizaba avenue, on a line parallel with and 575 feet southerly from the southerly line of Stanley street, the same being the northerly line of Palmetto avenue at..... (The same being the present official grade.)	256.20 feet
On Orizaba avenue, easterly line of, at a point distant thereon 525 feet southerly from the southerly line of Stanley street, to be lowered 2.20 feet and established at.....	252.80 feet
On Orizaba avenue, westerly line of, at a point distant thereon 500 feet southerly from the southerly line of Stanley street, be lowered 2.90 feet and established at.....	251.50 feet
On Orizaba avenue, easterly line of, at a point distant thereon 460 feet southerly from the southerly line of Stanley street, be lowered 0.64 of a foot, and established at.....	252.80 feet
On Orizaba avenue, westerly line of, at a point distant thereon 435 feet southerly from the southerly line of Stanley street, be lowered 1.34 feet, and established at.....	251.50 feet
On Orizaba avenue, at its intersection with Sagamore street at..... (The same being the present official grade.)	252.00 feet
On Bright street, at its intersection with Palmetto avenue at..... (The same being the present official grade.)	259.50 feet
On Bright street, easterly line of, at a point distant thereon 155 feet northerly from the northerly line of Palmetto avenue, be lowered 2.00 feet and established at.....	247.30 feet
On Bright street, westerly line of, at a point distant thereon 180 feet northerly from the northerly line of Palmetto avenue, be lowered 1.70 feet and established at.....	245.90 feet
On Bright street, easterly line of, at a point distant thereon 220 feet northerly from the northerly line of Palmetto avenue, be raised 2.30 feet and established at.....	247.30 feet

On Bright street, westerly line of, at a point distant thereon 245 feet northerly from the northerly line of Palmetto avenue, be raised 2.60 feet and established at	245.90 feet
On Bright street, on a line parallel with and 287.5 feet southerly from the southerly line of Stanley street, be raised 2.00 feet and established at	242.50 feet
On Bright street, at the crossing of Stanley street, at (The same being the present official grade.)	238.00 feet
On Head street, at its intersection with Palmetto avenue at (The same being the present official grade.)	262.00 feet
On Head street, easterly line of, at a point distant thereon 260 feet northerly from the northerly line of Palmetto avenue, be lowered 3.30 feet and established at	241.70 feet
On Head street, westerly line of, at a point distant thereon 285 feet northerly from the northerly line of Palmetto avenue be lowered 3.10 feet and established at	240.30 feet
On Head street, easterly line of, at a point distant thereon 325 feet northerly from the northerly line of Palmetto avenue be raised 0.90 of a foot and established at	241.70 feet
On Head street, westerly line of, at a point distant thereon 350 feet northerly from the northerly line of Palmetto avenue be raised 1.10 feet and established at	240.30 feet
On Head street, at the crossing of Stanley street at (The same being the present official grade.)	224.50 feet
On Victoria street, on a line parallel with and 575 feet southerly from the southerly line of Stanley street, the same being the northerly line of Palmetto avenue at (The same being the present official grade.)	263.25 feet
On Victoria street, easterly line of, at a point distant thereon 210 feet southerly from the southerly line of Stanley street be raised 1.30 feet and established at	236.10 feet
On Victoria street, westerly line of, at a point distant thereon 185 feet southerly from the southerly line of Stanley street be raised 1.80 feet and established at—	234.70 feet
On Victoria street, easterly line of, at a point distant thereon 145 feet southerly from the southerly line of Stanley street be raised 6.30 feet and established at	236.10 feet
On Victoria street, westerly line of, at a point distant thereon 120 feet southerly from the southerly line of Stanley street be raised 6.90 feet and established at	234.70 feet
On Victoria street, at the crossing of Stanley street at (The same being the present official grade.)	218.50 feet
On Ramsell street, at its intersection with Palmetto avenue at (The same being the present official grade.)	253.00 feet
On Ramsell street, on a line parallel with and 80 feet southerly from the southerly line of Stanley street be lowered 5.40 feet and established at	212.00 feet
On Ramsell street at the crossing of Stanley street at (The same being the present official grade.)	212.00 feet
On Arch street, easterly line of, at the northeasterly line of Worcester avenue at (The same being the present official grade.)	227.00 feet
On Arch street, westerly line of, at the northeasterly line of Worcester avenue at (The same being the present official grade.)	222.00 feet
On Arch street, at the crossing of Stanley street be lowered 1.50 feet and established at	206.00 feet
On Arch street, on a line parallel with and 20 feet northerly from the northerly line of Stanley street be lowered 3.55 feet and established at	206.00 feet
On Arch street, on a line parallel with and 200 feet northerly from the northerly line of Stanley street at (The same being the present official grade.)	228.00 feet
On Stanley street, at the crossing of Ramsell street at (The same being the present official grade.)	212.00 feet
On Stanley street, at the crossing of Arch street be lowered 1.50 feet and established at	206.00 feet
On Stanley street, at its intersection with Vernon street and Worcester avenue be lowered 5 feet and established at	201.00 feet
On Vernon street, at its intersection with Stanley street and Worcester avenue be lowered 5 feet and established at	201.00 feet
On Vernon street, easterly line of, at a point distant thereon 31 feet northerly from the northerly line of Stanley street be lowered 7.43 feet and established at	201.00 feet
On Vernon street, easterly line of, at a point distant thereon 480 feet southerly from the southerly line of Randolph street be lowered 14.40 feet and established at	201.00 feet

On Vernon street, westerly line of, at a point distant thereon 480 feet southerly from the southerly line of Randolph street be lowered 12.35 feet and established at.....	201.00 feet
On Vernon street, easterly line of, at a point distant thereon 285 feet southerly from the southerly line of Randolph street at.....	230.67 feet
(The same being the present official grade).	
On Vernon street, westerly line of, at a point distant thereon 285 feet southerly from the southerly line of Randolph street be raised 1.21 feet and established at.....	230.67 feet
On Vernon street at the crossing of Randolph street at.....	253.00 feet
(The same being the present official grade).	
On Worcester avenue, on a line at right angles to the northeasterly line thereof at its intersection with the westerly line of Arch street at.....	222.00 feet
(The same being the present official grade).	
On Worcester avenue, on a line at right angles to the northeasterly line thereof at its intersection with the southerly line of Stanley street be lowered 5 feet and established at.....	201.00 feet
On Worcester avenue, on a line at right angles to the northeasterly line thereof, at its intersection with the westerly line of Vernon street be lowered 5 feet and established at.....	201.00 feet
On Worcester avenue, on a line at right angles to the northeasterly line thereof, at a point distant thereon 120 feet northwesterly from the westerly line of Vernon street be raised 2.34 feet and established at....	216.20 feet
On Worcester avenue, on a line at right angles to the northeasterly line thereof, at a point distant thereon 190 feet northwesterly from the westerly line of Vernon street be lowered 2.24 feet and established at...	216.20 feet
On Worcester avenue, on a line at right angles to the northeasterly line thereof at the easterly line of Ralston street at.....	228.00 feet
(The same being the present official grade).	
On each of the above mentioned streets, be changed and established to conform to true gradients between the grade elevations above given therefor.	
On "C" street, at the crossing of 15th avenue at.....	216.00 feet
(The same being the present official grade).	
On "C" street, at the crossing of 16th avenue, be raised 5.50 feet and established at.....	190.50 feet
On "C" street, at the crossing of 17th avenue at.....	183.00 feet
(The same being the present official grade).	
On "C" street, at the crossing of 18th avenue at.....	181.00 feet
(The same being the present official grade).	
On "C" street, at the crossing of 19th avenue at.....	187.00 feet
(The same being the present official grade).	
On "C" street, at the crossing of 20th avenue be lowered 3 feet and established at.....	179.00 feet
On "C" street, at the crossing of 21st avenue at.....	155.00 feet
(The same being the present official grade).	
On "C" street, at the crossing of 40th avenue at.....	119.00 feet
(The same being the present official grade).	
On "C" street, at the easterly line of 41st avenue be lowered 3 feet and established at.....	114.00 feet
On "C" street, at the westerly line of 41st avenue be lowered 5 feet and established at.....	112.00 feet
On "C" street, at the easterly line of 42d avenue at.....	88.00 feet
(The same being the present official grade).	
On "C" street at the westerly line of 42d avenue be lowered 2 feet and established at.....	86.00 feet
On "C" street, at the crossing of 43d avenue be raised 7 feet and established at.....	65.00 feet
On "C" street, at the crossing of 44th avenue at.....	64.00 feet
(The same being the present official grade).	
On 16th avenue, on a line parallel with and 200 feet northerly from the northerly line of "C" street at.....	198.34 feet
(The same being the present official grade).	
On 16th avenue, at the crossing of "C" street, be raised 5.50 feet and established at.....	190.50 feet
On 16th avenue, on a line parallel with and 300 feet southerly from the southerly line of "C" street at.....	220.00 feet
(The same being the present official grade).	
On 20th avenue, at the crossing of "B" street at.....	150.00 feet
(The same being the present official grade).	
On 20th avenue, at the crossing of "C" street, be lowered 3 feet and established at.....	179.00 feet
On 20th avenue, at the northerly line of Fulton street at.....	232.00 feet
(The same being the present official grade).	

On 41st avenue, at the crossing of "B" street at.	154.00 feet
(The same being the present official grade).	
On 41st avenue, easterly line of, at the crossing of "C" street be lowered 3 feet and established at.	114.00 feet
On 41st avenue, westerly line of, at the crossing of "C" street, be lowered 5 feet and established at.	112.00 feet
On 41st avenue, on a line parallel with and 300 feet southerly from the southerly line of "C" street at.	95.00 feet
(The same being the present official grade).	
On 42d avenue, at the crossing of "B" street at.	143.00 feet
(The same being the present official grade.)	
On 42d avenue, easterly line of, at the crossing of "C" street at.	88.00 feet
(The same being the present official grade).	
On 42d avenue, westerly line of, at the crossing of "C" street be lowered 2 feet and established at.	86.00 feet
On 42d avenue, on a line parallel with and 200 feet southerly from the southerly line of "C" street at.	78.00 feet
(The same being the present official grade).	
On 43d avenue, on a line parallel with and 200 feet northerly from the northerly line of "C" street at.	78.67 feet
(The same being the present official grade).	
On 43d avenue, at the crossing of "C" street be raised 7 feet and established at.	65.00 feet
On 43d avenue, on a line parallel with and 300 feet southerly from the southerly line of "C" street, be raised 6 feet and established at.	63.50 feet
On 43d avenue, at the northerly line of Fulton street at.	57.00 feet
(The same being the present official grade).	
On "C" street between 15th and 21st avenues, and between 40th and 44th avenues; on 16th avenue between a line 200 feet northerly from "C" street and a line 300 feet southerly from said "C" street; on 20th avenue between "B" street and Fulton street; on 41st avenue between "B" street and a line 300 feet southerly from "C" street; on 42d avenue between "B" street and a line 200 feet southerly from "C" street; and on 43d avenue between a line 200 feet northerly from "C" street and Fulton street, be changed and established to conform to true gradients between the grade elevations above given therefor.	

Further, I recommend that grades be established at points and at heights above City Base as hereinafter described to-wit:—

(To Establish Grades)

On Missouri street, at the crossing of Army street at.	10.00 feet
(The same being the present official grade).	
On Missouri street, on a line parallel with and 100 feet southerly from the southerly line of Army street be established at.	10.00 feet
On Missouri street, at the northerly line of Tulare street at.	Base.
(The same being the present official grade).	
On Bourbon street, at its intersection with Orleans street be established at.	10.00 feet
On Bourbon street, at its intersection with Mazzini street be established at.	10.00 feet
On Norman street, at its intersection with Orleans street be established at. .	10.00 feet
On Norman street, on a line parallel with and 200 feet westerly from the westerly line of Mazzini street be established at.	10.00 feet
On Norman street at the crossing of Mazzini street be established at.	9.00 feet
On Mazzini street, at its intersection with Bourbon street be established at	10.00 feet
On Mazzini street, on a line parallel with and 60 feet northerly from the northerly line of Norman street be established at.	10.00 feet
On Mazzini street, at the crossing of Norman street to be established at.	9.00 feet
On Orleans street, at its intersection with Bourbon street, to be established at.	10.00 feet
On Orleans street, at its intersection with Norman street to be established at	10.00 feet
On Orleans street, at its intersection with Napoleon street and Luck street be established at.	8.00 feet
On Vermont street, on a line parallel with and 866 feet southerly from the southerly line of Army street to be established at.	10.00 feet
On Vermont street, at its intersection with Barneveld avenue be established at.	10.00 feet
On Luck street, at its intersection with Orleans street be established at.	8.00 feet
On Luck street, at its intersection with Barneveld avenue be established at	10.00 feet
On Barneveld avenue, at its intersection with Vermont street be established at.	10.00 feet
On Barneveld avenue, at its intersection with Luck street be established at	10.00 feet
On Barneveld avenue, on a line at right angles to the easterly line thereof at a point distant thereon 200 feet southerly from the southerly line of Luck street be established at.	8.00 feet

On Barneveld avenue, at its intersection with Loomis street be established at.....	8.00 feet
On Loomis street, at its intersection with Barneveld avenue be established at.....	8.00 feet
On Loomis street, on a line parallel with and 450 feet northeasterly from the northeasterly line of 15th avenue south be established at.....	8.00 feet
On Loomis street, on a line parallel with and 50 feet northeasterly from the northeasterly line of 15th avenue south, be established at.....	Base.
On Loomis street, on a line parallel with and 70 feet southwesterly from the southwesterly line of 15th avenue south, be established at.....	Base.
On Loomis street, on a line at right angles to the northwesterly line of Loomis street and being 470 feet southwesterly from the southwesterly line of 15th avenue south, be established at.....	8.00 feet
On Loomis street, at its intersection with Waterloo street be established at.....	8.00 feet
On Dickenson street at the southeasterly line of San Bruno avenue be established at.....	8.00 feet
On Dickenson street, at its intersection with Marengo street be established at.....	8.00 feet
On Dickenson street, on a line at right angles to the northeasterly line thereof at a point distant thereon 100 feet southeasterly from the southeasterly line of Marengo street be established at.....	8.00 feet
On San Bruno avenue, at the southeasterly line of Crescent avenue be established at.....	8.00 feet
On San Bruno avenue, at the crossing of Barneveld avenue be established at.....	8.00 feet
On Paul street, at the southeasterly line of Crescent avenue be established at.....	10.00 feet
On Paul street, at its intersection with Case street be established at.....	10.00 feet
On Weldon street, at the southerly line of Crescent avenue be established at.....	14.00 feet
On Weldon street, northeasterly line of, at a point distant thereon 30 feet southeasterly from the southeasterly line of Crescent avenue be established at.....	19.00 feet
On Weldon street, southwesterly line of, at a point distant thereon 30 feet southeasterly from the southeasterly line of Crescent avenue be established at.....	18.00 feet
On Weldon street, northeasterly line of, at a point distant thereon 70 feet southeasterly from the southeasterly line of Crescent avenue be established at.....	19.00 feet
On Weldon street, southwesterly line of, at a point distant thereon 70 feet southeasterly from the southeasterly line of Crescent avenue be established at.....	18.00 feet
On Weldon street, at the crossing of Case street be established at.....	14.00 feet
On Salem street, at the southerly line of Crescent avenue be established at.....	16.00 feet
On Salem street, at its intersection with Case street be established at.....	16.00 feet
On Ocean avenue, at its intersection with Mission street at.....	166.00 feet
(The same being the present official grade).	
On Ocean avenue on a line at right angles to the southerly line thereof at its intersection with the northwesterly line of Mission street be established at.....	166.00 feet
On Ocean avenue at its intersection with Watson Place be established at.....	140.50 feet
On Ocean avenue, on a line at right angles to the southerly line thereof and distant thereon 390 feet easterly from the southeasterly line of Cayuga avenue, be established at.....	135.00 feet
On Ocean avenue, on a line at right angles to the southerly line thereof and distant thereon 310 feet easterly from the southeasterly line of Cayuga avenue be established at.....	135.00 feet
On Mohawk avenue, northeasterly line of, at Huron avenue produced, be established at.....	177.86 feet
On Mohawk avenue, southwesterly line of, at the crossing of Huron avenue be established at.....	179.06 feet
On Huron avenue at the southwesterly line of Mohawk avenue, be established at.....	179.06 feet
On Huron avenue at the northeasterly line of Geneva avenue, be established at.....	185.86 feet
On Huron avenue, at the southwesterly line of Geneva avenue, be established at.....	187.06 feet
On Huron avenue, at the northeasterly line of Niagara avenue, be established at.....	195.00 feet
On Huron avenue at the southwesterly line of Niagara avenue, be established at.....	195.20 feet
On Huron avenue, at the northeasterly line of Mt. Vernon avenue, be established at.....	196.80 feet
On Huron avenue, at the southwesterly line of Mt. Vernon avenue, be established at.....	197.00 feet
On Huron avenue, at the northeasterly line of Ottawa avenue, be established at.....	205.00 feet

On Huron avenue, at the southwesterly line of Ottawa avenue, be established at.....	206.20 feet
On Huron avenue, at the crossing of Foote avenue, be established at.....	222.00 feet
On Huron avenue, at the crossing of Naglee avenue, be established at.....	247.00 feet
On Huron avenue, at the crossing of Worden avenue, be established at....	268.00 feet
On Huron avenue, on a line parallel with and 240 feet northeasterly from the northeasterly line of Farragut avenue, be established at.....	279.00 feet
On Huron avenue, at the crossing of Farragut avenue, at.....	285.00 feet
(The same being the present official grade.)	
On Ottawa avenue, northeasterly line of, at the northwesterly line of Huron avenue be established at.....	205.00 feet
On Ottawa avenue, southwesterly line of, at the northwesterly line of Huron avenue be established at.....	206.20 feet
On Ottawa avenue, northeasterly line of, at a point distant thereon 100 feet northwesterly from the northwesterly line of Huron avenue, be established at.....	205.00 feet
On Ottawa avenue, southwesterly line of, at a point distant thereon 100 feet northwesterly from the northwesterly line of Huron avenue, be established at.....	206.20 feet
On Foote avenue, at the crossing of Huron avenue, be established at.....	222.00 feet
On Foote avenue, northeasterly line of, at a point distant thereon 150 feet northwesterly from the northwesterly line of Huron avenue, be established at.....	214.70 feet
On Foote avenue, southwesterly line of, at a point distant thereon 150 feet northwesterly from the northwesterly line of Huron avenue, be established at.....	215.94 feet
On Foote avenue, northeasterly line of, at a point distant thereon 230 feet northwesterly from the northwesterly line of Huron avenue, be established at.....	214.70 feet
On Foote avenue, southwesterly line of, at a point distant thereon 230 feet northwesterly from the northwesterly line of Huron avenue, be established at.....	215.94 feet
On Naglee avenue, at the crossing of Huron avenue, be established at....	247.00 feet
On Naglee avenue, northeasterly line of, at a point distant thereon 170 feet southeasterly from the southeasterly line of Wyoming avenue, be established at.....	209.00 feet
On Naglee avenue, southwesterly line of, at a point distant thereon 170 feet southeasterly from the southeasterly line of Wyoming avenue, be established at.....	210.00 feet
On Naglee avenue, northeasterly line of, at a point distant thereon 100 feet southeasterly from the southeasterly line of Wyoming avenue, be established at.....	209.00 feet
On Naglee avenue, southwesterly line of, at a point distant thereon 100 feet southeasterly from the southeasterly line of Wyoming avenue, be established at.....	210.00 feet
On Worden avenue, at the crossing of Huron avenue, be established at....	268.00 feet
On Worden avenue, on a line parallel with and 237 feet northwesterly from the northwesterly line of Huron avenue, be established at.....	250.00 feet
On Worden avenue, at the crossing of Wyoming avenue, be established at..	214.00 feet
On Forty-eighth (48) avenue, at the crossing of "P" street at.....	13.50 feet
(The same being the present official grade.)	
On Forty-eighth (48) avenue, on a line parallel with and 300 feet southerly from the southerly line of "P" street, be established at.....	14.50 feet
On Forty-eighth (48) avenue, at the crossing of "Q" street be established at.....	13.00 feet
On Forty-eighth (48) avenue, on a line parallel with and 300 feet southerly from the southerly line of "Q" street, be established at.....	14.50 feet
On Forty-eighth (48) avenue, at the crossing of "R" street be established at.....	13.00 feet
On Forty-eighth (48) avenue, on a line parallel with and 300 feet southerly from the southerly line of "R" street be established at.....	14.50 feet
On Forty-eighth (48) avenue, at the crossing of "S" street, be established at.....	13.00 feet
On Forty-seventh (47) avenue, at the crossing of "P" street, at.....	15.00 feet
(The same being the present official grade.)	
On Forty-seventh (47) avenue, on a line parallel with and 200 feet northerly from the northerly line of "Q" street, be established at.....	17.00 feet
On Forty-seventh (47) avenue, at the crossing of "Q" street be established at.....	16.00 feet
On Forty-seventh (47) avenue, at the crossing of "R" street, be established at.....	18.00 feet
On Forty-seventh (47) avenue, at the crossing of "S" street, be established at.....	24.00 feet
On Forty-seventh (47) avenue, on a line parallel with and 300 feet southerly from the southerly line of "S" street, be established at.....	25.50 feet
On Forty-seventh (47) avenue, at the crossing of "T" street, be established at.....	24.00 feet
On Forty-seventh (47) avenue, at the crossing of "U" street, be established at.....	16.00 feet
On Forty-seventh (47) avenue, at the crossing of "V" street, be established at.....	14.00 feet

On Forty-seventh (47) avenue, on a line parallel with and 300 feet southerly from the southerly line of "V" street, be established at	15.50 feet
On Forty-seventh (47) avenue, at the crossing of "W" street, be established at	14.00 feet
On Forty-seventh (47) avenue, on a line parallel with and 100 feet southerly from the southerly line of "W" street, be established at	14.00 feet
On "Q" street at the easterly line of the Great Highway, be established at	12.50 feet
On "Q" street, at the crossing of Forty-eighth (48) avenue, be established at	13.00 feet
On "Q" street, at the crossing of Forty-seventh (47) avenue, be established at	16.00 feet
On "R" street, at the easterly line of the Great Highway, be established at	12.67 feet
On "R" street, at the crossing of Forty-eighth (48) avenue, be established at	13.00 feet
On "R" street, at the crossing of Forty-seventh (47) avenue, be established at	18.00 feet
On "S" street, at the easterly line of the Great Highway, be established at	12.83 feet
On "S" street, at the crossing of Forty-eighth (48) avenue, be established at	13.00 feet
On "S" street, at the crossing of Forty-seventh (47) avenue, be established at	24.00 feet

On each of the above mentioned streets and avenues be established to conform to true gradients between the grade elevations above given therefor.

Very respectfully,

THOS. P. WOODWARD, City Engineer.

The report of the City Engineer and the proposed Franchise were given due consideration by the Streets, Sewers and Parks Committee, which on September 25, 1905, presented the following report to the Board of Supervisors:

REPORT OF STREETS, SEWERS AND PARKS COMMITTEE ON OCEAN SHORE FRANCHISE.

To the Honorable the Board of Supervisors of the City and County of San Francisco.

Gentlemen—Your Committee on Streets, Sewers and Parks, to whom was referred Bill No. 1768, Ordinance No. —, entitled "Providing for a grant to the Ocean Shore Railway Company, a railroad corporation, of a right of way for, and the right to construct, maintain and operate, a railroad, together with all necessary branches, sidetracks, turnouts, switches, crossings, spur-tracks, yard-tracks, depot-tracks, and terminal tracks and facilities, along, over, under, across and upon certain streets, avenues, alleys, places and properties in the City and County of San Francisco," begs leave to return said Bill to your Honorable Board amended in various particulars, and as amended, recommend its passage for printing.

The Bill provides for granting a franchise for a double track railroad in the City and County of San Francisco, of portions of a proposed electric road of about eighty-three miles in length connecting the City of Santa Cruz with San Francisco.

Three routes are provided for in the City and County of San Francisco.

Route No. 1, the main line, runs from a point on Illinois street just south of Army street, in a general westerly and southwesterly direction to Islais Creek Basin to the county line. The grant is made for fifty years and is so conditioned that the interests of the City and County and its inhabitants are thoroughly safeguarded in every respect.

Provision is made for the construction of suitable bridges, viaducts and tunnels wherever necessary, for appropriate rails and poles, for proper grade crossings, for paving of streets over which the road traverses, for reconstruction of sewers, for the erection of gates and the stationing of flagmen, and for the payment of damages to property owners due to grade changes.

Route No. 2, traverses the Richmond District, crossing Golden Gate Park at its westerly extremity and through the Lake Merced Rancho to the County line. This grant is made for twenty-five years and although covering a branch line and an integral part of an interurban electric system, nevertheless there is inserted in the franchise a provision for the payment of a percentage of the gross receipts arising from the use and operation of this route, in the sums and percentages expressed in the Charter of the City and County of San Francisco with respect to street railroad franchises.

Route No. 3, specifies lines for yard-track and spur-track franchises for fifty years, covering territory south of Army street and westerly from Missouri street. The character of construction and general provisions applicable to Routes Nos. 1 and 2 apply to this route.

A question being raised as to whether or not a franchise over Route No. 2 should be granted under the provisions of the Charter, your Committee has requested the City Attorney to express his opinion in relation thereto.

Respectfully submitted,

JOHN CONNOR,
E. R. ROCK,
SAMUEL BRAUNHART.

PROCEEDINGS OF THE BOARD OF SUPERVISORS RELATIVE TO GRANTING OF OCEAN SHORE RAILWAY FRANCHISE. SEPTEMBER 25, 1905.

Pursuant to the recommendation of the Streets, Sewers and Parks Committee, Bill No. 1768, Ordinance No.—, entitled "Providing for a grant to the Ocean Shore Railway Company, a railroad corporation, of a right of way for, and the right to construct, maintain and operate a railroad, together with all necessary branches, sidetracks, turnouts, switches, crossings, spur tracks, yard tracks, depot tracks and terminal tracks and facilities along, over, under, across and upon certain streets, avenues, alleys, places and properties in the City and County of San Francisco," was considered.

PROTEST.

The protest of Peter Tamony, against granting the franchise until damage claims due to grade changes are paid to property owners was read and ordered referred to the Streets, Sewers and Parks Committee.

PRIVILEGE OF FLOOR.

J. J. Lermen, attorney, was granted the privilege of the floor and asked that action be deferred on the so-called "Richmond Branch" of the franchise, the parties whom he represents desiring to bid thereon.

Behrend Joost was granted the privilege of the floor and objected to the passage of the Bill, claiming that the West Shore Railway Company, whom he represented, held a franchise over partly the same route.

OPINION OF CITY ATTORNEY ON POWER OF BOARD TO GRANT THE RICHMOND BRANCH OF FRANCHISE.

Office of the City Attorney, San Francisco, Cal.

September, 25, 1905.

Gentlemen: I am informed by your reference of September 21, 1905, that "The Ocean Shore Railway Company, a corporation, engaged in the construction of a railroad between this city and Santa Cruz, California, has applied to the Board of Supervisors for a franchise permitting it to enter this city and operate a railroad for the purpose of carrying passengers and personal property, the motive power to be electricity, over a route commencing near Army and Illinois streets, and thence running in a south-westerly direction through the city to its southerly boundary line. This route the Street Committee has unanimously agreed to report back to the Board with a recommendation that it be granted.

"The said railway company has in the same application also requested a like franchise for a branch line commencing near Eleventh avenue and Fulton street in the Richmond District, running thence westerly and southerly crossing the west end of Golden Gate Park, and thence through the Sunset District and connecting with the line of road first above mentioned, and thence operating its cars through to Santa Cruz. This last line we will, for the sake of brevity, call the Richmond branch.

"The Company is willing to accept the Richmond branch franchise conditioned that it shall not do a street railroad business, and will stop only at such points as may be specified by the Board of Supervisors."

Under this state of facts you desire to know:

"Can the Board of Supervisors grant this branch franchise by limiting its use so as not to engage in the street railway business?"

"Under which of the classes of roads, as found in the provisions of the City Charter, Article II, Chapter II, Section 1, Subdivisions 28 and Section 6, 'Railroads' or 'Street Railways,' would this Richmond Branch come?"

"Can the Board of Supervisors grant the Richmond branch franchise requested without offering the same for sale to competitive bidders?"

There are two classes of railroads recognized by the Charter and general laws of this State. Distinct, independent provisions are found controlling the operation of each class within this municipality. For convenience we will term the first and most important class "commercial railroads," and the second class "street railways." Much confusion has been occasioned in the decided cases in the attempted definition of these respective classes of railroads, produced, I am satisfied, in most instances, by the varying statutory provisions in which the term railroad has been given generic use, and the consequent necessity of harmonizing the term so employed with the legislative intent to express which it was used. That there is such a distinction, admits of no doubt, however courts may differ in defining it, and such a distinction has been repeatedly recognized, and enforced in this State. But, as the Supreme Court said in *Ferguson vs. Sherman* (116 Cal. 177-8):

"We recognize that the word 'railroad' or 'railway,' as used in a law, is broad enough to include street railroads, and that many cases have arisen where the courts have held that the word does in its signification include such corporations, but, when

all has been said, each case has been determined upon its own facts, having in view the circumstances of the case, the context, the presumed intention of the lawmakers, and the general policy of the particular state in regard to the matter; and, therefore, while a large number of cases may be cited in which the courts have held that the statutes under consideration dealing with railroads embraced in their provisions street railroads, an equal number, could be instanced in which the courts have, under the facts of the case, narrowed and limited the application of the statute, and held that street railroads were not included. It would be difficult, if not impossible, to formulate any rule to govern the determination. In this State," says the Court, "the difficulty is much relieved by the distinction which our codes make between railroad corporations proper and street railroad corporations."

Accepting that distinction as defined in the general law of the State, in the light of which we are entitled to assume the terms have been used in our Charter, we find that separate provisions have been made having manifest reference to the distinct kinds of railroads and peculiar in their application to the class referred to.

In Section 6, of Chapter II, Article II, of the Charter, defining the powers of the Board of Supervisors, power is conferred upon that body "to grant authority for a term not exceeding twenty-five years to construct and operate street railways upon, or over, or under, the streets or parts of streets of the City and County of San Francisco not reserved for boulevards or carriage driveways" upon the conditions and in the manner in that section set forth and specified.

Manifestly these provisions, which include the sale, after competitive bidding, of the franchise so intended to be granted for railroad purposes, have reference, and can only have reference, to a street railroad. Many of the conditions upon which such franchises are required to be granted could not be held to have any intelligible reference to commercial railroads. (*People v. Craycroft*, 111 Cal. 544).

The distinction between the class of railroads just referred to and commercial railroads is emphasized by reference to Sub-section 28 of Section 1, of the same Article and Chapter, in which the Supervisors are empowered:

"To allow any transcontinental or other railroad having not less than fifty miles of road actually constructed and in operation to enter the City and County with its road and run its cars to the water front at the most suitable point for public convenience, etc."

This provision, it is equally apparent, has direct reference to commercial railroads and was not intended to and does not refer to street railroads. Much of the embarrassment with which the Courts have been met in determining whether the word "railroad" used without qualification, would include street railroads, cannot occur in this instance, in view of the fact that the Charter provisions leave no doubt as to the class of railroads to which they respectfully refer. Much that is said, therefore, in the decisions in an endeavor to determine whether one or the other of distinct kinds of railroads are or are not intended by the legislature to be included within the terms of particular statutes, is beside the question which we are now considering, namely, whether the Ocean Shore Railway is a commercial or a street railway. This question is not whether the character of the railway being established, the statute was intended to apply to such railroad. The question here involved is what is the character of the railroad; is it a commercial railway or a street railway?

To my mind but one conclusion can be drawn from the facts before me. The railroad, the construction and operation of which is projected by the Ocean Shore Railway Company between San Francisco and Santa Cruz, with a branch line running into the Richmond District in the City of San Francisco, is designated to be and is a commercial as distinguished from a street railway.

From the Articles of Incorporation of the company it appears that it is empowered to "engage in the business of a common carrier, carrying passengers, personal property, express matter, United States Mail, and freight for hire."

The service so to be rendered is not intended to be local in its character but contemplates the transportation of passengers and freight through several counties and between many cities and towns. Nor is the contemplated road designed to form an important or any part of a general street railway system, to which it is to be attached. Its termini are stated in its articles of incorporation. It will stop only at fixed stations, to load or unload passengers or freight. I am informed that your board has concluded to grant, if you have not already granted, the privilege to this same company of running its line to a point on the water front of the city in accordance with Subsection 28 of Section 1, of the Chapter and Article referred to, and this could only have been done after a determination on your part that the contemplated road was a commercial as distinguished from a street railroad.

The courts, as heretofore suggested, have found much difficulty in defining the distinction between commercial and street railroads. This is particularly true when called upon to consider such distinction in its relation to interurban roads. This is illustrated by the dictum of Justice Shaw in *San Francisco & San Mateo Railway vs. Scott* (142 Cal. 232), when he says:

"There has recently come into existence a certain class of railroads known as interurban roads, which are a sort of hybrid having in some respects the characteristics of the ordinary railroad, and in others those of the street railroads. Within the limits of the cities which they enter they usually pass along the streets and perform the ordinary functions of street railroads, stopping where desired to let passengers on or off, and serving the public need for local street travel. Outside the cities, on their

way from one city or town to another, they frequently travel upon a roadway obtained from private persons, not upon a public road, and stop, as in case of ordinary railroads, only at stations established by them for that purpose. They also often convey freight as well as passengers."

And the learned justice concludes that it was not necessary to the case presented to decide whether the interurban railway so described is a street railway or an ordinary railroad.

Again we find that Judge Elliott, in his able work on Roads and Streets, Section 577, defines a street railroad as "a railway laid down upon roads or streets for the purpose of conveying passengers," from which the Supreme Court of this State concludes, in *Montgomery vs. Railway Company* (104 Cal. 190):

It is said to exclude the idea of the carriage of freight, and that a railroad over which heavily laden freight trains are drawn cannot be considered a street railway.

Street cars are little more than carriages for transportation of passengers, propelled over fixed tracks to which their wheels are adapted, and as a convenient, comfortable, and economical mode of conveyance, their use has become well nigh universal in cities.

See also *Frank vs. St. Paul etc. Ry. Co.*, 61 Minn. 435.

I attach no importance to the character of the motive power employed by the company to propel its cars. Whether it be steam or electricity, to my mind, is immaterial. It is true more street railroads are operated by electricity than by steam, and, conversely, more commercial railroads are operated by steam than by electricity. But it is equally true that both classes of railroads may be, and often are, operated by either steam or electricity.

S. F. & S. M. Ry. Co. vs. Scott, 142 Cal. 227.

Diebold vs. Kentucky Traction Co., 77 S. W. 674.

This latter case, a review of which is not necessary at this time, appears to more directly approach the point under discussion, having to do, as it did, with the determination of the question whether an interurban railroad operating between Louisville, Kentucky, and Nashville, Tennessee, and empowered by its charter to carry passengers and freight, was a street railroad. After a learned and exhaustive consideration of the subject and the authorities, the Court concludes:

"The foregoing authorities conclusively demonstrate that the defendant electric corporation is not a street railway within the meaning of sections 163 and 164 of the present constitution of Kentucky, but that it is an interurban and interstate commercial railroad, with all the incidental corporate rights and powers of railroad corporations in this State, whether operated by steam, electricity or any other motive power."

But as heretofore suggested, each case calls for an individual determination, and in the instance before me, I have no hesitancy in finding that the projected railroad will be a commercial and not a street railroad.

Having become convinced that the railroad which the Ocean Shore Railway Company contemplates building is not a street railroad, but is a commercial railroad, I have no difficulty in advising that it is entitled to construct a branch line from such road into the Richmond or any other district of the city into which you may conclude to grant it the authority to build. I have already so advised the Board of Supervisors in the matter of the application of the Atchison, Topeka and Santa Fe Railroad to construct such a branch, in an opinion rendered March 21, of this year, which view is confirmed in its construction of Subsection 28 above referred to by an opinion rendered April 10, 1900, by former City Attorney Franklin K. Lane, and reported at page 228 of his opinions.

Nor do I find anything opposed to this conclusion in the provisions of Subsection 28. As appears from the opinion of March 21, 1905, I have already given a construction to this subsection as follows:

"Furthermore, while it is undoubtedly to be construed as a grant and not a limitation of power of the Board, it bears evidence of a legislative intent to prescribe a rule to govern the entry of such railroads into the City and County of San Francisco, and does not purport to effect the control of such railroads after they have so entered. * * It is my opinion that the section of the charter referred to bears no relation to such a condition."

It is to be understood at all times that the power to grant or withhold the privileges applied for and to prescribe the route along, and conditions upon which the projected road will be operated rests in the exercise of a reasonable discretion in the Board of Supervisors as the legislative authority of the municipality. Such conditions may include such regulations as will prevent the use of the privileges granted a commercial railroad in the operation of a street railroad. I infer from your communication that no question is raised on this subject by those who are applying for the privileges, and a more detailed consideration of the matter is, therefore, unnecessary. These considerations are properly addressed to the Board of Supervisors in the preparation of the grant upon the form or sufficiency of which I have not been requested to and do not express any opinion.

I conclude, that the railroad to be built by the Ocean Shore Railway Company is a commercial and not a street railroad; that the grant of the privilege to construct

and operate the so-called Richmond branch can be made upon the condition that it shall not be used as a street railway, or upon any other reasonable condition, and that such privilege cannot be made the proper subject of competitive bidding.

You are so advised.

Respectfully,

PERCY V. LONG,

City Attorney.

The Board of Supervisors.

Read and ordered filed.

MOTION.

Supervisor Gallagher moved that action on the Bill be postponed one week.

Motion lost by the following vote:

Ayes—Supervisors Boxton, Connor, Gallagher, Rea—4.

Noes—Supervisors Booth, Brandenstein, Braunhart, Comte, D'Ancona, Eggers, Lunstedt, McClellan, Payot, Rock, Sanderson—11.

PASSAGE FOR PRINTING.

Whereupon, the question being taken, Bill No. 1768, Ordinance No. —, was passed for printing by the following vote:

Ayes—Supervisors Booth, Brandenstein, Braunhart, Connor, D'Ancona, Eggers, Lunstedt, McClellan, Rock, Sanderson—10.

Noes—Supervisors Boxton, Gallagher—2.

MOTION.

Supervisor D'Ancona moved that the Streets, Sewers and Parks Committee consider the matter of changing the route of the branch line running to the Richmond District, from Forty-eighth avenue to Forty-sixth avenue, to permit of the acquisition of the Lake Merced Rancho by the City and County, and also to consider the question of dividing the franchises into two Bills, one covering Routes 1 and 3, and the other Route 2 and that the Committee set a day for hearing.

So ordered.

ANNOUNCEMENT.

Supervisor Connor, Chairman of the Streets, Sewers and Parks Committee, announced that a hearing on questions relative to the Ocean Shore Railway franchise would be had on Thursday, the 28th inst., at 3 p. m.

PROCEEDINGS OF THE BOARD OF SUPERVISORS RELATIVE TO GRANTING OF FRANCHISE—OCTOBER 2, 1905.

OCEAN SHORE RAILWAY FRANCHISE.

Bill No. 1768, Ordinance No. —, entitled "Providing for a grant to the Ocean Shore Railway Company, a railroad corporation, of a right of way for, and the right to construct, maintain and operate a railroad, together with all necessary branches, sidetracks, turnouts, switches, crossings, spur tracks, yard tracks, depot tracks and terminal tracks and facilities along, over, under, across and upon certain streets, avenues, alleys, places and properties in the City and County of San Francisco," introduced on June 26, 1905, and passed for printing September 25, 1905, came up on question of final passage.

REPORT OF STREETS, SEWERS AND PARKS COMMITTEE.

To the Honorable the Board of Supervisors

of the City and County of San Francisco.

Gentlemen—Your Committee on Streets, Sewers and Parks, to whom were referred questions of policy regarding the granting of the franchise of the Ocean Shore Railway Company, as expressed in Bill No. 1768, passed for printing by your Honorable Board September 25, 1905, begs leave to report thereon as follows:

Your Committee reports adversely to the protest of Peter Tamony against the granting of the franchise until damage claims due to grade changes are paid to property owners—the question of payment of said claims being provided for in the Bill.

Also, adversely to the verbal protest of Behrend Joost against the passage of the franchise on the ground that the West Shore Railway Company and the Bay and Coast Railway Company, whom he represents, hold franchises over partly the same route.

One of said franchises above referred to, namely the West Shore Railway Company, having lapsed through non-user, and the other, namely, the Bay and Coast Railway Company, having been annulled and repealed by your Honorable Board.

Also, adversely to the verbal protest of J. J. Lermen, attorney, against the passage of the Bill on the ground that the so-called "Richmond Route" is in reality a street railroad subject to Charter provisions in the matter of calling for competitive bids for its sale—this question being decided by the City Attorney's contrary opinion.

Also, adversely to the following amendment to the Bill proposed to your Committee by Tiley L. Ford, Chief Counsel of United Railroads of San Francisco:

Add the following to section 11:

"No passenger fares of any kind shall ever, directly or indirectly, be collected by the grantee herein, its successors or assigns, within the corporate limits of the City and County of San Francisco; provided, however, that tickets may be sold within said City and County for points without said City and County, but such tickets shall not be collected, punched, or in any manner defaced, within said City and County,"—it being the opinion of your Committee that the subject matter of the amendment referred to is fully provided for in the Bill.

Regarding the matter of changing the route of the branch line running to the Richmond District from Forty-eighth and Forty-seventh avenues to Forty-sixth avenue, to permit of the unobstructed use of the Lake Merced Rancho in the event of its acquisition by the City and County for park purposes, your Committee begs leave to report that the Ocean Shore Railway Company has agreed to surrender if requested within a period of ninety (90) days, its right to construct tracks on Forty-seventh and Forty-eighth avenues, subject to the condition that the Board of Supervisors shall specify and grant within said period a right of way on such parallel streets not further east than Forty-fifth avenue as said Board may determine within said period.

The Bill having been introduced June 26, 1905, and ninety (90) days having elapsed since that time as required by section 12 of Chapter 1 of Article 2 of the Charter of the City and County of San Francisco, your committee recommends its final passage.

JOHN CONNOR.

EDWARD R. ROCK.

Read and ordered filed.

AGREEMENT RELATING TO CONDITIONAL SURRENDER OF FRANCHISE ON FORTY-SEVENTH AND FORTY-EIGHTH AVENUES.

"The Shore Line." Ocean Shore Railway Co., Law Department. Rooms 1, 2 and 3,
331 Pine street, San Francisco, Oct. 2, 1905.

To the Honorable the Mayor and Board of Supervisors
of the City and County of San Francisco.

Gentlemen:—The Ocean Shore Railway Company, the applicant for a franchise for a railroad to be constructed on Forty-eighth avenue from "H" street to "R" street, and on "R" street from Forty-eighth avenue to Forty-seventh avenue, and on Forty-seventh avenue from "R" street to Ocean avenue, which is now pending before your Honorable Board by Amended Bill No. 1768, together with an application for a railroad franchise upon and across other streets and avenues within the City and County of San Francisco, State of California, hereby agrees with your Honors and with the city and County of San Francisco that, if said franchise as now framed by Amended Bill No. 1768 is granted to the Ocean Shore Railway Company, it will, if requested so to do by the Board of Supervisors of said City and County, at any time within ninety (90) days, or before the actual commencement of the construction of said railroad upon the above mentioned parts of Forty-eighth avenue, "R" street and Forty-seventh avenue, surrender said franchise for said parts of Forty-eighth avenue, "R" street and Forty-seventh avenue, back to the City and County of San Francisco, the said City and County of San Francisco, in lieu thereof and co-extensive with the surrender aforesaid, to grant to said Ocean Shore Railway Company a franchise for said railroad upon such parts of "H" street, Forty-seventh avenue, Forty-sixth avenue, Forty-fifth avenue or "R" street, as may be agreeable to your Honorable Board so as to permit of a continuous route for said railroad, and to take the place of the surrendered portion of said franchise and to fill up the gap in the line of said railroad caused by such surrender.

By order of the Board of Directors,

Very truly yours,

OCEAN SHORE RAILWAY COMPANY,

By W. E. DEAN, President.

Read and accepted.

BURKE CORBET, Secretary.

AGREEMENT RELATING TO FREE TRANSPORTATION OF POLICE
OFFICERS AND FIREMEN AND TO HAULING OF
STREET SWEEPINGS.

"The Shore Line". Ocean Shore Railway Co., Law Department. Rooms 1, 2 and 3,
331 Pine street, San Francisco, Oct. 2, 1905.

To the Honorable the Mayor and Board of Supervisors
of the City and County of San Francisco.

Gentlemen—The Ocean Shore Railway Company hereby agrees to permit all police officers and firemen of the City and County of San Francisco, while in uniform and engaged in the discharge of their respective duties, to ride free upon the cars and trains of said Ocean Shore Railway Company within the City and County of San Francisco, during the period for which said railway company shall be granted a franchise for its line of railroad within said City and County.

Furthermore said railway company agrees that, for and during the period for which said franchise shall be granted for its said railroad within the said City and County of San Francisco, it will at convenient points along the line of its said road receive loaded upon its cars such street sweepings as may be loaded thereupon by the City and County of San Francisco, and that it will transport such street sweepings to such a point or points along the line of its said road, within said city and County as may by said City and County be desired, the same to be unloaded by said City and County of San Francisco. Such transportation will be done at the actual cost thereof to the Ocean Shore Railway Company.

By order of the Board of Directors.

Very respectfully yours,

OCEAN SHORE RAILWAY COMPANY.

By W. E. DEAN, President.

BURKE CORBET, Secretary.

Read and accepted.

AMENDMENT.

Supervisor D'Ancona moved the following amendment:

Amend Section 1, of Bill by adding the following words and figures as the concluding paragraph of caption designated in said section as "Route Number Two."

"Said franchise over said route number two is also granted upon the condition that at the termination of the period for which the right to operate cars on and over said route number two is granted, namely, Twenty-five (25) years, all the right, title and interest of said Ocean Shore Railway Company, its successors or assigns, in and to the road-track and bed of said railway designated as route number two and all its stationary fixtures upon the public streets, shall be and become the property of the City and County of San Francisco."

STATEMENT AND AGREEMENT.

Burke Corbet, attorney representing Ocean Shore Railway Company, stated that said company would accept and accede to the provisions of the amendment offered by Supervisor D'Ancona, if the Bill was finally passed, and agreed to file a stipulation to this effect, before the franchise was approved by his Honor the Mayor.

WITHDRAWAL OF AMENDMENT.

Thereupon Supervisor D'Ancona withdrew his motion to amend the Bill.

PRIVILEGE OF THE FLOOR.

On motion of Supervisor Connor, Eugene D. Sullivan, attorney representing the West Shore Railway Company, was granted the privilege of the floor, and was heard objecting to the passage of the Bill, on the ground that the West Shore Railway Company held a franchise, granted in 1892, over practically the same route. The gentleman claimed that this franchise was still in existence and asked that the opinion of the City Attorney be obtained as to its validity.

Hon. Chas. W. Slack addressed the Board on behalf of the Western Pacific Railway Company, stating that said company was applying for a franchise over practically the same territory as specified in "Route No. 1" of the Ocean Shore Railway Company. He did not oppose the pending Bill, but gave notice of intention of Western Pacific Railway Company to press to a determination the matter of granting its application for a franchise.

FINAL PASSAGE.

Whereupon, the question being taken Bill No. 1768 was finally passed as Ordinance No. 1623, by the following vote:

Ayes—Supervisors Bent, Booth, Boxton, Brandenstein, Comte, Connor, D'Ancona, Eggers, Gallagher, Hocks, Lunstedt, McClellan, Payot, Rock, Sanderson—15.

FRANCHISE OF OCEAN SHORE RAILWAY COMPANY.

The following is a copy of the franchise granted the Ocean Shore Railway Company by the Board of Supervisors, October 2, 1905, and approved by his Honor the Mayor, October 5, 1905.

BILL No. 1768.

ORDINANCE No. 1623.

Providing for a grant to the Ocean Shore Railway Company, a railroad corporation, of a right of way for, and the right to construct, maintain and operate a railroad, together with all necessary branches, sidetracks, turnouts, switches, crossings, spur tracks, yard tracks, depot tracks, and terminal tracks and facilities along over, under, across and upon certain streets, avenues, alleys, places and properties in the City and County of San Francisco.

Be it ordained by the People of the City and County of San Francisco as follows:

Section 1. Whereas, the Ocean Shore Railway Company, a railway corporation organized, created and existing under the laws of the State of California, and having its principal place of business in the City and County of San Francisco, State of California, is engaged in the construction of a double track railroad from a point within the City and County of San Francisco to a point within the City of Santa Cruz, County of Santa Cruz, State of California, which, when completed will be about eighty-three (83) miles in length and for the purpose of constructing, maintaining and operating a portion of said railroad within the City and County of San Francisco, desires permission to enter the said City and County of San Francisco with its said railroad:

Therefore the right of way be and is hereby granted unto the said Ocean Shore Railway Company, its successors and assigns, for the terms hereinafter set forth, to use portions of the streets, avenues, alleys, places and properties hereinafter named and described for railroad purposes as hereinafter set forth, and to that end the said Ocean Shore Railway Company is hereby granted the right to construct, maintain and operate by means of electricity, or other motive power authorized by law and to be hereafter approved by the Board of Supervisors before being used, a single or double track railroad, standard gauge, namely, a gauge of four feet eight and one-half inches (4 ft. 8½ in), inside measurement, between the rails, upon, along, across, over and under the portions of the streets, avenues, alleys, places and properties upon the routes of and to be traversed by said railroad, and upon, along, over and under the right of way and properties of said Ocean Shore Railway Company from a point on Illinois street; just south of Army street, thence running in a general westerly and southwesterly direction to a point on the southerly boundary line of the City and County of San Francisco:

And also for a branch single or double track standard gauge railroad line, commencing within what is known as the Richmond District, in said City and County, at a point where Eleventh avenue intersects Fulton street; thence running to a point that would intersect with the line hereinbefore mentioned, with the right to construct, maintain and operate all necessary poles, feed, trolley, guy, stay and sustaining wires, overhead construction, connecting tracks, Y tracks, side tracks, turnouts, curves, switches, crossings, spur tracks, yard tracks, depot tracks, terminal tracks, depots, station buildings, machine shops, and facilities upon said right of way, and upon and into the terminal grounds, yards, depots and properties of said company, and to connect any or all of said tracks with the main line of the railroad of said company as hereinafter set forth.

A particular description of said routes and the manner in which said railroads shall be constructed is as follows: viz.:

ROUTE NUMBER ONE.

Description of Main Line of said Railroad and the Route Thereof, Hereinafter Designated as Number One.

The main line of said railway, the right to construct, maintain and operate which, and the right of way for which, for a period of fifty (50) years from the date of the taking effect of this Ordinance, is hereby granted, starts at a point within the City and County of San Francisco, State of California, at a point on Illinois street just south of Army street; running thence across private property westerly, parallel to and just south of Army street, to Connecticut street, crossing Kentucky, Tennessee, Minnesota, Indiana and Iowa streets, Pennsylvania avenue, Mississippi, Texas, Missouri and Connec-

ticut streets at grade; thence across private property by curve to the left and tangent to Orleans street at its intersection with Norman street, crossing Arkansas, Wisconsin, Carolina, De Haro, Mazzini, Norman and Orleans streets at grade; thence across private property by curve to the left, crossing Luck street at grade and entering Barnevelde avenue near the southerly line of Luck street; thence along Barnevelde avenue and Loomis street at street grade; passing under Fifteenth avenue south, with a clear head room of seventeen (17) feet, and crossing Waterloo street at grade; thence across private property between Morengo street and Barnevelde avenue, crossing over Dickenson street with a clear head room of fourteen (14) feet, and over San Bruno avenue with a clear head room of sixteen (16) feet; thence across private property between Crescent avenue and Case street, crossing over Paul street with a clear head room of fourteen (14) feet and Welden and Salem streets at grade; thence across private property, following the general course of the valley of the Islais Creek to Alemany avenue, crossing under Mission street at its intersection with Canal street with a clear head room of seventeen (17) feet; thence along Alemany avenue at grade, and across private property to Huron avenue, at its intersection with Mohawk avenue, crossing over Ocean and Onandaga avenues with a clear head room of sixteen (16) feet at each avenue; thence along Huron avenue at grade to a point about midway between Mt. Vernon and Ottawa avenues; thence across private property to the intersection of Sherman and Wyoming avenues, crossing Ottawa and Foote avenues at grade, crossing over Naglee avenue with a clear head room of fourteen (14) feet, over Worden avenue with a clear head room of fifteen (15) feet and crossing Farragut and Sherman avenues at grade; thence along Wyoming ave. for about two hundred (200) feet at grade; thence across private property to a point on the northeasterly line of Worcester avenue about one hundred and thirty (130) feet northwesterly from Vernon street, crossing under Sickles avenue at intersection of DeWolfe street with a clear head room of seventeen (17) feet, under the intersection of Regent street and San Jose avenue with a clear head room of eighteen (18) feet, under Liebig street with a clear head room of at least eighteen (18) feet, under Palmetto avenue and under the tracks of the Southern Pacific Company with a clear head room of at least eighteen (18) feet, crossing Orizaba, Bright, Head and Victoria streets at grade, crossing over Ramsell street with a clear head room of at least fourteen (14) feet, over the intersection of Worcester and Arch streets with a clear head room of at least fourteen (14) feet; thence running in a southwesterly direction to the southerly boundary line of the City and County of San Francisco: also

A single or double track branch line along Barnevelde avenue and Vermont street from the intersection of Luck street and Barnevelde avenue and crossing Tulare street, and along Vermont street to Army street at street grade.

ROUTE NUMBER TWO.

Description of Branch Line of said Railroad and the Route Thereof, Hereinafter Designated as Route No. 2.

A branch railroad, the right to construct, maintain and operate which, and the right of way for which, for a period of twenty-five (25) years from the date of the taking effect of this Ordinance only, is hereby granted, commences within what is known as the Richmond District, in the City and County of San Francisco, at a point where Eleventh avenue intersects Fulton street; thence northerly along Eleventh avenue to a point below "A" and "B" streets; thence across private property to "A" street between Eleventh and Twelfth avenues; thence westerly along "A" street to a point between Twenty-second and Twenty-third avenues; thence across private property to Twenty-third avenue between "A" and "B" streets; thence southerly along Twenty-third avenue to a point between "B" and "C" streets, thence across private property to "C" street between Twenty-third and Twenty-fourth avenues; thence westerly along "C" street to a point between Forty-seventh and Forty-eighth avenues; thence across private property southerly along Forty-eighth avenue to and across Fulton street on an angle to the northerly line of Golden Gate Park; thence in a southwesterly direction to a point thirty (30) feet west of the center line of the railway operated by the United Railroads; thence southerly and parallel and thirty (30) feet distant from the center of the railroad operated by the United Railroads, across Golden Gate Park, crossing the main driveway of said Golden Gate Park, by an undergrade crossing, and the south driveway by an overhead crossing to "H" street; thence crossing "H" street to Forty-eighth avenue, within the Sunset District; thence southerly on Forty-eighth avenue to a point between "O" and "R" streets, thence southeasterly over private property and crossing "R" street to Forty-seventh avenue between "R" and "S" streets; thence southerly on Forty-seventh avenue to the southerly end of Forty seventh avenue to the northerly boundary of the Rancho Laguna de la Merced; thence through the Rancho Laguna de la Merced in a southeasterly direction to a point on line number one, hereinbefore described, on private property within or near block number fifty-one (51) of the lands platted by the Land Association as per map thereof on file in the office of the Recorder in and for the said City and County, and crossing Worcester avenue at grade; and crossing over Vernon street with a clear head room of at least fourteen (14) feet, and crossing on the intersection of Stanley and Arch streets with a clear head room of at least fourteen (14) feet, crossing over Ramsell street with a clear head room of at least fourteen (14) feet, and crossing Vic-

toria and Head streets at grade; together with a connecting line crossing the western part of the Rancho Laguna de la Merced between Lake Merced and the Pacific Ocean, for the purpose of connecting lines numbers one and two at points convenient to the Ocean Shore Railway Company, and also

Commencing on the above described line on "C" street at or near Twenty-third avenue, within said Richmond District; thence easterly along "C" street to a point between Eleventh and Twelfth avenues; thence across private property to and connecting with the above described line on Eleventh avenue.

The franchise over the route hereinafter designated as route number two is hereby granted upon the condition that said Ocean Shore Railway Company will pay to the City and County of San Francisco the following percentages of the gross receipts arising from the use, operation, possession and enjoyment of the franchise over said route number two as follows, viz:

Three per centum of such gross receipts during the first five years of the period for which this franchise is hereby granted; four per centum of the gross receipts during the next succeeding ten years, and five per centum of the gross receipts during the balance of the term of this franchise. Said gross receipts shall be based upon a just and correct proportion of the receipts arising from the traffic carried over route number two, upon a mileage basis for the mileage of said route number two within the City and County of San Francisco, upon all business carried over said route number two, whether said business originates within or without the City and County of San Francisco. This provision, however, shall not be construed as requiring any payments to be made for receipts for traffic over that portion of the haul other than route number two.

YARDS—NUMBER THREE.

Description of the Yards of Said Railroad Hereinafter Designated as Number Three.

The yards of said railway, the right to construct, maintain and operate which, and the right of way for which, for a period of fifty (50) years only from the date of the taking effect of this ordinance, is hereby granted, commences at a point on and connecting with said route number one, hereinafter described, said point being situated on route number one just south of Army street and near the westerly line of Missouri street; thence in a southwesterly direction to Barneveld avenue, with a single or double track, with divergent spur or side tracks, running southwesterly and crossing Connecticut street with four tracks, crossing Arkansas, Wisconsin, Carolina and De Haro streets with six (6) tracks, Mazzini street with four (4) tracks, Bourbon street with three (3) tracks, Orleans street with six (6) tracks, Tulare street with two (2) tracks, and connecting with the main line on Barneveld avenue with six (6) tracks; all of the tracks described in this description number three are to be used for yard tracks, and interchangeably connecting the same with such suitable switches, crossings, branch tracks, and connections within the limits of said yards and properties last above mentioned as said Ocean Shore Railway Company shall deem necessary, and the said Ocean Shore Railway Company is hereby granted the right to construct, maintain and operate such additional side tracks, spur tracks, switches crossings and connections in its said yards as said company may deem necessary, and it is hereby granted a right of way over, along, across and upon any and all streets, avenues, lanes, alleys, and places which may be hereafter opened through or within or into said yards or properties.

Section 2. The tracks of said railway company shall be laid flush with the level of the street wherever the same shall have been graded, so as to offer as little obstruction as practicable to the crossing thereof by vehicles, and it is provided further that nothing in this Ordinance shall be construed so as to prevent the proper authorities of the said City and County from maintaining and exercising the same jurisdiction over the streets and portions of streets covered by this franchise which they are or shall be authorized hereafter by law to exercise over public streets of said City and County.

Section 3. The bridges and viaducts herein referred to are to be constructed and maintained by the Ocean Shore Railway Company. They shall be of masonry, brick work or concrete, or shall have a superstructure of iron or steel supported by masonry, brickwork or concrete abutments, piers or by columns of iron, steel or other suitable material. Railroad bridges are to be so constructed as to prevent oil drippings, cinders and other waste from dropping to the street underneath.

For the support of the bridges, which are oblique and consequently of more than ordinary length, columns or piers on center lines of streets and on curb lines will be allowed. For the support of all other railroad bridges over streets, no supports within street lines will be allowed, except columns or piers along curb lines of streets, and piers or columns in center of streets where specially approved by the Board of Public Works.

The base width of columns and piers for bridge support along the center lines of streets shall not exceed five feet, and the base width of columns or piers on curb lines shall not exceed two feet.

The faces of columns or piers at the curb lines are to be at least six inches back of the official curb lines.

Abutments for all bridges are to be constructed of stone, or brick masonry, or of concrete.

The least clearance or head room for the roadway of streets passing under railroad bridges is to be thirteen and five-tenths (13.5) feet, with the use of a railroad bridge measuring vertically from top of rail to bottom of ironwork not to exceed two and four-tenths (2.4) feet, and such railroad bridge is to be used in all cases where its use will give a least clearance less than thirteen and eight-tenths (13.8) feet. Where vertical distance from street grade to top of rail of railroad admits of the railroad bridge measuring vertically more than two and four-tenths (2.4) feet from top of rail to bottom of ironwork, and leaving at least thirteen and eight-tenths (13.8) feet clear between street and bottom of ironwork of the railroad bridge, greater depth of railroad bridge may be used, provided, however, that at all sub-grade crossings of railroad for which franchises may exist or be hereafter granted the depth from top of rail to the lowest part of the superstructure shall not exceed two and four-tenths (2.4) feet where an increase in said depth will reduce the clear head room to less than twenty (20) feet.

Where said railroad shall be constructed under streets bridge over said railroad such bridges shall have the same roadway width as the width of the roadway of the several streets on which said bridges are built and shall have sidewalks on each side at least eight feet in width, when so ordered by the Board of Supervisors at the time of the construction of such bridges.

Where the railroad track or tracks of said Ocean Shore Railway Company hereby authorized to be constructed is or are laid along any public street upon the surface thereof, the said company shall pave and keep in repair such street from curb to curb, in such manner and with such material as may from time to time be prescribed by the Supervisors; and where any such track crosses any public street upon the surface thereof, the said company shall pave and keep in repair the roadway of the street, including curbs, for fifty feet upon each side of the center line of such track, and in case of oblique crossings the roadway of the streets, including curbs, between lines drawn at right angles to the direction of the street at points fifty feet beyond the intersection of the curb lines by the center line of the track, in such manner and with such material as may from time to time be prescribed by the Supervisors.

The bridges for streets whose grades have already been established, or for any such as may hereafter be established, at sufficient elevation above the railroad to permit bridging over the railroad, shall have full roadway widths and sidewalks upon each side at least eight feet in width.

Where the roadway of a street is already improved, it shall be reconstructed to the new grade by the railway company, such reconstruction to be made either prior to or at the time such bridge over such street is being constructed.

If the projected boulevard east of Lake Merced be constructed, said railroad shall cross the same by a bridge or viaduct, and said railway company may depress the roadbed of said boulevard so as to admit of said railroad crossing said boulevard at the established grade of said railroad with a clear head room of fourteen (14) feet.

Section 4. The Ocean Shore Railway Company shall pay the cost involved in making all grade changes necessary for the proper construction of the railroad tracks of said railroad company, including reconstruction of street improvements at new elevation and including damages to private property resulting from grade changes, determined by the Board of Public Works as prescribed by law or upon appeal to the courts. The said company shall also pay for special structures and devices required for the sewers already constructed, and for other sewers hereafter to be constructed, and all additional cost of sewers made necessary on account of streets carried on bridges over said railroad tracks.

Section 5. The rights hereby granted are upon the express conditions prescribed in and by the Charter of the City and County of San Francisco, and especially in and by Subdivisions 27 and 28 of Section 1, Chapter II, Article II thereof. The grant hereby made for the use of said railroad, described hereinbefore as "route number one," and "yards—number three," shall continue for a period of fifty (50) years only and the grant hereby made for the use of said railroad, described hereinbefore as "route number two," shall continue for a period of twenty-five (25) years only.

Section 6. The character and general arrangement of all structures and poles herein referred to, the materials of which they are to be built, and all work of whatsoever kind upon the streets, will be subject to the supervision of the Board of Public Works when approved by the Board of Supervisors, and the nature and character of tracks to be used shall be prescribed by said Board of Public Works.

Section 7. Said Ocean Shore Railway Company must commence the construction of the line of its said railroad hereinbefore authorized and hereinbefore described within one year from the passage of this Ordinance, and fully complete the same within five years from the date of such passage; but the construction of a single track upon, over, under or across the said streets or portions of streets upon the route thereof hereinbefore described shall be deemed to be a sufficient compliance with this requirement. In case of failure or neglect on the part of said company to commence and complete said work within the time herein specified, all rights and privileges hereby granted, and this franchise, shall cease and determine as to such portion of the said line of said railroad as may then remain uncompleted.

Section 8. The poles erected or to be erected and maintained under the provisions of this Ordinance for supporting the overhead construction for said railway shall be located at equal distances apart, and the posting of bills and other advertising matter

thereon is hereby prohibited. All of said poles shall be by the said railway company set on the sidewalk and close against the inner line of the curb, and all excavations for the placing of such poles shall be promptly refilled with earth and thoroughly settled and tamped, and the surface of the ground or pavement shall be restored to the same condition as it was in before such excavations were made, and shall be so maintained by the said railway company, and all suspended wires or conductors used in connection with said overhead construction shall be stretched and maintained at a uniform height of not less than eighteen (18) feet above the grade of the street.

Section 9. On or before the 15th day of January of each year after the receipts for the traffic over route number two, as hereinbefore provided for, shall have been earned, the president and secretary of said railway company shall make and file with the Clerk of the Board of Supervisors a sworn statement of the gross receipts of such railway for the preceding year, and the percentages aforesaid upon said gross receipts shall be paid into the treasury on or before the first day of the next ensuing February after such gross receipts shall have been earned.

Section 10. During the construction period of said railroad said company may use steam as a motive power for moving its construction cars.

Section 11. The franchise given by this Ordinance shall not be construed as granting unto the Ocean Shore Railway Company a right to engage in the street railroad business. It may, however, establish and maintain stations along the line of its said road so as to properly serve the public desiring to use said railroad, provided, however, that such stops shall be made en route as may be provided by Ordinance of the Board of Supervisors hereafter.

Section 12. Whenever hereafter requested by the Board of Supervisors, the Ocean Shore Railway Company shall from time to time establish and maintain flagmen and gates at such street crossings as may be indicated by the Board of Supervisors.

Section 13. The franchise on route number two is given conditioned that the said Ocean Shore Railway Company will construct its line of road over route number one.

Section 14. If any provision or section of this Ordinance shall be held to be invalid, such invalidity shall not effect the remaining portions of this Ordinance.

Section 15. This Ordinance shall take effect and be in force from and after its passage and approval.

In Board of Supervisors, San Francisco, October 2, 1905.

After having been published five successive days, according to law, taken up and passed by the following vote:

Ayes—Supervisors Bent, Booth, Boxton, Brandenstein, Comte, Connor, D'Ancona, Eggers, Gallagher, Hocks, Lunstedt, McClellan, Payot, Rock, Sanderson.

Absent—Supervisors Alpers, Braunhart, Rea.

CHAS. W. FAY, Clerk.

Approved, San Francisco, October 5, 1905.

E. E. SCHMITZ,

Mayor and Ex-Officio President of the Board of Supervisors.

(The above Franchise of the Ocean Shore Railway Company is recorded in Liber 1 of Franchises, Page 8, in the office of the Recorder of the City and County of San Francisco.)

AGREEMENT OF OCEAN SHORE RAILWAY COMPANY WITH CITY AND COUNTY OF SAN FRANCISCO AS TO CONDITIONS SUPPLEMENTARY TO FRANCHISE.

As stipulated by the Attorney for the Ocean Shore Railway Company at the meeting of the Board of Supervisors held October 2, 1905, the following agreement was entered into by said Company with the City and County of San Francisco, which said agreement was ratified, accepted and approved by Resolution No. 6461 of the Board of Supervisors, passed October 9, 1905, and approved by his Honor, the Mayor, October 12, 1905:

This agreement, made and entered into this 4th day of October, 1905, by and between the Ocean Shore Railway Company, a corporation organized, created and existing under and by virtue of the laws of the State of California, as party of the first part, and the City and County of San Francisco, within the State of California, a municipal corporation organized, created and existing under and by virtue of the laws of the State of California, as party of the second part.

WITNESSETH:

Whereas, The party of the first part did heretofore make an application to the Board of Supervisors of the City and County of San Francisco, State of California, for a franchise over, along, upon and across certain streets, avenues and public highways within said City and County of San Francisco; and

Whereas, Said proposed franchise is embraced and fully set forth in Amended Bill No. 1768, duly passed to print by the said Board of Supervisors in open session on the 25th day of September, 1905, and

Whereas, Said bill came up before the Board of Supervisors in open session for final passage on the 2d day of October, 1905, and at said time it was required by said Board of Supervisors that in order to fully protect and subserve the interests of the people of the City and County of San Francisco, certain conditions should be imposed upon said first party before the final passage of said bill and the approval thereof by the Mayor, and

Whereas, The party of the first part did then and there agree to and with the said Mayor and Board of Supervisors of the City and County of San Francisco that if said bill was passed finally at said session so held on the 2d day of October, 1905, that it, the said party of the first part, would make and enter into a contract in writing with the said City and County of San Francisco, embodying said conditions, before said bill should finally be passed, and approved by the Mayor.

Now, therefore, the party of the first part, for the purpose of fully carrying out the terms, promises, and conditions so stated as aforesaid, has agreed and does hereby agree to and with the said party of the second part, that in the event of the granting to it, the said party of the first part, of the franchise aforesaid, and as essential conditions thereof as follows: to-wit:

First—That at the end of the term for which said franchise is so to be granted for the route that is described in said bill as being "Route Number Two," the same to be granted for a period of twenty-five (25) years, all of its road track, ties, rails, and bed of such railway, and all of its stationary fixtures upon the public streets then occupied by it, shall immediately become and be the property of the City and County of San Francisco. This covenant applies to said Route Number Two only.

Second—That it will, if requested so to do by the Board of Supervisors of the City and County of San Francisco at any time within ninety days (90) before the actual commencement of the construction of said Route Number Two, surrender said franchise, so granted, over, upon, along and across the following described portion of the route therein described as being "Route Number Two," namely: Commencing at the intersection of "H" street with Forty-eighth avenue; thence running along Forty-eighth avenue to the intersection of the center line of "R" street; thence easterly along the center line of "R" street to the center line of Forty-seventh avenue; thence southerly along the center line of Forty-seventh avenue to Ocean avenue; provided, in lieu thereof and co-extensive with the surrender aforesaid, the said party of the second part shall grant to the said party of the first part a franchise for the purpose of constructing, operating and maintaining a railroad upon, over and across such parts of "H" street, Forty-seventh avenue, Forty-sixth avenue, Forty-fifth avenue and "R" street as will permit of a continuous route for said railroad, for the purpose of taking the place of the surrendered portion of the franchise aforesaid, and thereby to fill up the gap in the line of said Route Number Two caused by such surrender, meaning hereby that the party of the second part may indicate the route to be traversed by said party of the first part, Ocean Shore Railway Company, in making the connection aforesaid so as to give the said railway company a continuous line of road over said Route Number Two.

Third—That it will permit the police officers and firemen of the City and County of San Francisco, while in uniform and engaged in the discharge of their respective duties, to ride free upon the cars and trains of the said Ocean Shore Railway Company within the said city and County of San Francisco, for and during the period for which said railway company shall be granted the franchise aforesaid for its line of railroad within said City and County.

Fourth—That, for and during the period for which said franchise shall be granted, it will, at convenient points along the line of its said railroad, receive loaded upon its cars such street sweepings as may be loaded thereupon by said party of the second part, and will transport such street sweepings to such point or points along the line of its said railroad, within said City and County of San Francisco, as may be by said party of the second part desired, the same to be unloaded by said party of the second part. Such transportation of said street sweepings shall be done at the actual cost thereof to the said party of the first part.

In witness whereof, the said party of the first part has, by resolution of its Board of Directors duly passed, duly caused this agreement to be signed by its President, attested by its Secretary, and the seal of the corporation to be affixed hereto, this 4th day of October, 1905, and the party of the second part, by resolution of its Board of Supervisors, has authorized the Mayor of said City and County of San Francisco to sign this contract for and on behalf of the City and County of San Francisco.

(Seal).

OCEAN SHORE RAILWAY COMPANY,

By J. DOWNEY HARVEY, Vice-President.

(Seal).

Attest: BURKE CORBET, Secretary.

CITY AND COUNTY OF SAN FRANCISCO.

By E. E. SCHMITZ, Mayor of said City and County of San Francisco.
CHAS. W. FAY, Clerk of Board of Supervisors.

(The foregoing Agreement is recorded in Liber 51 of Covenants, Page 298, in the office of the Recorder of the City and County of San Francisco.)

RESOLUTION OF OCEAN SHORE RAILWAY COMPANY ACCEPTING FRANCHISE GRANTED BY CITY AND COUNTY OF SAN FRANCISCO.

The following excerpts from the Minutes of the Board of Directors of the Ocean Shore Railway Company was filed in the office of the Clerk of the Board of Supervisors on October 6th, 1905, and December 8th, 1905.

EXTRACT FROM MINUTES OF REGULAR MEETING OF THE BOARD OF DIRECTORS OF THE OCEAN SHORE RAILWAY COMPANY, OCTOBER 4th, 1905.

On motion duly made and unanimously carried, the President, or in his absence the Vice-President, and Secretary, for and on behalf of this corporation, were duly authorized to make and execute a contract with the City and County of San Francisco, of which the following is a copy, viz:

(Here follows Agreement entered into between the Vice-President and the Secretary of the Ocean Shore Railway Company and the Mayor of the City and County of San Francisco and the Clerk of the Board of Supervisors, as hereinbefore noted.)

STATE OF CALIFORNIA,
CITY AND COUNTY OF SAN FRANCISCO. } ss.

I hereby certify that the annexed is a true and correct extract from the minutes of a meeting of the Board of Directors of the Ocean Shore Railway Company, regularly held at the office of said Company on the 4th day of October, 1905, at 2 o'clock p. m.
Dated October 6th, 1905.

BURKE CORBET,
Secretary of the Ocean Shore Railway Company.

MINUTES OF REGULAR ADJOURNED MEETING OF THE BOARD OF DIRECTORS OF THE OCEAN SHORE RAILWAY COMPANY.

October 10, 1905, 2:45 p. m.

Present: Directors Dean, Harvey, Carpy, Bowen, Moore and Corbet.

Absent: Director Howard.

Minutes of the meeting of October 4th, 1905, read and approved.

On motion duly made, it was resolved that the franchise granted to this corporation by the City and County of San Francisco, by Ordinance No. 1623, approved October 5th, 1905, by the Mayor of said City and County of San Francisco, together with the conditions, restrictions and provisions thereof, be accepted by this corporation, and that a duly certified copy of this resolution be filed with the Clerk of the Board of Supervisors of said City and County.

Unanimously passed.

STATE OF CALIFORNIA,
CITY AND COUNTY OF SAN FRANCISCO. } ss.

I, Burke Corbet, Secretary of the Ocean Shore Railway Company, do hereby certify that the above and foregoing is a full, true and correct copy of a resolution duly passed by the Board of Directors of the Ocean Shore Railway Company at a regular adjourned meeting thereof, held October 10, 1905, at 2:45 p. m.

BURKE CORBET,
Secretary of the Ocean Shore Railway Company.

A copy of the foregoing was duly filed in the office of the Board of Supervisors this 8th day of December, 1905.

CHAS. W. FAY,
Clerk of the Board of Supervisors.

Geary Street Railroad

In the Appendix to the Municipal Reports of 1900, 1901, pages 436 to 482, there is published the Reports of former City Engineer Grunsky and Consulting Engineer J. C. H. Stut, on the conversion of the Geary Street Railroad into an electric system under municipal ownership, said reports being filed with the Board of Supervisors preliminary to submitting the proposition of reconstruction of the road to the electors.

Several projects were outlined in the Report of the City Engineer, filed November 7, 1901, but the element of cost entering into the matter, the Board of Supervisors requested additional estimates on modified lines.

On June 11, 1902, the following report was filed by the Board of Public Works:

REPORT OF CITY ENGINEER ON RECONSTRUCTION OF GEARY STREET RAILROAD WITH EXTENSION.

San Francisco, May 8th, 1902.

To the Honorable the Board of Public Works,
of the City and County of San Francisco.

Gentlemen:—On October 25th, 1901, plans and estimates of cost of reconstructing Geary street railroad with extensions and a cross-town system were made by the City Engineer, as directed by Resolution No. 1384 of the Board of Supervisors.

After submission of these plans, the Board of Supervisors, through its Public Utilities Committee, directed the submission of supplemental estimates of cost of an extension of the road from 10th avenue to the Ocean.

This extension should be either along and just within the northerly line of Golden Gate Park or along "C" street. Upon examination and comparison of these two routes, it was found that the necessary grading along "C" street would cost only about one-third as much as that along "D" street. The use of a strip of park area for a street railway is not to be recommended when an equally serviceable location outside of the park can be found. For these reasons, a location of the extension to the Ocean, along "C" street is assumed as the basis of the cost estimate.

The grading of "C" street for road construction purposes is not to be for the full width of the street but only to the width necessary to afford the road proper support at official grade and for protection against drifting sand.

The investigation as to feasibility of this extension to the Ocean has also led to an investigation of the feasibility of constructing an extension into Sunset District. It was found upon examination to be feasible to cross Golden Gate Park practically on the line of 19th avenue. In carrying out this project, it would be necessary to cross the main park drive, the boat house road and the South drive on bridges, leaving the roads and paths of the park, except the roadway entrance at 19th street, unobstructed by the street car tracks. The track location would be just west of Stow Lake. This branch of the system should for a time at least terminate at Ocean avenue.

The studies for these extensions had already been made, when the whole matter of the conversion of the Geary street road into an underground electric system was again taken up by the Public Utilities Committee of the present Board of Supervisors, and the conclusion was reached by that Committee that the road construction should be confined to a line from the ferries at the foot of Market street to the Park.

The Committee recommendation has been favorably acted upon by the Board of Supervisors and has resulted in the adoption of Resolution No. 2591, which requests the Board of Public Works, through the City Engineer, to prepare "plans and estimates of the cost of the original construction or reconstruction and completion of the Geary Street Railroad as a municipal electric road with underground power, flat rails and the most improved electrical apparatus and equipment known to science."

The route of the proposed road to be either of the following, to-wit:

Commencing at Fulton street on Tenth avenue, thence along Tenth avenue to Point Lobos avenue, thence along Point Lobos avenue to Geary street, thence along Geary street to Market street and thence along Market street to the Ferry depot; or commencing at Fulton street on 10th avenue, thence along 10th avenue to Point Lobos avenue, thence along Point Lobos avenue to Geary street, thence along Geary street to Grant avenue, thence along Grant avenue to Bush street, thence along Bush street to Kearny street thence along Kearny street to Pine street, thence along Pine street to Market street and thence along Market street to the Ferry depot.

Complying with the request of the Public Utilities Committee and the requirements of this resolution, the necessary studies have been made and the plans and cost estimates can now be submitted.

If the municipal street railway system be restricted to a line from Ferries to Park, the location of a power house at the northern water front of the city would not be

justified. The economic location will then be about midway between the road terminals, or about in the position of the present Geary street power-house. This location has, therefore, been assumed as a basis for the cost estimate under this resolution (Project I). The building there to be erected will serve not only as a power-house but also as a car-house.

Power will be furnished by two vertical, compound, condensing engines, each of 625 horse-power at the most economical cut-off (capable of a maximum output of 930 h. p.) All necessary condensers, pumps, electrical machinery, car-elevators, shop equipment, and the like are covered by the cost estimate.

Resolution No. 2591 directs that an alternative location of that part of the line nearest to the Ferries be reported upon, as there may be some doubt whether the city will have the right to build and operate a road on Market street for a distance of seven or eight blocks from Geary street to the Ferries, in possible violation of the statutory requirements which provide: "*****," but in no case must two lines of street railway, operated under different managements, occupy and use the same street or tracks for a distance of more than five blocks consecutively. (As amended Feb. 25, 1891).

As a result of the additional studies which have been made, my report of Oct. 25th 1901, is to be supplemented by the addition of the following projects:—

Project G:—Main line; 4.90 miles long (electric conduit system)—On Market street from Ferry building to Geary street; on Geary street and Point Lobos avenue to 10th avenue; on 10th avenue to Fulton street.

Extension to Ocean, 2.35 miles long (Overhead Trolley):—On C street from 10th avenue to Great Highway.

Extension on 19th avenue, 3.00 miles long (Overhead Trolley):—On 19th avenue from C street, across Golden Gate Park to Ocean avenue.

Cross-town line, 5.80 miles long (Overhead Trolley):—On Chestnut street from the Presidio to Pierce street; on Pierce street to Vallejo street; on Vallejo street to Franklin street; on Franklin street to Oak street; on Oak street to Market street and across Market street to 11th street; on 11th street to Division street; on Division street to Hampshire street; on Hampshire street to 15th street; on 15th street to 8th street; on 8th street to 16th street; on 16th street to 7th street; on 7th street to Pennsylvania street; on Pennsylvania street to Mariposa street; on Mariposa street to Tennessee street; on Tennessee street to 22nd street; on 22nd street to a termination at Illinois street. (This differs slightly from the cross-town routes suggested in the earlier report because there is a doubt whether the road can be located along Tennessee street from 16th to Mariposa, this portion of the street having been closed in 1892 by Order No. 2599 of the Board of Supervisors.)

This project differs from the projects referred to in the report of Oct. 25th, 1901, mainly in the route prescribed for the main line. All of that portion originally projected (at the request of the Public Utilities Committee of the last Board of Supervisors) along the Park easterly from 10th avenue, along Stanyan and Fell streets to Market street and along Market street to Geary street, has been omitted.

The second street branch has also been omitted. It is to be assumed that transfer arrangements of mutual benefit can be made with corporations operating other street railway systems. The City system should be established as supplemental to the roads operated under franchises and should not be laid out with a view to reducing their earnings, as would be the case if competing lines not required for public convenience were constructed. With such a transfer privilege to some line reaching the Third and Townsend street railway station in view, the originally suggested Second street line is to be considered unnecessary at this time.

The cost estimate for Project G, is as follows:

Geary street conversion	54,650
Conduit system, ducts and lead covered cables	524,770
Power house, machinery, removal of obstructions, etc.	385,000
Cars, 40-double truck, 30-single truck	250,000
Cross-town trolley line	341,830
Extension on C street from 10th to Great Highway, trolley line ..	143,980
Extension on 19th Avenue from C street to Ocean Road trolley line ..	229,880
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	\$1,970,110
Add for engineering, contingencies, etc., about 10%	199,890
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	\$2,170,000
Purchase of land and damages due to grade changes	80,000
Total	\$2,250,000

This represents the amount that should be raised by a sale of bonds.

The actual cost would be increased over the above amount by the loss of interest during construction, probably the interest for one year or say $3\frac{1}{2}$ per cent on a bond issue of \$2,250,000, or \$78,750.

Project H:—This is the same as Project G, without any extensions along C street to the ocean, nor along 19th avenue into Sunset District. The cost estimate, including an allowance of about 10 per cent for engineering and incidentals, for this project is..... \$1,836,000

Project I:—(As directed by Res. No. 2591.) Under this project, a main line (conduit electric system) from the Ferries to Golden Gate Park without any cross-town line and without any extension to the ocean or into Sunset District, is proposed. The route will be as set forth in Resolution No. 2591, as already quoted.

The location direct to the Ferry building along Market street would give the road a length of 4.9 miles. The alternative location along Grant Avenue, Bush, Kearney and Pine streets will be about 950 feet longer. There will, however, be about 1200 feet less of track now used by the Sutter street car line, to be reconstructed for joint use, than on the direct route. The cost estimate is made to cover either location.

The estimated cost of Project I is as follows:

Geary street conversion, using present roadbed, yokes, rails, etc.	\$54,650
New road, all complete, with Falk welded joints, switches, crossings, cross-overs, pile support in lower end of Market street, etc.	231,550
Removal of gas and water pipes, conduits, etc.	25,000
Power house, 3-story; brick chimney, car-elevator, cooling tanks for con- densing water, oil tank, etc.	94,000
Engines, condensers, pumps, economizers, electric machinery and machine tools, complete.	93,500
28 double truck cars, 38 feet long with 4 25-horsepower motors each.	140,000
Lead covered, insulated conductor cables, and ducts for cables.	99,700
Purchase of real estate.	35,000
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	\$773,400
Add for engineering and contingencies 10% say.	76,600
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Total.	\$850,000

This again represents the amount which should become available as a result of the sale of bonds.

Since preparing the above, an additional Resolution (No. 2610) has been passed by the Board of Supervisors calling for plans and estimates of cost for two additional projects. The plans of construction, for a conduit electric road, remain the same as hereinabove referred to, the modification of the projects along routes described in Resolution No. 2591 consisting in an omission of so much of the road as was there- under projected for Market street.

The required cost estimates are as follows:

Project J (as directed by Resolution No. 2610, terminating on Geary street at Market street):—Commencing at Fulton street on Tenth avenue, thence along Tenth avenue to Point Lobos avenue, thence along Point Lobos avenue to Geary street, thence along Geary street to Market street, 4.3 miles of double track (conduit electric system).

Geary street conversion, using present roadbed, rails, yokes, etc.	\$54,650
New road, all complete with Falk welded joints, switches, crossings, cross-overs, etc.	115,150
Removal of gas and water pipes, conduits, etc.	25,000
Power house, 3-story, brick chimney, car-elevator, cooling tanks for con- densing water, oil tank, etc.	94,000
Engines, condensers, pumps, economizers, electric machinery and machine tools, complete.	93,500
25 double truck cars, 38 feet long with 4 25-horsepower motors each.	125,000
Lead covered insulated conductor cable, and ducts for cables.	90,000
Purchase of real estate.	35,000
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	\$632,300
Add for engineering and contingencies 10% say.	67,700
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Total.	\$700,000

Project K (alternative project as directed by Resolution No. 2610, terminating on Pine street at Market street):—Commencing at Fulton street on Tenth avenue, thence along Tenth avenue to Point Lobos avenue, thence along Point Lobos avenue to Geary street, thence along Geary street to Grant avenue, thence along Grant avenue to Bush street, thence along Bush street to Kearney street, thence along Kearney street to Pine street, thence along Pine street to Market street, 4.8 miles of double track conduit electric system.

Geary street conversion, using present roadbed, yokes, rails, etc.	\$54,650
New road, all complete with Falk welded joints, switches, crossings, cross-overs, etc.	182,200
Removal of gas and water pipes, conduits, etc.	25,000
Power house, 3-story, brick chimney, car-elevator, cooling tanks for con- densing water, oil tank, etc.	94,000
Engines, condensers, pumps, economizers, electric machinery and machine tools, complete.	93,500
28 double truck cars, 38-feet long with 4 25-horsepower motors each.	140,000
Lead covered insulated conductor cables and ducts for cables.	95,000
Purchase of real estate.	35,000

Add for engineering and contingencies 10% say	\$719,350 70,650
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Total	\$780,000
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The alternative locations of the main line are to be considered a feature of all of the projects enumerated herein and in the report of Oct. 25th, 1901, which together with all the plans and drawings then submitted, is to be considered a part of this report.

An additional map, sheet No. 14, is herewith submitted showing the proposed location of tracts and power-house under the requirements of Resolution No. 2591. The same sheet serves as well to indicate the proposed location of tracks under Resolution No. 2610, the departure from the indicated locations being merely the omission of the tracks on Market street.

The cost of operation under Project I has been approximated as follows:

Operating expenses, per annum	\$144,290
Maintenance and deterioration acct., per annum.....	33,000
Interest 3½ per cent of \$850,000, per annum.....	29,750

Total	\$207,040
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This is on the basis of an eight hour day and compensation at least \$2.50 per day, or 31½ cents per hour for conductors and motormen. (See Ordinance No. 425 of the Board of Supervisors, approved Jan. 3d, 1902, which fixes hours of labor and minimum compensation of laborers.)

With twenty cars in service, of which two are supposed to be idle, one at each end of the line, the cost per car mile would approximate 16 cents.

To keep routes available for a future extension of the City Railway system, in case that either of the Projects I, J, or K, be carried out, it would be advisable to reserve for such use by the City the following streets:

Chestnut, from Lyon to Pierce; Pierce, from Chestnut to Vallejo; Vallejo, from Pierce to Franklin; Franklin, from Vallejo to Oak; Oak, from Franklin to Market; Eleventh, from Market to Division; Division, from Eleventh to Hampshire; Hampshire, from Division to Fifteenth.; Fifteenth, from Hampshire to Eighth; Eighth, from Fifteenth to Sixteenth; Sixteenth, from Eighth to Pennsylvania; Pennsylvania, from Sixteenth to Mariposa; Mariposa, from Pennsylvania to Tennessee; Tennessee, from Mariposa to Twenty-second; Twenty-second, from Tennessee to Illinois; C, from Tenth avenue to the Great Highway; Nineteenth avenue, from C to Ocean avenue.

Very respectfully,

C. E. GRUNSKY,
City Engineer.

Project "J" outlined in the above report was selected by the Supervisors and the proposition of incurring a bonded indebtedness of \$700,000 for the construction of a street railroad over the route therein specified, was submitted to the electors at a special election held on December 2, 1902.

The proposition was defeated by a vote of 15,071 for to 11,331 against, a two-thirds vote being necessary to carry.

Thereafter, by Resolution No. 3236, approved December 26, 1902, the Board of Supervisors requested the Board of Public Works to report such plans as may be feasible and to the interest of the City and County regarding the use of Geary street and the roadbed of the Geary street railroad after November 6, 1903, the date of expiration of the existing franchise.

In response thereto the following Report of the City Engineer was filed by the Board of Public Works with the Supervisors:

REPORT OF CITY ENGINEER AS TO DISPOSITION OF GEARY STREET RAILROAD ON EXPIRATION OF FRANCHISE.

To the Honorable The Board of Public Works,
of the City and County of San Francisco.

Gentlemen—The franchise of the Geary street Park and Ocean Railroad Company will expire on November 6th, 1903.

It is not probable, without a specific order from the Board of Supervisors, that the roadbed of this company's system will be removed from the street. It may safely be assumed, as has been pointed out by the City and County Attorney in an opinion dated April 22nd, 1902, that the roadbed and subway are at the disposition of the municipality. Should the portions of the road which are readily removable, such as the rails and the slot irons, be removed from the street, then the railroad company will be put to a considerable expense to restore the street pavement. Such restoration may in fact involve the complete demolition and removal of the concrete and iron of the roadbed. It is not probable that such removal will take place to any further extent than desired by the municipality.

The City may, therefore, upon the expiration of the franchise be considered to be in possession and in control of a roadbed in fair condition extending from Market street along Geary street, and Point Lobos avenue to Fifth avenue, and along Fifth avenue to Fulton street and the Park.

On this roadbed, a cable car system could be operated substantially as at present, or the road could be converted into a conduit (underground) electric road, or the roadbed could be entirely removed and the street set apart as a boulevard.

The operation of a street railroad on this line could be either by the municipality or by a private individual or corporation. In the latter case, the operation would be either by lease or under a franchise.

The following propositions are therefore to be considered:

1. The City to take possession of the roadbed, lease or purchase the power house, car house and cars from the present owners, and continue the operation of the road as a cable railroad.
2. The City to take possession of the track system, and lease the same to the highest bidder, as authorized under Section 7, Chapter 2, Article II of the Charter.
3. The City to sell a new franchise for a term of 25 years.
4. The railroad company to be required to remove roadbed and repave the streets, and Geary street then to be declared a boulevard.

The operation of the road by the City as a cable road would make it necessary for the City to acquire by purchase, lease or original construction, a power and car house and the necessary cars. It is to be assumed that these can be obtained at a fair price from the present owners of the Geary Street system. The properties now in use are equipped with the necessary machinery and appliances and, if acquired, would enable the City to continue the street car service as now maintained by the private corporation.

Some modifications would no doubt be desirable. A special effort should be made to operate without the use of turntable at the Market street end of the line. As the old style of cars go out of service from time to time, modern cars should be added to the equipment. A change of route, to and along Tenth avenue, would be desirable, but may not be expedient in the immediate future by reason of the large cost involved and the probability that the whole system will before long go out of use as a cable car system. This same consideration also stands against the equipment of the road with new cars throughout. Desirable as this would be if the operation of the road were to be continued for ten years or more as a cable road, it would hardly be justified in this case, there being a considerable prospect that within a few years the cable will be abandoned in favor of electricity.

Should it be necessary for the City to acquire by original construction a power and car house and to acquire new cars, then about \$250,000.00 should be at the disposal of the Board of Public Works for this purpose and other improvements.

It being required by the Charter that all receipts of the several municipal departments be paid into the Treasury of the City and County, the revenues of the road under municipal management will not be available to meet operating and repair expenses, and there will have to be set aside in the budget to meet these expenses about \$13,000.00 per month.

Based on the experience of the road in the past, it may be assumed that the annual receipts at a five-cent fare will be about \$180,000.00 gradually increasing within ten years to about \$200,000.00.

Damages for which the City may become liable by reason of injury to persons through carelessness of employes are not included in the above preliminary estimate of operating expenses.

Should it be preferred to take possession of the track system and lease the same, it is probable that either the present owners or the United Railways will be bidders for the lease. The lease may be coupled with such conditions favorable to the City as will be found acceptable to those most likely to bid for the same.

In order, however, to be in a position to impose conditions favorable to the public, such as the conversion of the cable road into an electric road with a subsurface electrical conductor, the time limit for any lease would have to be for a long term. A lease would then be almost equivalent to the granting of a new franchise, and might have to be coupled with a new franchise covering the preferred location on Point Lobos and Tenth avenues. It would seem inadvisable to favor leasing the roadbed for a long term unless an offer were assured that would beyond question have greater advantages than would result from the operation of the road under a new franchise. Under a short term lease, no better service is to be expected than is at present rendered.

The municipality may, as authorized by Section 6, Chapter 11, Article 11 of the Charter, sell a new franchise. This franchise, if offered for sale, should run for twenty-five years and should be conditioned upon the conversion of the railroad into a conduit electric road, substantially as recently projected by the city. The route to be from the west side of Kearney street along Geary street and Point Lobos avenue to Tenth avenue, thence along Tenth avenue to Fulton street.

After the franchise is sold, it may be found advisable to offer for sale an additional franchise for the extension of the road along Market street to the ferries.

Should the Geary street franchise be sold, the resulting revenue to the city, aside from taxes, will be at least 3 per cent of the gross receipts during the first five years, 4 per cent during the next ten years, and 5 per cent during the last ten years.

This should amount to about \$6,000.00 per year for the first five years, about \$9,000.00 per year for the next ten years, and about \$12,000.00 per year for the last ten years. Municipal taxes will probably be in excess of \$10,000.00 per year.

The franchise, coupled as it should be with the requirement that the road be converted into an electric railway, would have very little value if sold for a short time period. Neither will any great advantage result from an early expiration of a new franchise on this line, because the franchise of connecting street car lines do not expire in the near future and the operation by the municipality of a short section of road such as the Geary street line, independently of a cross town line and without extensions to ferries and ocean, would be relatively expensive. Such a road would probably be of less service to the public under municipal ownership than if operated privately as a part of a general system.

The situation will be different when the municipality can take possession of the greater portion of the street car mileage and operate a system commanding practically the entire city. This will be in 1929, when many important franchises terminate. The term of the franchise has therefore been suggested at the limit allowed by the Charter 25 years.

There is one other street car company, the Presidio and Ferries Railroad Company, whose franchise expires in the near future. On East street, Jackson street, Washington street, Montgomery avenue and Union street westerly to Steiner, also on Baker street, from Greenwich to Jefferson streets and on Jefferson street, its franchise expires on December 30th, 1904; and on Union from Steiner to Baker, on Baker from Union to Greenwich, on Greenwich from Baker to Lyon, on December 10th, 1913. The operation of this road cannot therefore be continued after December 30th, 1904, without the consent of the municipality. But little of the roadbed in the case of the Presidio and Ferries Railroad should be considered serviceable for further use.

Geary street leads directly into Point Lobos avenue, and Point Lobos avenue passes centrally through Richmond and by way of Cliff House avenue is the direct line of approach to the Cliff House from the east. The restriction of the use of these streets, which would result from declaring them boulevards, would have a material bearing upon the development of Richmond to which Geary street is the most central avenue of approach. Three streets immediately to the southward of Geary street and four streets to the northward are blocked by cemetery tracts at the western limits of the western addition.

The steepest gradient on Geary street east of Van Ness avenue is between Jones and Leavenworth streets, 6.1 per cent. The steepest gradients west of Van Ness avenue are 8.9 per cent just east of Central avenue, for a distance of about 270 feet, and 9.2 per cent between Baker and Lyon streets. The total rise from Devisadero westerly to Central avenue is 124 feet in a distance of 1782 feet.

The future importance of Geary street as a main avenue of approach to the Richmond district makes it appear inadvisable to set it apart as a boulevard. It therefore seems advisable that the operation of the cable road should be continued for a few years by the municipality or under a lease of the roadbed by a private corporation, or that a new franchise should be sold.

This report is necessarily of a preliminary character without close estimates of expenditures and revenues, because the financial aspect of several of the propositions may depend to a considerable extent upon the attitude of the Geary Street, Park and Ocean Railway Company in relation thereto. No attempt has been made to ascertain the views of the management of the railroad in these matters.

This report has been prepared at your direction, your Board having been requested, by resolution No. 3236 of the Board of Supervisors, to report such plans as may be feasible and to the interest of the city regarding the use of Geary street and the roadbed of the Geary street railroad after an expiration of the existing franchise.

Very respectfully,

(Signed) C. E. GRUNSKY,
City Engineer.

Dated, San Francisco, Jan. 19th, 1903.

Thereafter, by Ordinance No. 713, approved April 28, 1903, the Board of Supervisors again called for estimates of cost over the same route, preliminary to again submitting the proposition to the electors.

The following report was filed by the Board of Public Works, June 30, 1903, in response thereto:

REPORT OF CITY ENGINEER ON CONSTRUCTION OF A STREET RAILROAD ON GEARY STREET, POINT LOBOS AVENUE AND TENTH AVENUE TO GOLDEN GATE PARK.

San Francisco, June 30, 1903.

To the Honorable the Board of Public Works,
of the City and County of San Francisco.

Gentlemen:—Ordinance No. 713 of the Board of Supervisors directs your Board to have made by the City Engineer plans and estimate of cost of the original construction and completion of a street railroad from Fulton street on Tenth avenue, along Tenth avenue to Point Lobos avenue to Geary street and along Geary street to Market street.

Operation by this municipality of a street railway on Geary street has already received some consideration and has been previously reported upon under date of

October 25, 1901, and on May 8, 1902. It is not necessary to enter into a discussion of the information then submitted. It will suffice to say that the data presented in these earlier reports have served as a basis for the present report and cost estimate.

The route prescribed by Ordinance No. 713 is the same as that which was made the basis of the cost estimate under Project J of the report dated May 8, 1902.

Ordinance No. 713 leaves you free to suggest such type of road and method of operation as you deem best suited to existing conditions. The gradients on the proposed line of railroad are such as to make operation by electrically transmitted power possible. The advantages of the electrical system of operation over the cable system are so well recognized that, in all new installations of street railways, electricity is at the present day given the preference over cables.

Upon expiration of the Geary street franchise in November of this year the municipality can, in all probability, enter into possession and make use of the road-bed now on Geary street and on Point Lobos avenue. On this assumption the proposed street railway has been planned along the route directed by Ordinance. It is proposed to convert the cable road into an electric railway with underground conductors of electricity from the westerly termination of Geary street at Market to Fifth avenue, and to extend the same along Point Lobos avenue to Tenth avenue and thence along Tenth avenue to the Park as a conduit electric road of new construction. The conversion of the cable road into an electric road and the utilization of the cable conduit to receive the conductors of electricity is shown on the plans herewith submitted. The construction of the road westerly from Fifth avenue is somewhat more expensive as a conduit electric road than it would be if extended on the overhead trolley system. The underground conductors are, however, recommended for this section to unify the system. The construction of this section on the overhead trolley system, would reduce first cost about \$85,000.

The office, power station and car-house for this road are to be located on the site of the present power house of the Geary street Railway at the northeasterly corner of Geary and Buchanan streets or on the northerly side of Geary street easterly from Broderick street.

The plans herewith submitted show the proposed methods of construction and the location of the road, and indicate which portion thereof is to be entirely new construction and which portion is to be changed from a cable to an electric line. Reference is made to the report filed October 25, 1901, for additional information describing the conduit electric railways and their operation in other cities.

The power for the operation of the road would be furnished by two vertical compound condensing engines, each of 625 h. p. at the most economical cut-off (capable of a maximum out-put of 930 h. p.) All necessary condensers, pumps, electrical machinery, car elevators, shop equipment and the like are covered by the cost estimate.

The road is to be equipped with 30 modern electric cars 32 feet long with two 35 h. p. motors on each. Ordinarily there will be 16 to 18 cars in the service; on busy days upwards of 24.

The following cost estimate includes the complete conversion into an electric railway of the cable road so far as it is to become a part of the system; the removal of the turn table at the foot of Geary street; the electric bounding of rails; the construction of the new section of road; insulators, switches, cross-overs, the three story brick power station car-house and office combined, real estate for the power station; cars steam and electrical machinery, switch-boards, tools and the like, and all other appliances and appurtenances necessary to make the installation complete and ready for operation.

ESTIMATE OF COST.

Conversion of the present Geary street road into an electric road with underground conductors of electricity from Market street to Fifth avenue, 3.335 miles.....	\$60,620
New road along Point Lobos avenue from Fifth avenue to Tenth avenue, along Fifth avenue to Fulton street 0.808 miles, including bituminous rock pavement.....	115,150
Removal of water and gas pipes, conduits and other obstructions.....	25,000
Power station, three story brick building, (office and car-house) cooling tanks, oil tanks, etc.....	94,000
Steam engines, condensers, pumps, electric machinery, tools, etc.....	93,500
Thirty double truck cars 32 feet long with two 35 h. p. motors each.....	133,500
Conductor, cable, lead covered and ducts for cable.....	90,000
Real Estate.....	35,000
	<hr/>
	\$646,770
Engineering and contingencies about 10%.....	63,230
Total estimate cost.....	<hr/>
	\$710,000

The receipts of the road, based upon a five cent fare and half rates to school children, may be expected to be about \$175,000 to \$200,000.

Not including damages for which the municipality might become liable, on the assumption that conductors and motormen be paid at the rate of thirty-one and one quarter cents per hour (\$2.50 for eight hours' work) on the further assumption that for no services, the compensation is to be less than \$75.00 per month, and apart from the allowance for maintenance and depreciation and from the interest and sinking fund account, the expense of operation would be approximately \$148,000 per year.

To this amount there should be added about \$30,000 per year for maintenance. At 3½% per annum the interest on the full amount of bonds to be issued would amount to \$24,850, but there would be an annual reduction of this interest as bonds are paid, by \$621.25. For the Sinking fund to retire one-fortieth of the amount of bonds issued \$17,750 per year would be required.

This report is accompanied by plans on Sheets Nos. 1, 2, 3, 4, 5, 6 and 7, entitled "Plans for Geary street Electric Railway, prepared by C. E. Grunsky, City Engineer, under direction of the Board of Public Works, as per provisions of Ordinance No. 713 of the Board of Supervisors, San Francisco, Cal., June 30, 1903." Sheet No. 7 has been added to show the method of road-bed construction adopted for the Metropolitan Street Railway of New York.

Respectfully,

C. E. GRUNSKY,
City Engineer.

The proposition of incurring a bonded indebtedness of \$710,000 for the construction of the road along the route hereinbefore described was submitted to the electors at a Special Election held on October 8, 1903, and was defeated a second time by a vote of 14,351 for, to 10,790 against, a two-third vote being essential to carry.

By Resolution No. 3436, of the Board of Supervisors, approved March 10, 1903 the Board of Public Works was directed to estimate the cost of converting the Geary Street Cable Railway into an electric railway with overhead trolley and its equipment with the necessary rolling stock, and also to estimate the cost of operating said electric railway with power purchased from electric power companies.

For the reasons set forth in said report the same was withheld by the Board of Public Works and not filed until after the second defeat of the Geary Street Railroad proposition as hereinbefore noted.

The following is a copy of said report, filed November 9, 1903:

REPORT OF CITY ENGINEER UPON THE FEASIBILITY AND COST OF CONVERTING THE GEARY STREET CABLE RAILROAD INTO AN ELECTRIC ROAD WITH OVERHEAD TROLLEY.

San Francisco, October 13, 1903.

To the Honorable The Board of Public Works
of the City and County of San Francisco.

Gentlemen:—There is transmitted herewith the report of Mr. J. C. H. Stut, who was employed some months ago, as Consulting Mechanical Engineer, to report upon the feasibility and cost of converting the Geary Street Cable Railway into an electric road with overhead trolley. The information contained in this report was called for by Resolution No. 3436 of the Board of Supervisors. It has not been heretofore transmitted owing to the fact that other plans relating to the Geary Street Railway were under consideration by the Supervisors at the time of its completion. These other plan culminated in a submission of the question to the electors, on the eighth of this month, whether bonds in the amount of \$710,000 should be issued, to be used by the municipality in converting the road into an electric line with underground conductors of electricity. The bonds did not receive the necessary two-thirds vote. As the question of the construction and operation of the road by the municipality under a bond issue has thus been disposed of for the present, the report of Mr. Stut should now be filed with the Supervisors.

It was thought advisable to submit to Mr. Stut not only the question relating to the feasibility and cost of converting the Geary Street Railway into an electric railway with overhead trolley, but to obtain also a report upon the alternate project of an extension westerly to Tenth avenue and thence southerly to the Park. Mr. Stut was also asked to estimate the cost of converting the present road from Kearney street westerly to Fifth avenue into an electric railway with underground conductors of electricity combined with an extension on the overhead trolley system on Point Lobos avenue to Tenth avenue and along Tenth avenue to the Park. This has been done. The result of his estimate may be briefly stated as follows:

Overhead trolley, electric railroad on Geary street from Kearney to Point Lobos avenue, on Point Lobos avenue to Fifth avenue, on Fifth avenue to Golden Gate Park, estimated cost.....	\$401,920
Overhead trolley, electric railroad on Geary street from Kearney street to Point Lobos avenue, on Point Lobos avenue to Tenth avenue, on Tenth avenue to Golden Gate Park, estimated cost.....	\$425,920

Electric railroad with underground conductors on Geary street from Kearney to Point Lobos avenue and on Point Lobos avenue to Fifth avenue thence overhead trolley electric railroad on Point Lobos avenue to Tenth avenue and on Tenth avenue to Golden Gate Park, estimated cost \$495,400

Very respectfully,

C. E. GRUNSKY,
City Engineer.

REPORT OF J. C. H. STUT ON THE CONVERSION OF THE GEARY STREET CABLE RAILROAD INTO AN ELECTRIC RAILROAD.

April 13, 1903.

To Mr. C. E. Grunsky, City Engineer,
San Francisco, Cal.

Dear Sir:—Pursuant to a Resolution passed by the Board of Supervisors of the City and County of San Francisco, viz:

"Resolved, that the Board of Public Works is hereby directed and requested to report to this Board an estimate of the cost of the conversion of the Geary street Cable Railway into an electric railway, with over-head trolley, and its equipment with necessary rolling stock, together with an estimate of the cost of operating said railway with power purchased from electric power companies."

As agreed with you, I beg leave herewith to report on this estimate of cost of conversion of the Geary Street Cable Railway into an electric railway, with overhead trolley, its equipment, and with the necessary rolling stock, together with an estimate of the cost of operating said railway with power purchased from electric power companies of this city.

GENERAL REMARKS.

The estimates of cost herewith presented are made for three entirely distinct projects of conversion and not for one alone, as directed in the above resolution. This, of course, has required a large amount of extra work that was not thought of in the beginning of my investigations, nevertheless, it has been considered advisable to give to the Board of Public Works this extra information, so that the Board will have the figures and estimates for all three projects and so will be able to recommend any of them, if so desired.

These three projects are:

First:—The conversion of the Geary Street Cable Railway into an overhead electric trolley road. The road to extend from its present terminus, east of Kearney street, along Geary street to Point Lobos avenue, along Point Lobos avenue to Fifth (5th) avenue, along Fifth avenue to Golden Gate Park.

Second:—The conversion of the Geary Street Cable Railroad into an overhead electric trolley road. The road to extend from its present terminus east of Kearney street, along Geary street to Point Lobos avenue, along Point Lobos avenue to Tenth (10th) avenue, and along Tenth avenue to Golden Gate Park. The distance of the road from Fifth avenue, along Point Lobos avenue to Tenth avenue, and along Tenth avenue to the Park is 0.808 miles; this is estimated as entirely new road to be built.

Third:—The conversion of the Geary Street Cable Railroad into a conduit electric system, in combination with an overhead electric trolley system. The conduit system to extend from the present terminus, east of Kearney street, along Geary street to Point Lobos avenue, along Point Lobos avenue to Fifth avenue. At Fifth avenue the trolley system will commence, extending along Point Lobos avenue to Tenth (10th) avenue, and along Tenth avenue to Golden Gate Park.

REMARKS ON THE ABOVE THREE PROJECTS OR PROPOSITIONS.

THE FIRST PROPOSITION.

The first of these three projects is the one that is covered by the above quoted resolution, passed by the Board of Supervisors. This project contemplates the conversion of the present Geary street Cable Railroad into an overhead electric road, commencing at Kearney street and ending on Fifth avenue at Golden Gate Park.

A good feature of this project is its comparative cheapness, as compared with two the two following propositions. It is the cheapest of the three, as will be seen later on. An undesirable feature is its terminus at Golden Gate Park at Fifth avenue, too far removed from the amusement centers.

THE SECOND PROPOSITION.

The second of these propositions overcomes this undesirable feature, because at Tenth avenue there is an entrance to the Park near the music stand and the park museum, and the terminus would also take in the Chutes, but this project would cost

somewhat more than the first, because 0.808 miles of new double track must be built from Fifth avenue to Tenth avenue and along Tenth avenue to the Park. In this case the old tracks on Fifth avenue are considered to be abandoned.

THE THIRD PROPOSITION.

The third project involves the conversion of the present cable road into a modern, up-to-date, conduit electric road from Kearney street to Fifth avenue. From Fifth to Tenth avenues, and along Tenth avenue to the Park, a new overhead trolley road would be required. Or, in other words, this proposition will be a combination of a conduit and a trolley road. The same cars will use both the conduit and the trolley.

When a car arrives at the point of junction between conduit and trolley lines, it will drop the plow for the conduit, and take up the trolley, or vice-versa, without any inconvenience to the passengers whatever. That this can be done has been demonstrated for years in the City of Washington.

Of course, the road could be made of conduit entirely, but, on account of first cost, it may be found advisable not to do so. This construction would abolish all poles, wires, and other overhead appurtenances of an overhead trolley road, in the populated portion of the city, and besides, it would give the people of San Francisco an object lesson for other street railroads.

This city has been the leading city for cable railroads for years, whereas, it has no conduit electric roads as yet, and therefore not up-to-date and cannot compare with some Eastern cities of the United States in this respect.

The cost of this construction is higher than either of the two preceding projects, still the difference is not so very large, as will be seen later on, whereas the power consumption is fully ten (10%) per cent less, as compared with a trolley road of the same length and traffic; this was repeatedly stated to me by eastern engineers of experience when I made my investigation for my previous report in 1901.

The cable road on Fifth avenue is to be considered abandoned in this project also.

POWER.

For power to operate the cars on the road, electric current is to be purchased from any of the larger electric companies that are now furnishing power to the city. From my interview with some of the representatives of these companies, this power can be obtained from them without any serious trouble, and so long as the people of San Francisco are willing to pay for it.

There is one thing, however, that these companies will probably insist on, and that is the introduction of a storage battery in connection with the necessary motors. This battery is assumed to even up, the great variations of power required on electric railroads. The argument is made by the company that their main circuits also furnish currents for light, and that the light must of necessity, have a steady voltage and current; and this cannot be done at the present state of the art, without the introduction of a storage battery between the main circuits and the circuits that will operate the electric road. On this account, I had to consider this proposition, and in all three projects an estimate of cost of fifty thousand (\$50,000) dollars is allowed for this purpose.

ESTIMATE OF COST.

FIRST PROPOSITION.

For an overhead trolley railroad on Geary street, from Kearney street to Fifth avenue, to Golden Gate Park. Everything pertaining to an overhead electric road is estimated on viz:

Electric bonding of the present rails: trolley feed and guard wires, iron poles, insulators, eye-bolts, switches, filling the present cable conduit with sand, and cement on top of the sand; removing the turntable at Kearney street; cross-covers, one three-story brick carhouse and office building combined, real estate, one fifty-vara lot, thirty (30) modern electric cars, thirty-two (32) feet long, one storage battery, double set of motor-generators for the electric current, with all the necessary switch-boards, appurtenances, transformers, etc., all complete for the sum of \$401,920.00

ESTIMATED EXPENSE FOR YEAR PER THE ABOVE ROAD.

Including management, secretary, book-keeper, receivers, electricians, time-keepers, carpenters, trackmen, watchmen, car-washers, blacksmith, machinists, motormen and conductors, deterioration and maintenance of tracks, wires, cars, motors, storage battery, office, carhouse, etc., stationery, printing, legal expenses and three and one-half (3½) per cent. interest on \$405,000.00 investment.

The total expenditure per year will be \$196,275.00. There is no insurance nor taxes included in these expenses nor a damage account.

ESTIMATE OF COST.

SECOND PROPOSITION.

Overhead electric trolley road from Kearney street to Tenth avenue and Golden Gate Park. All the expenses are as above, in the first proposition, with the additional cost of 0.808 miles of new double track road, from Fifth avenue to Tenth avenue, along Point Lobos avenue, and along Tenth avenue to the Park. This new road is supposed to be constructed of the latest one hundred and seven (107) pounds per yard, grooved girder rail nine (9) inches deep, and the street is supposed to be paved with asphalt between the tracks and two (2) feet on either side of track. All this new road to be electrically equipped, the same as the converted portion on Geary street.

The total estimated cost of this proposition is \$425,920.00.

That portion of the Geary street system on Fifth avenue from Point Lobos to the Park is supposed to be entirely abandoned in this proposition.

ESTIMATED EXPENSE PER YEAR FOR THE SECOND PROPOSITION.

The expense account for this proposition includes the same items as the first with three and one-half (3½%) per cent. interest on \$430,000 investment. The total expenditure, per year, will be \$197,657.00. No insurance, taxes or damages are included in this estimate.

ESTIMATE OF COST OF THE THIRD PROPOSITION.

This proposition contemplates the conversion of the present Geary street conduit for cable into a conduit for an electric road. The rails, slot iron and conduit as at present, will be left undisturbed, and only conductor rails and insulators introduced into the present conduit so as to equip it for electricity. This conduit electric road is contemplated to extend out to Fifth avenue, or as far as the cable conduit goes on Point Lobos avenue, from here to Tenth avenue and to the Park an overhead line with heavy grooved girder rails is contemplated, as in the second proposition.

The cost of this Third Proposition, including everything fully equipped and complete, is estimated as \$493,400.00.

ESTIMATED EXPENSE PER YEAR FOR THIS THIRD PROPOSITION.

This account includes every item again the same as in proposition one, with three and one-half (3½%) per cent. interest on \$500,000 investment, and amounts per year to \$196,840.00.

No insurance, taxes or damages are estimated.

As will be seen the expense account is only a very small amount more than that for the first proposition; this is accounted for from the fact that an electric conduit road takes less current per horse power than an overhead trolley road.

In this proposition, also, it is assumed that the present cable conduit on Fifth avenue from Point Lobos avenue to the Park will be entirely abandoned.

SUMMARY ESTIMATED COSTS AND ANNUAL EXPENSE.

Estimated Costs.	Estimated Expenses per Year.
I. \$401,920.00.....	\$196,275.00
II. 425,920.00.....	197,657.00
III. 493,400.00.....	196,840.00

As stated above, in the expense accounts, nothing is allowed for insurance, taxes and probable damages.

Respectfully submitted,
(Signed) J. C. H. STUT.

PRESENT OPERATION OF THE GEARY STREET RAILROAD.

On November 6th, 1878, a franchise was granted by Order No. 1469, to Chas. Main, Robert Morton, S. C. Bigelow, James McCord, William Eppelsheimer, C. F. MacDermot and Thos. R. Hayes and to their successors and assignees to operate a street railroad for the period of twenty-five years along Geary street from Kearny to Central avenue, along Point Lobos avenue to First avenue and along First avenue to Golden Gate Park. Thereafter, on December 9th, 1890, by Order No. 2290, the Geary street, Park and Ocean Railroad Company, as successor in interest to the parties named in the original grant, was granted a franchise to extend its tracks and operate its street railroad along Point Lobos avenue to Fifth avenue and along Fifth avenue to the Park. The period for which the foregoing franchises was granted expired November 6, 1903.

Upon the expiration of the franchise, applications were made to the Board of Supervisors for a renewal thereof, which applications were not granted. Application was also made to operate the road, but this permission was not given. The road has continued to be operated, however, without any authority granted by the Board of Supervisors so to do. The Geary street, Park and Ocean Railroad Company has, however, voluntarily paid into the City and County Treasury what it stated to be five per cent of its gross earnings. Such payments have been made monthly and the payments were based on the stated gross earnings for the month previous. The following are the amounts so paid:

AMOUNTS PAID BY GEARY STREET, PARK AND OCEAN RAILROAD COMPANY TO THE CITY AND COUNTY OF SAN FRANCISCO.

Month	Stated Gross Earnings.	Amount paid City.
1903 November (from November 6th).....	\$11,142.98	\$557.15
December.....	14,840.20	742.00
1904 January.....	13,656.22	682.80
February.....	12,204.85	610.24
March.....	13,155.92	657.87
April.....	14,167.75	708.38
May.....	14,103.74	705.18
June.....	11,929.93	596.49
July.....	12,231.00	611.55
August.....	13,063.82	653.19
September.....	14,857.02	742.85
October.....	14,729.20	736.46
November.....	13,676.66	683.83
December.....	14,529.10	726.45
1905 January.....	11,818.88	590.94
February.....	12,749.23	637.46
March.....	13,329.01	666.45
April.....	14,096.69	704.83
May.....	13,727.39	686.37
June.....	12,590.14	629.51
	\$266,599.73	\$13,330.00

CONSTRUCTION OF GEARY STREET RAILROAD OUT OF ANNUAL REVENUE OF THE CITY AND COUNTY.

It being the declared policy of the City and County of San Francisco, as expressed in its charter, to gradually acquire and ultimately own its public utilities, and it being permissible under the law to bear the cost thereof out of the annual revenues, if the condition of the funds would so allow, instead of submitting to the electors a proposition to incur a bonded debt, the Board of Supervisors deeming it expedient to order the cost of construction of the Geary Street Railroad paid out of said annual revenues, passed Ordinance No. 1477, approved May 12, 1905, determining and declaring that public interest and necessity demanded the construction of a street railroad from Market and Geary streets, along Geary street to Point Lobos avenue to Tenth avenue and along Tenth avenue to Fulton street, and directed the Board of Public Works to procure through the City Engineer and file with the Supervisors, plans and estimates of cost of said street railroad.

On May 25, 1905, the Board of Public Works transmitted to and filed with the Board of Supervisors the Report of the City Engineer as follows:

REPORT OF CITY ENGINEER ON COST OF CONSTRUCTION OF AN UNDERGROUND ELECTRIC RAILWAY ON GEARY STREET AND OTHER STREETS.

(NOTE—This report was lost in the fire of April, 1906, and a copy cannot be obtained.)

With the Report of the City Engineer before it, the Board of Supervisors finally passed on June 5, 1905, the Budget of Municipal Expenditures for the fiscal year ending June 30, 1906, approved June 15, 1905, wherein was set aside and appropriated out of the funds of said fiscal year the sum of \$350,000.00, for the construction of a municipal street railroad from Market street along Geary street, to Point Lobos avenue, along Point Lobos avenue to Tenth avenue, thence along Tenth avenue to Fulton street, also for the purchase of a site for a car and power house and for the construction or purchase of a building.

In line with its expressed policy the Board on July 10, 1905, passed Resolution No. 6159, approved July 24, 1905, directed the City Engineer to prepare and transmit to the Supervisors specifications in detail for the construction of the road, (excluding car and power house) in accordance with plans and estimates of said Engineer, filed May 25, 1905, in order that bids may be invited for so much of the construction of said street railroad as may be accomplished within the appropriation of \$350,000, set aside in the Budget of 1905-1906.

Southern Pacific Company's Bay Shore Franchise

The proceedings relating to the passage of so-called "Bay Shore Franchise" of the Southern Pacific Company, granted by Ordinance No. 1095 of the Board of Supervisors, approved January 7, 1904, is treated of at length in the Appendix to the Municipal Reports of the Fiscal year 1903-04, pages 679-709.

The conditions subsequent imposed upon the Southern Pacific Company in the grant of said franchise were complied with by said Company within the time limits specified in the Ordinance, as appears in the history of the matter specified in the aforesaid Appendix.

The purpose of this article is to continue said history and to show the compliance by the grantee of all the conditions imposed.

Section 9 of said Ordinance No. 1095 provides that the Southern Pacific Company shall convey to the City and County a strip of land twenty feet in width adjacent to and widening Fourth and Kentucky streets, cut from such property as said Railroad Company owns along the northeasterly line of Fourth street southerly from Channel street, and along the easterly line of Kentucky street, and also that said Company shall convey a strip of land ten feet in width along the northerly line of Sixteenth street between Seventh street and the Water Front for the purpose of widening said Sixteenth street.

Four deeds conveying said lands to the City and County were delivered by the Southern Pacific Company to Mayor E. E. Schmitz, which deeds were subsequently transmitted to and filed with the Board of Supervisors by his Honor, on June 28, 1905.

The deeds were thereupon referred by the Board to the City Engineer for verification of description to abutting street lines and upon the receipt of his report as to the correctness thereof, the said deeds were accepted, the lands conveyed dedicated to public use and declared to be open public streets to be known and designated by the names of the streets immediately adjoining, by Ordinance No. 1618, of the Board of Supervisors, a copy of which is as follows:

BILL No. 1830, ORDINANCE No. 1618.

Accepting deeds from the Southern Pacific Railroad Company, the Southern Pacific Railroad Company and the Central Pacific Railway Company, and the Southern Pacific Railroad Company, conveying certain lands to the City and County of San Francisco for street purposes, pursuant to the provisions of Ordinance No. 1095, entitled "Providing for a grant to Southern Pacific Company, a railroad corporation, of a right of way for and the right to construct, maintain and operate a railroad, together with all necessary branches, sidetracks, turnouts, switches, crossings, spur tracks, yard tracks, depot tracks, and terminal tracks and facilities, along, over, under, across and upon certain streets, avenues, alleys, places and properties in the City and County of San Francisco." (Approved January 7, 1904.)

Be it ordained by the People of the City and County of San Francisco as follows:

Section 1. The following deeds of the Southern Pacific Railroad Company, the Southern Pacific Railroad Company and the Central Pacific Railway Company, and the Southern Pacific Company, conveying certain lands hereinafter described to the City and County of San Francisco for street purposes, pursuant to the provisions of Ordinance No. 1095, entitled "Providing for a grant to the Southern Pacific Company, a railroad corporation, of a right of way for and the right to construct, maintain and operate a railroad, together with all necessary branches, sidetracks, turnouts, switches, crossings, spur tracks, yard tracks, depot tracks and terminal tracks and facilities, along, over, under, across and upon certain streets, avenues, alleys, places and properties in the City and County of San Francisco" (approved January 7, 1904), are hereby accepted, to-wit:

Deed from the Southern Pacific Railroad Company, a corporation, consolidated, incorporated and existing under the laws of the State of California and of the Territories of Arizona and New Mexico, to the City and County of San Francisco, made the seventh (7th) day of October, 1904, to the following described lands, to-wit:

1st. Commencing at the southeasterly corner of Merrimac and Kentucky streets, and running thence southerly and along the easterly line of Kentucky street two hundred and ten (210) feet; thence at right angles easterly twenty (20) feet; thence at right angles northerly two hundred and ten (210) feet to the southerly line of Merrimac street; thence at right angles westerly and along the said southerly line of Merrimac

street twenty (20) feet to the point of beginning. Being a portion of lots six (6) and seven (7) and eight (8) of block number four hundred and eighteen (418) of the State Tide Land Survey.

2d. Commencing at the northeasterly corner of Sixteenth and Kentucky streets, and running thence northerly and along the easterly line of Kentucky street one hundred (100) feet; thence at right angles easterly twenty (20) feet; thence at right angles southerly ninety (90) feet; thence at right angles easterly thirty (30) feet; thence at right angles southerly ten (10) feet to the northerly line of Sixteenth street; thence at right angles westerly and along the said northerly line of Sixteenth street fifty (50) feet to the point of beginning. Being a portion of lot four (4) in block number four hundred and sixteen (416) of the State Tide Land Survey.

3d. Commencing at the southeasterly corner of Sixteenth and Kentucky streets, and running thence southerly and along the easterly line of Kentucky street one hundred (100) feet; thence at right angles easterly twenty (20) feet; thence at right angles northerly one hundred (100) feet to the southerly line of Sixteenth street; thence at right angles westerly and along the said southerly line of Sixteenth street twenty (20) feet to the point of beginning. Being a portion of lot nine (9) in block number four hundred and fifteen (415) of the State Tide Land Survey.

4th. Commencing at the northeasterly corner of Seventeenth and Kentucky streets, and running thence northerly and along the easterly line of Kentucky street two hundred and seventy-eight (278) feet to the shore line of Mission Bay as surveyed by the State Board of Tide Land Commissioners; thence along said shore line south sixty-eight and one-quarter ($68\frac{1}{4}$) degrees east to a point distant twenty (20) feet, measured at right angles easterly from the easterly line of Kentucky street; thence southerly and parallel with Kentucky street to the northerly line of Seventeenth street; thence at right angles westerly and along said northerly line of Seventeenth street twenty (20) feet to the point of beginning. Being a portion of block number four hundred and fifteen (415) of the Potrero Nuevo.

5th. Commencing at the southeasterly corner of Seventeenth and Kentucky streets, and running thence southerly and along the easterly line of Kentucky street one hundred and thirty-seven (137) feet, five and one-half ($5\frac{1}{2}$) inches to the shore line of the Bay of San Francisco, as surveyed by the State Board of Tide Land Commissioners; thence along said shore line north twenty-four and three-quarters ($24\frac{3}{4}$) degrees east twenty-four (24) feet to a point; thence north four and three-quarters ($4\frac{3}{4}$) degrees east, continuing along said shore line sixteen (16) feet and nine (9) inches to a point; thence leaving said shore line and running easterly on a line parallel to and distant one hundred (100) feet measuring at right angles southerly from the southerly line of Seventeenth street five (5) feet and eight (8) inches; thence at right angles northerly one hundred (100) feet to the southerly line of Seventeenth street; thence at right angles westerly and along said southerly line of Seventeenth street twenty (20) feet to the point of beginning. Being a portion of block number four hundred and fourteen (414) of the Potrero Nuevo.

6th. Commencing at the northeasterly corner of Nineteenth and Kentucky streets, and running thence northerly and along the easterly line of Kentucky street one hundred (100) feet; thence at right angles easterly twenty (20) feet; thence at right angles southerly one hundred (100) feet to the northerly line of Nineteenth street; thence at right angles westerly and along the said northerly line of Nineteenth street twenty (20) feet to the point of beginning. Being a portion of lot four (4) of block number four hundred and twelve (412) of the State Tide Land Survey.

7th. Commencing at the intersection of the northerly line of Sixteenth street with the center line of Tennessee street, if extended northerly, and running thence westerly and along the said northerly line of Sixteenth street one hundred and forty (140) feet; thence at right angles northerly ten (10) feet; thence at right angles easterly one hundred and forty (140) feet to the said center line of Tennessee street, if extended as aforesaid; thence at right angles southerly and along said center line ten (10) feet to the point of beginning. Being a portion of lots one (1) and two (2) in block three hundred and eighty (380) of the State Tide Land Survey, and also a portion of that portion of Tennessee street which was closed by Order No. 2599 of the Board of Supervisors of the City and County of San Francisco.

Deed from the Southern Pacific Railroad Company, a corporation, consolidated, incorporated and existing under the laws of the State of California, and of the Territories of Arizona and New Mexico, and the Central Pacific Railway Company, a corporation incorporated and existing under the laws of the State of Utah, to the City and County of San Francisco, made the seventh (7th) day of October, 1904, to the following described lands, to-wit:

1st. Commencing at the easterly corner of Fourth and Channel street, and running thence southeasterly along the northeasterly line of Fourth street two hundred and forty (240) feet to the northwesterly line of Hooper street; thence at right angles northeasterly and along the said northwesterly line of Hooper street twenty (20) feet; thence at right angles northwesterly two hundred and forty (240) feet to the southeasterly line of Channel street; thence at right angles southwesterly and along said southeasterly line of Channel street twenty (20) feet to the point of beginning. Being portions of lots one (1) to six (6), both inclusive, of block number forty-three (43), of the State Tide Land Survey.

2d. Commencing at the easterly corner of Fourth and Hooper streets, and running thence southeasterly along the northeasterly line of Fourth street two hundred and forty (240) feet to the northwesterly line of Irwin street; thence at right angles northeasterly and along the said northwesterly line of Irwin street twenty (20) feet; thence at right angles northwesterly two hundred and forty (240) feet to the southeasterly line of Hooper street; thence at right angles southwesterly and along the said southeasterly line of Hooper street twenty (20) feet to the point of beginning. Being a portion of lots one (1) to six (6), both inclusive, of block number forty-four (44) of the State Tide Land Survey.

3d. Commencing at the easterly corner of Fourth and Irwin streets, and running thence southeasterly along the northeasterly line of Fourth street two hundred and forty (40) feet to the northwesterly line of Hubbell street; thence at right angles northeasterly and along the said northwesterly line of Hubbell street twenty (20) feet; thence at right angles northwesterly two hundred and forty (240) feet to the southeasterly line of Irwin street; thence at right angles southwesterly and along the said southeasterly line of Irwin street twenty (20) feet to the point of beginning. Being a portion of lots one (1) to six (6), both inclusive, of block number forty-five (45) of the State Tide Land Survey.

4th. Commencing at the northeasterly corner of Merrimac and Kentucky streets, and running thence northerly and along the easterly line of Kentucky street four hundred (400) feet; thence at right angles easterly twenty (20) feet; thence at right angles southerly four hundred (400) feet to the northerly line of Merrimac street; thence at right angles westerly and along the said northerly line of Merrimac street twenty (20) feet to the point of beginning. Being portions of lots four (4) to nine (9), both inclusive, of block number forty-seven (47) of the State Tide Land Survey.

5th. Commencing at the northeasterly corner of Alameda and Kentucky streets, and running thence northerly and along the easterly line of Kentucky street one hundred and fifty (150) feet; thence at right angles easterly twenty (20) feet; thence at right angles southerly one hundred and fifty (150) feet to the northerly line of Alameda street; thence at right angles westerly and along the said northerly line of Alameda street twenty (20) feet to the point of beginning. Being portions of lots four (4) and five (5) of block number four hundred and eighteen (418) of the State Tide Land Survey.

6th. Commencing at the northeasterly corner of El Dorado and Kentucky streets, and running thence northerly and along the easterly line of Kentucky street four hundred (400) feet to the southerly line of Alameda street; thence at right angles easterly and along the said southerly line of Alameda street twenty (20) feet; thence at right angles southerly four hundred (400) feet to the northerly line of El Dorado street; thence at right angles westerly and along the said northerly line of El Dorado street twenty (20) feet to the point of beginning. Being parts of lots four (4) and five (5) of block number four hundred and seventeen and one-half (417½) and parts of lots eight (8) and nine (9) of block number four hundred and seventeen (417) of the State Tide Land Survey, and also a portion of that portion of Fifth street which was closed by Order No. 2599 of the Board of Supervisors of the City and County of San Francisco.

7th. Commencing at the southeast corner of El Dorado and Kentucky streets, and running thence southerly along the easterly line of Kentucky street three hundred (300) feet; thence at right angles easterly twenty (20) feet; thence at right angles northerly three hundred (300) feet to the southerly line of El Dorado street; thence at right angles westerly and along the said southerly line of El Dorado street twenty (20) feet to the point of beginning. Being a portion of lots five (5) to nine (9), both inclusive, of State Tide Land Survey block number four hundred and sixteen (416).

8th. Commencing at a point on the easterly line of Kentucky street, distant thereon one hundred (100) feet southerly from the southerly line of Sixteenth street, and running thence southerly and along the said easterly line of Kentucky street twenty-two (22) feet; thence south sixty-eight and one-quarter (68¼) degrees east along the shore line of Mission Bay, as surveyed by the State Board of Tide Land Commissioners, to a point distant twenty (20) feet measured at right angles easterly from the said easterly line of Kentucky street; thence northerly and parallel to the said easterly line of Kentucky street to a point distant one hundred (100) feet measured at right angles southerly from the southerly line of said Sixteenth street; thence at right angles westerly twenty feet (20) to the point of beginning. Being a portion of lot eight (8) of block number four hundred and fifteen (415) of the State Tide Land Survey.

9th. Commencing at the northeast corner of Mariposa and Kentucky streets, and running thence northerly and along the easterly line of Kentucky street two hundred and sixty-two (262) feet six and one-half (6½) inches; thence north twenty-four and three-quarters (24¾) degrees east along the shore line of the Bay of San Francisco, as surveyed by the State Board of Tide Land Commissioners, twenty-four (24) feet to a point; thence continuing along said shore line north four and three-quarters (4¾) degrees east sixteen (16) feet and nine (9) inches to a point; thence leaving said shore line and running easterly on a line parallel to and distant one hundred (100) feet measured at right angles southerly from the southerly line of Seventeenth street

five (5) feet and eight (8) inches; thence at right angles southerly and parallel with Kentucky street three hundred (300) feet to the northerly line of Mariposa street; thence at right angles westerly and along the said northerly line of Mariposa street twenty (20) feet to the point of beginning. Being a portion of lots four (4) to eight (8), both inclusive, in block number four hundred and fourteen (414) of the State Tide Land Survey.

10th. Commencing at the southeasterly corner of Mariposa and Kentucky streets and running thence southerly and along the said easterly line of Kentucky street four hundred (400) feet to the northerly line of Eighteenth street; thence at right angles easterly and along the said northerly line of Eighteenth street twenty (20) feet; thence at right angles northerly four hundred (400) feet to the southerly line of Mariposa street; thence at right angles westerly and along the southerly line of said Mariposa street, twenty (20) feet to the point of beginning. Being a portion of lots four (4) to nine (9), both inclusive in block number four hundred and thirteen (413).

11th. Commencing at the southeast corner of Eighteenth and Kentucky streets and running thence southerly and along the easterly line of Kentucky street three hundred (300) feet; thence at right angles easterly twenty (20) feet; thence at right angles northerly three hundred (300) feet to the southerly line of Eighteenth street; thence at right angles westerly and along the said southerly line of Eighteenth street twenty (20) feet to the point of beginning. Being a portion of lots five (5) to nine (9), both inclusive, in Block No. four hundred and twelve (412) of the State Tide Land Survey.

12th. Commencing at the northeast corner of Twenty-fourth and Kentucky streets and running thence northerly and along the easterly line of Kentucky street two hundred and fifty (250) feet; thence at right angles easterly twenty (20) feet; thence at right angles southerly two hundred and fifty (250) feet to the northerly line of Twenty-fourth street; thence at right angles westerly and along the northerly line of said Twenty-fourth street twenty (20) feet to the point of beginning. Being a portion of lots four (4) to seven (7), both inclusive, in Block No. four hundred and six (406) of the State Tide Land Survey.

13th. Commencing at the southeasterly corner of Twenty-fourth and Kentucky streets and running thence southerly and along the easterly line of Kentucky street two hundred (200) feet; thence at right angles easterly twenty (20) feet; thence at right angles northerly two hundred (200) feet to the southerly line of Twenty-fourth street; thence at right angles westerly and along the southerly line of said Twenty-fourth street twenty (20) feet to the point of beginning. Being a portion of lots seven (7) to nine (9), both inclusive, in Block No. four hundred and five (405) of the State Tide Land Survey.

14th. Commencing at the intersection of the northerly line of Sixteenth street with the center line of Yuma street as closed, and running thence easterly and along the northerly line of said Sixteenth street to the southwesterly line of Sixth street; thence northwesterly and along the southwesterly line of Sixth street to a point distant ten (10) feet measured at right angles northerly from the northerly line of Sixteenth street; thence westerly and parallel with Sixteenth street to the center line of Yuma street as closed; thence southwesterly along the center line of said Yuma street to the point of beginning. Being a portion of lots one (1) to eight (8), both inclusive, of Block No. three hundred and forty-nine and one-half (349½) of the State Tide Land Survey, and a portion of Yuma street as closed by Order No. 2599 of the Board of Supervisors of the said City and County of San Francisco.

15th. Commencing at the intersection of the northerly line of Sixteenth street with the northeasterly line of Sixth street and running thence easterly and along the said northerly line of Sixteenth street eighty-one (81) feet and three (3) inches; thence at right angles northerly ten (10) feet; thence at right angles westerly to the northeasterly line of Sixth street; thence southeasterly and along the said northeasterly line of Sixth street to the point of beginning. Being a portion of lots three (3) and four (4) of Block No. three hundred and eighty (380) of the State Tide Land Survey.

16th. Commencing at the northwesterly corner of Sixteenth and Kentucky streets and running thence westerly and along the northerly line of Sixteenth street two hundred and forty (240) feet to the center line of Tennessee street, if extended northerly; thence at right angles northerly and along said center line as extended aforesaid ten (10) feet; thence at right angles easterly two hundred and forty (240) feet to the westerly line of Kentucky street; thence at right angles southerly and along said westerly line of Kentucky street ten (10) feet to the point of beginning. Being a portion of lots one (1) to four (4), both inclusive, in Block No. three hundred and eighty-five (385) of the State Tide Land Survey, and also a portion of that portion of Tennessee street which was closed by Order No. 2599 of the Board of Supervisors of the City and County of San Francisco.

17th. Commencing at the northwesterly corner of Illinois and Sixteenth streets and running thence westerly and along the northerly line of Sixteenth street one hundred and fifty (150) feet; thence at right angles northerly ten (10) feet; thence at right angles easterly one hundred and fifty (150) feet to the westerly line of Illinois street; thence at right angles southerly and along the said westerly line of Illinois

street ten (10) feet to the point of beginning. Being a portion of lots one (1), two (2) and three (3) in Block No. four hundred and sixteen (416) of the State Tide Land Survey.

Deed from the Southern Pacific Company, a corporation created and existing under laws of the State of Kentucky, to the City and County of San Francisco, made the 16th day of September A. D. 1904, to the following described lands, to-wit:

1st. Commencing at the southwesterly corner of Gould street and Paul avenue and running thence southerly and along the westerly line of Gould street six hundred (600) feet to the northerly line of Salinas avenue; thence at right angles westerly and along the said northerly line of Salinas avenue forty (40) feet; thence at right angles northerly six hundred (600) feet to the southerly line of Paul avenue; thence at right angles easterly and along the said southerly line of Paul avenue forty (40) feet to the point of beginning. Being the easterly forty (40) feet of lots one (1) to twenty-four (24), both inclusive, in Block No. three (3) as shown on the map of the Garden Tract Homestead Association, which said map is on file in the office of the County Recorder of said City and County of San Francisco.

2d. Commencing at the northwesterly corner of Diana street and Williams avenue and running thence northerly and along the westerly line of Diana street four hundred and fifty (450) feet, more or less, to the southerly line of Thornton avenue; thence and at right angles westerly and along the said southerly line of Thornton avenue forty (40) feet; thence at right angles southerly four hundred and fifty (450) feet, more or less, to the northerly line of Williams avenue; thence at right angles easterly and along the said northerly line of Williams avenue forty (40) feet to the point of beginning. Being the easterly forty (40) feet of lots ten (10), twelve (12), fourteen (14), sixteen (16), eighteen (18), twenty (20), twenty-two (22), twenty-four (24), twenty-six (26) and twenty-eight (28), all of lots one (1) and thirty-six (36) and the easterly fifteen (15) feet of lots two (2) and thirty-five (35) of Block lettered "I" as per a certain map entitled "Plat showing the portion of the Silver Terrace described in the decree ordering partition, and as partitioned by the referee in his report dated June, 1873, R. H. Sinton, referee, recorded in the office of the County Recorder in and for the said City and County of San Francisco in Map book "C."

Deed from the Southern Pacific Company, a corporation created and existing under the laws of the State of Kentucky, to the City and County of San Francisco, made the 25th day of October, 1904, to the following described lands, to-wit:

1st. Commencing at the intersection of the northerly line of Sixteenth street with the southeasterly line of West El Dorado street and running thence easterly and along the said northerly line of Sixteenth street to the center line of Yuma street as closed; thence northeasterly and along said center line of Yuma street to a point distant ten (10) feet measured at right angles northerly from the said northerly line of Sixteenth street; thence westerly and parallel to the said northerly line of Sixteenth street to the southeasterly line of West El Dorado street; thence southwesterly and along the said southeasterly line of West El Dorado street to the point of beginning. Being a portion of lots one (1) to eight (8), both inclusive, in Block number thirty-five (35) of the State Tide Land Survey and a portion of Yuma street as closed by Order number 2599 of the Board of Supervisors of the said City and County of San Francisco.

2d. Commencing at a point on the northeasterly line of Seventh street, distant ten (10) feet measured at right angles northerly from the northerly line of Sixteenth street and running thence southeasterly and along the said northeasterly line of Seventh street to the northwesterly line of West El Dorado street; thence at right angles northeasterly and along the said northwesterly line of West El Dorado street to a point distant ten (10) feet measured at right angles northerly from the northerly line of Sixteenth street; thence westerly and parallel to the said northerly line of Sixteenth street to the point of beginning. Being a portion of Block Number thirty-four (34) of the State Tide Land Survey.

Section 2. The said lands hereinabove described are hereby dedicated to public use and declared to be open public streets, said streets to be known and designated by the names of the streets immediately adjoining, and of which streets they shall hereafter form a part.

Section 3. This Ordinance shall take effect on and after its passage.

In Board of Supervisors, San Francisco, October 2, 1905.

After having been published five successive days, according to law, taken up and passed by the following vote:

Ayes—Supervisors Bent, Booth, Bixton, Brandenstein, Comte, Connor, D'Ancona, Eggers, Hocks, Lunstedt, Payot, Rock.

Absent—Supervisors Alpers, Braunhart, Gallagher, McClellan, Rea, Sanderson.

CHAS. W. FAY, Clerk.

Approved, San Francisco, October 5, 1905.

E. E. SCHMITZ,

Mayor and ex-Officio President of the Board of Supervisors.

The deeds specified in the foregoing Ordinance are recorded in the Office of the County Recorder of the City and County of San Francisco in the following volumes, to-wit:

Liber 2119 of Deeds, page 279.
 Liber 2138 of Deeds, page 128.
 Liber 2139 of Deeds, page 109.
 Liber 2132 of Deeds, page 246.

LEASE OF "PRODUCE EXCHANGE" AND "MARKET PLACE" LOTS.

Section 9 of the franchise granted by Ordinance No. 1095, provides that the Southern Pacific Company will bid for the lease of the following described lands, whenever said lands are offered for lease by the City and County of San Francisco, to-wit:

LOT KNOWN AS PRODUCE EXCHANGE LOT.

Commencing at the southeast corner of Alameda and Minnesota streets, thence east on Alameda street 200 feet, south on Tennessee street 400 feet, west on El Dorado street 200 feet, north on Minnesota street 400 feet, to the place of beginning.

LOTS KNOWN AS MARKET PLACES.

Commencing at the east corner of Channel and Fifth streets, thence northeast on Channel street 382 6-12 feet, southeast on Hudson street 240 feet, southwest on Hooper street 382 6-12 feet, northwest on Fifth street 240 feet to the place of beginning; also,

Commencing at the east corner of Hooper and Fifth streets, thence northeast on Hooper street 382 6-12 feet, southeast on Hudson street 240 feet, southwest on Irwin street 382 6-12 feet, northwest on Fifth street 240 feet to the place of beginning.

The rentals for the said lands are not to be less than the following amounts: At least \$600 per month for the first five years, and thereafter an amount equal to 3 per cent per annum on the value of these properties, said valuation in case of disagreement to be determined by arbitration, the city to select one arbitrator, the company another and these two to select a third. The valuation so fixed to be final; provided, however, the rentals after the expiration of the first five years shall at no time be less than \$750 per month.

PROVIDING FOR LEASE.

In accordance with the terms of the franchise hereinabove expressed, and under authority granted it by law, the Board passed Ordinance No. 1672 providing for the lease of the "Produce Exchange" and "Market Place" lots, a copy of which Ordinance is as follows:

BILL NO. 1891, ORDINANCE NO. 1672.

Authorizing and providing for the lease of certain real property belonging to the City and County of San Francisco.

Be it ordained by the People of the City and County of San Francisco as follows:

Section 1. That those certain properties owned by the City and County of San Francisco known as Produce Exchange and Market Place, and also known as South Beach Block 381 and South Beach Blocks 53 and 54, be offered for lease for the term of twenty years.

Section 2. The Clerk of this Board is hereby directed to advertise said properties for lease at public auction as an entirety to the highest responsible bidder, at the highest monthly rent, and to publish such advertisement, stating the time and place of auction, in the Evening Post, a daily newspaper published in the City and County of San Francisco, for a period of at least three weeks before such auction shall be made, and in such advertisement the Clerk may add such further description of the premises as in his judgment may be necessary for their complete identification. Said notice shall also set forth that no bids will be considered for a rental of less than \$600 per month for the first five years, and thereafter an amount equal to 3 per cent per annum on the value of said properties, said valuation in case of disagreement to be determined by arbitration, the city to select one arbitrator, the tenant another and these two to select a third; the valuation so fixed to be final, provided, however, that the rental after the expiration of the first five years shall at no time be less than \$750 per month. All rentals to be payable monthly in advance.

Section 3. All bids shall be accompanied by a deposit of cash or of a certified check, to an amount equal to the first year's rent specified in such bid, which deposits shall be returned to all unsuccessful bidders immediately after the award, but the deposit of the successful bidder shall not be returned to him except upon his payment of the first month's rent and filing the bond hereinafter provided for.

Section 4. All bids shall be submitted to the Board of Supervisors of the City and County of San Francisco at its next regular meeting after such auction and an award of such lease shall then be made by said Board to the highest responsible bidder at the highest monthly rent.

Section 5. The successful bidder shall within ten days after such award, file with the Clerk of said Board of Supervisors a bond in the penal sum of ten thousand dollars to secure the performance of the obligations of such lease upon his part, in form satisfactory to the City and County Attorney, and with sureties approved by the City and County Auditor and Treasurer in the sum of ten thousand dollars. Thereupon the Mayor and said Clerk shall, in the name and under the corporate seal of the City and County of San Francisco, and as its act and deed, execute and deliver to the successful bidder a lease of said premises, with the usual covenants, for the term of twenty years and reserving the rents set forth in his bid, upon receiving from such successful bidder a counterpart of such lease duly executed and acknowledged by him. If such bidder shall fail, within the time above specified, to file such bond, the award to him shall become void, and the deposit made by him as aforesaid shall be forfeited to the City and County of San Francisco as liquidated damages.

Section 6. This Ordinance shall take effect immediately.

In Board of Supervisors, San Francisco, November 20, 1905.

After having been published five successive days, according to law, taken up and passed by the following vote:

Ayes—Supervisors Alpers, Bent, Booth, Boxton, Brandenstein, Comte, Connor, D'Ancona, Eggers, Hocks, Lunstedt, McClellan, Payot, Rea, Sanderson.

Absent—Supervisors Braunhart, Gallagher, Rock.

CHAS. W. FAY, Clerk.

Approved, San Francisco, November 29, 1905

E. E. SCHMITZ,

Mayor and ex-Officio President of the Board of Supervisors.

NOTICE CALLING FOR BIDS FOR LEASE.

Thereafter the Clerk of the Board of Supervisors, published for three weeks in the official newspaper, the following notice calling for bids for the lease of lots:

LEASE OF PROPERTY KNOWN AS "PRODUCE EXCHANGE" AND "MARKET PLACE."

Public notice is hereby given that, pursuant to the provisions of Subdivision 32, Section 1, Chapter II, of the Charter of the City and County of San Francisco, and of an Act of the Legislature of the State of California, entitled "An Act to amend an Act entitled 'An Act to vacate certain streets, alleys and market places in the City and County of San Francisco and to donate the same and other tide lands belonging to the State of California, to said City and County of San Francisco for commercial purposes, and other matters relating thereto,'" approved March thirtieth, eighteen hundred and seventy-two, approved March 11, 1874 (approved March 24, 1903); also to the provisions of Ordinance No. 1672 of the Board of Supervisors, approved November 29, 1905, that those certain properties owned by the City and County of San Francisco, known as "Produce Exchange" and "Market Place," and also known as South Beach Block No. 381 and South Beach Blocks Nos. 53 and 54, shall be leased as an entirety for the term of twenty (20) years to the highest responsible bidder, at the highest monthly rent, at public auction held in the chambers of the Board of Supervisors, second floor, City Hall, on Tuesday, December 26, 1905, at the hour of 3 p. m.

Said auction shall be conducted by the Mayor of the City and County of San Francisco and ex-officio President of the Board of Supervisors of said City and County, in the manner following:

Sealed bids shall be presented in open session of the Board of Supervisors on said 26th day of December, 1905, between the hours of 2:30 p. m. and 3 p. m., and said bids shall be opened by the presiding officer at the hour of 3 p. m. or thereafter, and shall be read aloud by the Clerk.

The presiding officer shall thereupon announce that any competing bidder filing a sealed bid may raise the bid for said lease to a sum greater than the highest sealed bid received therefor, and that said bids so made may be raised by any other competing bidder filing a sealed bid, and said competitive bidding shall be thus carried on by increasing the amounts over the preceding bids until said lease is finally struck off and sold.

The presiding officer shall thereupon submit said bids to the Board of Supervisors, and an award of lease shall then be made by said Board to the highest responsible bidder at the highest monthly rent.

No bids shall be considered for a rental of less than six hundred dollars (\$600.00) per month for the first five (5) years, and thereafter an amount equal to three (3) per centum per annum on the value of said properties, said valuation in case of disagreement to be determined by arbitration, the city to select one arbitrator, the tenant another and these two to select a third, the value so fixed to be final; provided, however, that the rental after the expiration of the first five (5) years shall at no time be less than seven hundred and fifty dollars (\$750.00) per month. All rentals to be paid monthly in advance.

All bids shall be accompanied by a deposit of cash or by a certified check made payable to Chas. W. Fay, Clerk of the Board of Supervisors, to an amount equal to the first year's rent specified in such bid, which deposit or certified check, as the case may be, shall be returned to all unsuccessful bidders immediately after the award, but the deposit or certified check of the successful bidder shall not be returned to him except upon his payment of the first month's rent and filing the bond hereinafter provided for.

The successful bidder shall within ten (10) days after such award file with the Clerk of the Board of Supervisors a bond in the penal sum of ten thousand dollars (\$10,000.00) to secure the performance of the obligations of such lease upon his part, in form satisfactory to the City Attorney, and with sureties approved by the Mayor, the Auditor and the Treasurer in the sum of ten thousand dollars (\$10,000.00).

Thereupon the Mayor and said Clerk shall, in the name and under the corporate seal of the City and County of San Francisco, and as its act and deed, execute and deliver to the successful bidder a lease of said premises, with the usual covenants, for the term of twenty (20) years, and reserving the rents set forth in his bid, upon receiving from such successful bidder a counterpart of such lease duly executed and acknowledged by him.

If such bidder shall fail, within the time above specified, to file such bond the award to him shall become void and the deposit made by him as aforesaid shall be forfeited to the City and County of San Francisco as liquidated damages.

The person, company or corporation to whom this lease is awarded shall pay the cost of advertising this notice, and the cost of advertising the ordinance or resolution providing for the lease and awarding said lease.

By order of the Board of Supervisors of the City and County of San Francisco.
CHAS. W. FAY, Clerk.

RECEPTION OF PROPOSALS.

On December 26, 1905, a proposal from the Southern Pacific Company to lease lots was received and considered, as is shown by the following excerpt from the Journal of Proceedings of the Board of Supervisors of that date:

LEASE OF PUBLIC PROPERTY KNOWN AS "PRODUCE EXCHANGE" AND "MARKET PLACE."

PROPOSAL.

A proposal to lease South Beach Block No. 381 and South Beach Blocks Nos. 53 and 54, commonly known as "Produce Exchange" and "Market Place," in response to notice published in accordance with law, was received, duly opened and read, being as follows:

To the Honorable, the Board of Supervisors of the City and County of San Francisco.

Gentlemen: Pursuant to notice given by order of your Honorable body, by advertisement in the Evening Post, a newspaper published in the City and County of San Francisco, for the presentation of sealed bids, in your open session to be held on the 26th day of December, 1905, for the lease of those certain properties owned by the City and County of San Francisco, known as "Produce Exchange" and "Market Place," and also known as South Beach Block No. 381 and South Beach Blocks Nos. 53 and 54, as an entirety, for the term of twenty (20) years;

The Southern Pacific Company hereby offers and bids as and for the rental of said properties as an entirety and for the term aforesaid, as follows:

For the first five (5) years of said term, the rental of Six Hundred Dollars (\$600) per month, and thereafter an amount equal to three (3) per centum per annum on the value of said property, said valuation in case of disagreement to be determined by arbitration, the City to select one arbitrator, the tenant to select another, and these two to select a third, the value so fixed to be final; provided, however, that the rental after the expiration of the first five (5) years shall at no time be less than seven hundred and fifty dollars (\$750) per month; all rentals to be paid monthly in advance.

And the undersigned herewith presents and deposits a certified check made payable to Chas. W. Fay, Clerk of your Honorable Board, to an amount equal to the first year's rent hereinbefore specified, to-wit, the sum of Seven Thousand Two Hundred Dollars (\$7,200), to be disposed of as set forth in the advertisement of bids hereinbefore referred to.

SOUTHERN PACIFIC COMPANY,
By N. T. SMITH, Treasurer.

Attest:
C. B. SEGER, Assistant Secretary.

PUBLIC AUCTION.

The Chair announced that as the Southern Pacific Company was the best and only bidder under the conditions imposed in the notice inviting bids, that said lease was struck off and sold to said bidder, and thereupon submitted said bid to the Board of Supervisors for approval.

MOTION.

Supervisor Connor moved that the bid be accepted and the lease awarded to the Southern Pacific Company.
So ordered.

AWARD OF LEASE.

At this meeting Supervisor Connor introduced a resolution awarding said lease to the Southern Pacific Company, which was, on his motion, adopted, a copy of said resolution being as follows:

RESOLUTION No. 6813. Whereas, Proposals were received in open session of this Board for the lease of certain public property known as "Produce Exchange" and "Market Place," and also known as South Beach Block No. 381 and South Beach Blocks Nos. 53 and 54, in accordance with the notice inviting bids thereon, and a public auction was duly had as provided by law; and,

WHEREAS, The Southern Pacific Company was the highest and best bidder therefor; therefore, be it

Resolved, That the said Southern Pacific Company, be and is hereby awarded the said lease for a period of twenty (20) years in accordance with its bid, as follows:

The sum of six hundred dollars (\$600.00) per month for the first five (5) years, and thereafter an amount equal to three (3) per centum per annum on the value of said properties, said valuation in case of disagreement to be determined by arbitration, the city to select one arbitrator, the tenant another, and these two to select a third, the value so fixed to be final; provided, however, that the rental after the expiration of the first five (5) years shall at no time be less than seven hundred and fifty dollars (\$750.00) per month. All rentals to be paid monthly in advance; and further

Resolved, That his Honor, the Mayor and the Clerk of this Board be and they are hereby authorized and requested to execute and enter into said lease on behalf of the City and County.

And the Clerk is hereby directed to advertise this Resolution in the Evening Post Newspaper.

In Board of Supervisors, San Francisco, December 26, 1905.

Adopted by the following vote:

Ayes—Supervisors Alpers, Bent, Booth, Boxton, Brandenstein, Connor, D'Ancona Eggers, Hocks, Lunstedt, McCellan, Payot, Rea, Rock, Sanderson.

Absent—Supervisors Brauhnart, Comte, Gallagher.

CHAS. W. FAY, Clerk.

Approved, San Francisco, December 30, 1905.

E. E. SCHMITZ,

Mayor and ex-officio President of the Board of Supervisors.

Thereafter, the Southern Pacific Company entered into lease with the City and County for the rental of said Blocks for twenty years from January 1, 1906, in accordance with the provisions of Resolution No. 6813, of the Board of Supervisors, having first filed on December 29, 1905, with the Clerk of said Board a bond in the sum of Ten Thousand Dollars (\$10,000) with the National Surety Company of New York as surety thereon, for the faithful performance of the terms of said lease, and on January 6, 1906, the Clerk of the Board of Supervisors, upon the written request and authorization of N. T. Smith, Treasurer of the Southern Pacific Company, deposited in the Treasury of the City and County, in payment of the rental of the Produce Exchange and Market Place Blocks for the year 1906, the proceeds of the certified check of Seven Thousand Two Hundred Dollars (\$7,200) accompanying the bid of said Company for the lease of said Blocks.

THIRD STREET BRIDGE.

One of the conditions imposed in Section 9, of Ordinance No. 1095, provides that the Southern Pacific Company shall contribute such sum of money as may be necessary for the construction of a bridge across Channel street, from Third street to Kentucky street in excess of Seventy Thousand Dollars (\$70,000), the sum thus to be contributed not to exceed Fifty-five Thousand Dollars (\$55,000).

This bridge was estimated to cost One Hundred and Twenty-five Thousand Dollars (\$125,000) when first contemplated, and the sum of Seventy Thousand Dollars (\$70,000) was to be contributed by the Atchison, Topeka and Santa Fe Railway in consideration of various franchises and privileges granted by the Board of Supervisors.

During the consideration of the Bay Shore Franchise of the Southern Pacific Company, said Company offered in lieu of constructing a viaduct extending across Brannan and Fifth streets, over and across its property, from Brannan and Fifth streets to a point near the intersection of Sixteenth and Kentucky streets, as recommended by the City Engineer, the Southern Pacific Company to bear three-fourths of the cost thereof and the City and County one-fourth, to contribute the sum of Fifty-five Thousand (\$55,000) dollars toward construction of the Third street bridge, designed to relieve the congestion in that locality.

This offer was accepted and incorporated as a condition of the franchise as above noted.

The work of construction of the bridge was commenced in April, 1904, and will be completed in February, 1906.

The total cost, due to changes in the original plans, is estimated to be One Hundred and Sixty-three Thousand Dollars (\$163,000) of which the Southern Pacific Company pays Fifty-five Thousand Dollars (\$55,000), as agreed, and the Atchison, Topeka and Santa Fe Company the remainder.

Section 2, of Ordinance 1095, the main franchise provided that viaducts or bridges are to be constructed over the track system on the easterly side of Kentucky street north of 17th street, on the northerly side of 16th street over the track system crossing 16th street between Sixth and Kentucky streets and to be connected with the Kentucky street bridge and also an additional or third approach beginning at some point on the westerly line of Illinois street northerly from 16th street and such additional bridges or viaducts upon the order of the Board of Supervisors over any track across Fourth street South of Channel street or across Sixteenth street at or near 7th street and at any time after ten years a bridge or viaduct either along Visitacion avenue or Sunnydale avenue near Hart street.

Burnham Plans

BURNHAM PLANS FOR THE IMPROVEMENT AND ADORNMENT OF SAN FRANCISCO.

On September 29, 1905, the Board of Supervisors held a special meeting for the purpose of receiving from the Association for the Improvement and Adornment of San Francisco, the plans for improving and adorning this city, prepared under the direction of Mr. D. H. Burnham, of Chicago, the eminent architect who had planned the newer cities of Washington, D. C., and Cleveland, Ohio.

His Honor Mayor E. E. Schmitz presided.

The following proceedings were had:

PRESENTATION OF PLANS.

Mr. William Greer Harrison, representing the Hon. J. D. Phelan, President of the association for the Adornment and Improvement of San Francisco, was introduced, and presented the Burnham plans for the adornment and improvement of San Francisco, which were spread on exhibition in the chambers of the Board.

REMARKS—WILLIAM GREER HARRISON.

In presenting the plans, Mr. Harrison referred to the absence of Mr. Phelan from the City, and expressed the regret of that gentleman over his inability to be present on the occasion of the presentation. Continuing, Mr. Harrison said in part:

"The heart and purse of Mr. Phelan are in the work, and upon his return he will take it up with energy and enthusiasm.

"When Mr. D. H. Burnham visited the City at the invitation of Mr. Phelan and was taken up to Twin Peaks he expressed astonishment at the beautiful vista spread before him, and said that San Francisco with its wonderful natural advantages could within twenty or thirty years be made the most beautiful city in the world. This was the initiation of the work of the past year so ably performed by Mr. Burnham and by his chief executive, Mr. E. H. Bennett, and corps of assistants, the culmination of which was now spread before the audience. Asked concerning the charges he would make, Mr. Burnham replied that as far as he was personally concerned, his selection for the work was the highest honor that could have been conferred upon him, and he would under no circumstances consider the question of compensation; his services were given gratuitously in the hope to live to see the Greater San Francisco."

Adverting to the plans before him, Mr. Harrison said:

"The things to be first considered are the Park Panhandle and the outer boulevards around the City and the beautifying of the water front. When these are carried out the others will follow. The plans before you are the result of twelve months' of work on the part of a genius.

"The highest form of civilization is the beautiful—beauty of character and beauty of environment—and one is a complement of the other. Beauty of environment will make beauty of character. This is a City of hills, and we hope to make it more beautiful than Rome, the City of the Seven Hills.

"San Francisco is not likely to be a great manufacturing center, and therefore we should make it an attractive and a beautiful city.

"It is the duty of every person in San Francisco to aid in making San Francisco beautiful, so that people will visit it to see its beauty. Make it a city of pleasure and beauty. When manufacturing comes here some day it will be established outside of the City. The new San Francisco will be known throughout the world. Men and women will come here to see our architecture and appreciate the work of our literary men. The plans contemplate a number of schemes. The only way to carry them out is to have the assistance of the Board of Supervisors, the press and the association for the Improvement and Adornment of San Francisco. Happily this is a work every man in our community can take a part in. The laborer, the mechanic, the artist, the literary man and others can ably assist. Not until the laboring man digs the huge blocks from the ground to the surface can the artist change them into beauty. Every man in San Francisco should begin at once to assist, and feel it his duty to work for the improvement and adornment of the City."

In conclusion he said:

"On behalf of the Association for the Improvement and Adornment of San Francisco I present these plans to the City and County of San Francisco, and hope to see many of them put into execution."

REPLY OF HIS HONOR, THE MAYOR.

His Honor Mayor Eugene E. Schmitz thereupon replied as follows:

"Mr. Harrison, Members of the Board of Supervisors and Ladies and Gentlemen: It gives me the greatest pleasure on behalf of the City and County of San Francisco to accept these plans. Little did the pioneers fifty years ago realize when they laid out the City that San Francisco would be a city of one-half a million of inhabitants as it is today. All of us who are officers here and those as guests and the public of San Francisco will be interested in this great movement. I must pay a tribute to those who came before us and laid out the City of San Francisco. I cannot help but feel that the man who had that work in charge and laid out Market street had in view the growth of San Francisco. It has been my pleasure to visit Mr. Burnham on Twin Peaks, and it has been my pleasure to have him explain these plans, and the thing that impresses me the most is the enthusiasm that he created among those who were doing the work.

"In a letter that was received, he paid tribute to Mr. Bennett. He also paid tribute to the young man who is responsible for the plans here today, the plans that are presented to us today. If in fifty years a city can be built such as San Francisco stands today and with its population, I think it is no idle boast to say that in the course of the next twenty years San Francisco will carry out every one of the plans presented today and will stand before the world as a city of a million inhabitants. The seven hills of Rome will be as naught to the hills of San Francisco. And as one who first saw the light of day in this city, I am happy to say that anything that will be of benefit to San Francisco and for her welfare will have my hearty support. I cannot agree altogether with Mr. Harrison that San Francisco will not be a manufacturing city. I think she will be one of the greatest manufacturing cities in the United States, but while we are waiting I think we should make it as beautiful as possible. This work is simply the beginning, and we will need the assistance of the ladies present and the ladies of the Outdoor League, and let us all do everything in our power for the completion of the plans. They are to cost about fifty millions of dollars. While this seems a large sum, it is nothing compared with the results. The boulevard around the City is one that is very much needed, and the Panhandle from Market street to the Park is a very great improvement, and I heartily agree to the proposed improvements.

"On behalf of the people of San Francisco I thank you for these plans and the manner in which you gave them to the City. I believe in beginning the work as soon as possible and leaving it to those after us to bring it to completion."

REMARKS—SUPERVISOR A. A. D'ANCONA.

On behalf of the Board of Supervisors, Supervisor D'Ancona said in part:

"The people of San Francisco must appreciate these plans for the improvement and adornment of San Francisco. As we go about our daily business we are more apt to think of bringing dollars into our pockets than beautifying our City. It is said of a bird in cage that if it should escape it would pick out a certain block and make that its home. We are about the same—we remain in our home, we go to our office, we go to our club, and back to our home again. We think of our own family and our own relatives. This in itself is right, but we should have larger ideas. We think more of our own little habitation than of the City, the State and the earth, and it is well to have our minds jogged along from time to time and see to the improvements of the entire City and State. There can be no doubt that San Francisco is the metropolis of California. It is the commercial center of the entire State. We should appreciate our beautiful hills, our valleys, our sea and our harbor."

MOTION.

Supervisor D'Ancona: "I move that this Board accept the plans furnished by the Society for the Adornment and Improvement of San Francisco, and refer them to the Committee on Streets, Sewers and Parks for consideration and report."

His Honor the Mayor: "If there are no objections it will be so ordered. Hearing no objections, it is so ordered."

THE REPORT PRINTED.

The Board of Supervisors, in its annual budget for 1905-6, appropriated the sum of \$3,000 for the printing of the report of D. H. Burnham on the improvement and adornment of San Francisco. After advertising for bids for the printing of the same the contract therefor was awarded by Resolutions Nos. 6682 and 6869 of the Board of Supervisors to the Sunset Press, said contractor agreeing to furnish 2358 copies of said report for the sum of Three Thousand Dollars.

The Hall McAllister Statue

THE HALL McALLISTER STATUE.

The statue of Hall McAllister was unveiled April 15th, 1905, on the grounds at the eastern approach to the City Hall. It faces McAllister street at the intersection of City Hall avenue. The statue is of life size and is cast in bronze. It rests upon a granite pedestal eight feet high, upon which is the following inscription:

HALL McALLISTER,
LEADER OF THE CALIFORNIA BAR,
LEARNED, ELOQUENT, UNTIRING,
A FEARLESS ADVOCATE.
A COURTEOUS FOE.

Appropriate ceremonies attended the unveiling of the statue, and the event was witnessed by a thousand or more spectators.

Judge John Hunt, of the Superior Court, presided and gave the following brief account of the erection of the statue:

"Seventeen years ago Hall McAllister died. A year since a movement was begun to erect a statue to his memory. So great was the reputation that had survived the passage of years that more than one hundred and twenty-five laymen and lawyers came voluntarily forward and subscribed more than enough money for the needed purpose. The statue is entirely a California production. It is made of metals of this State. It was designed by R. I. Aitken, who was born in this State. It was cast in this State and the granite pedestal upon which it stands is from this State. The Board of Park Commissioners granted us this site upon which to place this statue because it was near the courts where the great lawyer won his triumphs, and also beside the street which bears his name."

D. M. Delmas, in a most eloquent address, reviewed the leading events in the life of Mr. McAllister, gave testimony as to his undisputed leadership of the California bar for a period of over thirty years. This position he had won and held by reason of his unselfish devotion to the cause in which he labored, to his unceasing toil and unswerving integrity. In concluding he said:

"Therefore it is that to the city in which his life was spent and in which his ashes repose, and to the State, we now dedicate, for time and eternity, this statue of Hall McAllister."

Financial Condition

FINANCIAL CONDITION OF THE CITY AND COUNTY OF SAN FRANCISCO, ON THE FIRST DAY OF OCTOBER, 1905.

The following statement was transmitted by direction of the Board of Supervisors to the State Controller, on October 6, 1905.

Funded debt, at 3½ per cent interest.....	\$4,244,600.00
Less sinking fund on hand.....	16,272.05
	\$4,228,327.95
Description and value of property owned by the City and County—	
Park reservations, public squares and improvements.....	\$13,575,000.00
Fire department lots and improvements, apparatus, furniture, etc.....	1,801,000.00
Police Department lots, improvements and furnishing.....	140,000.00
Fire Alarm and Police Telegraph, apparatus, and for underground system, etc.....	235,000.00
City Hall, Hall of Justice, County Jails, Hospitals, Almshouses, lots and improvements and furniture.....	7,510,000.00
Cemetery reservation.....	590,000.00
Sundry lots.....	275,000.00
Channel street lots from 9th to 18th street.....	110,000.00
School lots, improvements, libraries, furniture, etc.....	6,307,000.00
	\$30,548,000.00
Total.....	\$30,548,000.00
City and County and State Moneys—Cash on hand of City and County Treasurer—(City and County)—	
Interest accounts.....	\$131,883.70
Sinking funds.....	16,272.05
Miscellaneous funds for special purposes.....	4,070,942.51
	\$4,219,098.26
Total City and County.....	\$4,219,098.26
Cash in hands of City and County Treasurer (State).....	58,291.17
	\$4,277,389.43
Total.....	\$4,277,389.43
Valuation of property for City and County purposes for 1905-1906 (City and County)—	
Assessed valuation of real estate and improvements.....	\$401,966,150.00
Assessed value of personal property.....	122,258,406.00
	\$524,224,556.00
Total.....	\$524,224,556.00
Rate of taxation—	
For City and County purposes, on assessed valuation per \$100.....	1.164
For State purposes, on assessed valuation.....	.490
Amount of taxes levied—	
City and County purposes.....	6,101,973.84
State purposes.....	2,568,700.32
	\$8,670,674.16
Total amount of taxes.....	\$8,670,674.16
Remarks City and County valuation—	
Value of real estate.....	\$304,135,185.00
Value of improvements.....	97,830,965.00
Value of personal property (money and solvent credits).....	122,258,406.00
	\$524,224,556.00
Total.....	\$524,224,556.00
Value apportioned by the State Board of Equalization of assessments of franchise, roadbed, etc., of railways—	
Central Pacific Railway Company.....	\$49,455.00
Southern Pacific Railroad Company.....	110,400.00
Pullman Company.....	1,256.00
	\$161,111.00
Total.....	\$161,111.00
Amount of City and County revenue under levy made by the Board of Supervisors on an estimated valuation of \$510,000,000.00 for City and County purposes (\$1.164).....	5,936,400.00
Amount of revenue from assessable property, \$524,224,556.00 (exclusive of railroads assessed by the State Board of Equalization) from levy for City and County purposes (\$1.164).....	6,101,973.84
Estimated revenue from other sources than taxation for City and County purposes.....	1,830,000.00
Amount of revenue from assessable property, \$524,224,556.00 (exclusive of railroads assessed by the State Board of Equalization) from levy for State purposes (\$0.49).....	2,568,700.32
Amount of revenue from assessment of railroads by State Board of Equalization—	
For City and County.....	\$1,875.33
For State.....	789.44
	\$2,664.77
Total.....	\$2,664.77

Report of Stationery Department

OF THE BOARD OF SUPERVISORS

For the Fiscal Year 1904-1905.

San Francisco, October 14, 1905.

To the Honorable The Board of Supervisors,
of the City and County of San Francisco.

Gentlemen:—

Herewith I present report of the amount of stationery, printing, books, postage stamps, directories, rebinding and typewriters delivered to the various departments of the city government from the Stationery Department of the Board of Supervisors during the fiscal year 1904-1905.

Very respectfully,

CHAS. W. FAY, Clerk.

By JOHN F. FINN,

Assistant Clerk, Assigned to Stationery Department.

	Printing—Books and Stationery .	Stamps	Directories	Rebinding	Typewriters	Total
Alms House	89.74	59.00	5.00			153.74
Assessor	2,944.87	800.00	40.00			3,784.87
Auditor	2,314.77	124.60	10.00			2,449.37
Dept. of Public Health	1,822.30	395.00	15.00			2,232.30
Dept. of Public Works	3,381.38	520.00	30.00			3,931.38
City and Co. Hospital	1,016.19	60.00	10.00			1,086.19
City Attorney	782.03	75.00	5.00		90.00	952.03
Civil Service Com.	484.80	44.00	5.00			533.80
Bd. of Supervisors	2,781.86	148.00	10.00			2,939.86
Justice's Court	598.23	96.00	30.00			724.23
Coroner	382.63	15.00	5.00		90.00	492.63
County Clerk	2,569.35	68.60	20.00			2,657.95
Dept. of Electricity	687.72	5.00	5.00			697.72
District Attorney	560.48	40.00	10.00		60.75	671.23
Emergency Hospital	222.66	12.50	20.00		90.00	345.16
Fire Department	1,105.99	60.00	10.00		80.00	1,255.99
Law Library	87.74		5.00			92.74
Police Department	3,290.32	120.00	125.00			3,535.32
Recorder	1,754.92	136.00	10.00			1,900.92
Sheriff	698.12	140.00	35.00			873.12
Tax Collector	1,771.71	499.80	15.00	2,000.00		4,286.51
Treasurer	709.02	100.00	5.00			814.02
Sup. Court, 12 Depts.	952.24	221.50	60.00			1,233.74
Sec'y Superior Court	72.07	4.00				76.07
Grand Jury	215.06	31.00	5.00			251.06
Police Courts, 4 Depts.	90.09	25.00	15.00			130.09
Fire Marshal	8.54				89.25	97.79
Mayor	20.83		5.00			25.83
	31,415.66	3,800.00	510.00	2,000.00	500.00	38,225.66

STATIONERY DEPARTMENT

SPECIAL APPROPRIATIONS.

	Amount of Approp- riation	Amount of Ex- penditures	Amount of Appro- priation not Ex- pended
Stationery, printing and books, including postage stamps	\$31,500.00	\$31,497.21	2.79
City Directories	510.00	510.00	
Stationery and printing for Assessor, including postage stamps	4,000.00	3,744.87	255.13
Rebinding books	2,000.00	2,000.00	
Typewriters	500.00	500.00	
	\$38,510.00	\$38,252.08	
Amount of money remaining in funds July 1, 1905			257.92
Amount of stock on hand July 1, 1905			101.36
Amount of moneys remaining in funds and value of stock on hand			359.28

RECAPITULATION OF RECEIPTS AND DELIVERIES.

	Amount of Stock on Hand July 1, 1904	Received during Fiscal Year 1904-1905	Total Receipts	Amount Delivered	Amount of Stock on Hand July 1, 1905.
Stationery, books and printing	\$74.94	\$31,497.21	\$31,572.15	\$31,470.79	\$101.36
City Directories		510.00	510.00	510.00	
Stationery, printing, etc., for Assessor		3,744.87	3,744.87	3,744.87	
Rebinding books		2,000.00	2,000.00	2,000.00	
Typewriters		500.00	500.00	500.00	
		\$38,252.08	\$38,327.02	\$38,225.66	\$101.36

Very respectfully,

CHAS. W. FAY, Clerk,

By JOHN F. FINN,

Assistant Clerk, assigned to Stationery Department.

Approved: JAMES P. BOOTH,

FRED N. BENT,

W. W. SANDERSON,

Committee on Printing and Salaries.

