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FIRE DEPARTMENT.

Report for the Quarter and Year ending December 31, 1889.

HEADQUARTERS FIRE DEPARTMENT,
NOS. 157 AND 159 EAST SIXTY-SEVENTH STREET,
OFFICE BOARD OF COMMISSIONERS.
NEW YORK, March 15, 1890.

To the Hon. HUGH J. GRANT, Mayor of New York:

SIR—We have the honor to submit herewith the report of the operations and actions of this Department for the quarter ending December 31, 1889, and for the year ending on the same date.

Appointments of Fire Commissioners were made on May 2, 1889, as follows:

Commissioner Henry D. Purroy as Fire Commissioner, to succeed Commissioner Fitz John Porter, term expired.

S. Howland Robbins as Fire Commissioner, to succeed Commissioner Richard Croker, appointed City Chamberlain.

Anthony Eickhoff as Fire Commissioner, to succeed Henry D. Purroy, resigned.

Commissioner Eickhoff was elected Treasurer of the Board.

Appointment of Committees.

Commissioner Robbins was appointed Chairman of the Committee on Telegraph and Supplies. Commissioner Eickhoff was appointed Chairman of the Committee on Buildings and Apparatus. The President is ex-officio member of both committees.

Number of each Grade of Officers and Employees on December 31.

Headquarters—	
Commissioners	3
Secretary and Assistant Secretary	2
Medical Officers	3
Bookkeepers and Clerks	9
Typewriter and Stenographer	1
Janitor	1
Elevator Attendant	1
Watchmen	2
Machinist (Acting Engineer)	1
Stokers	3
Scrub Women	2

Bureau of Chief of Department—

In Active Service—Uniformed Force—

Chief of Department	1
Deputy Chiefs of Department	2
Chiefs of Battalion	12
Foremen	83
Assistant Foremen	90
Engineers of Steamers	136
Firemen { First Grade	565
{ Second Grade	85
{ Third Grade	28
678	
1,002	

Ununiformed Force—

Ununiformed Firemen (on probation)	25
Pilots, { Marine Engines {	4
Engineers, { 43 and 51 {	2
Stokers, {	6
37	

Total active service

Relieved from Service at Fires—Uniformed Force—

Chief of Battalion	1
Foremen	8
Assistant Foremen	5
Engineers of Steamers	6
Firemen	10
Firemen, First Grade	24
Private	1
55	
1,094	

Bureau of Inspector of Combustibles—

Inspector of Combustibles	1
Clerks	2
Surveyor	1
Oil Collectors	6
10	

Bureau of Fire Marshal—

Fire Marshal	1
Assistant to Fire Marshal	1
Clerks	3
5	

Bureau of Inspection of Buildings—

Superintendent of Buildings	1
Deputy Superintendent of Buildings	2
Clerks	23
Inspectors of Buildings	40
Machinists to Supervise Elevators	4
Messengers	3
Driver	1
74	

Attorney to the Department

Fire-alarm Telegraph—

Superintendent of Telegraph	1
Chief Operator	1
Operators	4
Assistant Operators	5
Clerk	1
Inspectors of Alarm Boxes	2
Batterymen and Assistant Batterymen	3
Foreman	1
Lineman	1
Instrument Maker	1
Machinist	1
27	

Repair Shops—

Superintendent of Repairs to Buildings	1
Foreman	1
Storekeeper	1
Clerks	2
Shop Engineer	1
Machinists	19
Machinists' Helpers	5
Boiler-maker	1
Blacksmiths	7
Blacksmiths' Helpers	4
Wheelwrights	6
Wheelwrights' Helper	1
Harness-makers	2
Hose Repairers	2
Painters	5
Watchmen	2
Drivers	5
Janitor	1
66	

Hospital Stables—

Stablemen	5
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Aggregate

Number of Changes by Resignation, Discharge, Death, Promotion, Appointment, etc., in each Grade.

GRADE.	LOSS BY										GAIN BY			Relieved From Service at Fires.
	Expiration of Term.	Resignation.	Discharge.	Dismissal.	Retirement.	Promotion.	Death.	Dropped.	Appointment.	Total.	Appointment.	Promotion.	Total.	
Commissioners	1	1	..	..	..	..	..	..	1	3	3	..	3	..
Assistant Secretary	1	..	..	..	..	..	..	..	1	1	..	1	..
Clerks	4	..	..	..	..	..	..	..	4	1	2	3	..
Chief of Department	1	..	..	..	..	1	..	1	1	..
Assistant Chief of Department	1	..	..	..	1	..	..	..	..
Second Assistant Chief of Department	1	..	1	..	..	..	..
Deputy Chief of Department	1	1	2	..	..
Chief of Battalion	1	..	..	..	1	..	1	1	..
Foremen	1	..	..	..	1	..	6	6	2
Assistant Foremen	1	..	..	..	6	2	..	..	9	..	15	15	1
Engineers of Steamer	7	7	..
Firemen First Grade	7	..	2	..	19	6	..	..	34	..	40	40	2
“ Second “	2	..	41	1	..	..	44	..	83	83	..
“ Third “	3	..	2	..	86	1	..	..	92	11	..	11	..
Ununiformed Firemen	11	11	33	..	33	..	..
Oil Surveyor	1	..	..	1	..	..	..	..
Oil Collector	2	..	2	..	..
Superintendent of Buildings	1	..	..	..	..	..	..	..	1	..	1	1	..
First Deputy Superintendent of Buildings	1	..	..	..	1	..	1	1	..
Second Deputy Superintendent of Buildings	1	..	..	..	1	1	..	1	..
Inspectors of Buildings	3	..	3	..	..	1	..	..	7	2	..	2	..
Machinists to Supervise Elevators	1	..	..	1	1	..	1	..
Assistant Batterymen	1	..	1	..
Lineman	5	..	5	..
Instrument maker	1	..	1	..
Machinists	2	..	2	3	..	3	..
Blacksmiths' Helpers	1	..	..	..	..	..	..	1	2	..	2	..
Wheelwright	1	..	1	..
Painters	1	..	..	..	1	..	..	..	2	1	..	1	..
Harness-makers' Helper	1	..	..	1	..	..	..	..
Foreman of Stablemen	1	..	..	1	..	..	..	..
Elevator Attendant	1	..	..	..	1	1	..	1	..
Stokers	1	..	..	..	..	1	..	..	2	2	..	2	..
Total	1	23	1	9	1	159	16	3	12	225	73	158	231	5

Net aggregate gain since last report

6

Appropriations (including Transfers) and Expenditures.

TITLE OF APPROPRIATION.	AMOUNT OF APPROPRIATION.	EXPENDITURES.	BALANCE
For Salaries—			
Headquarters	\$50,400 50	\$50,007 13	\$393 37
Bureau Chief of Department.....	1,345,100 00	1,338,269 38	6,830 62
“ Inspector of Combustibles.....	13,200 00	12,779 16	420 84
“ Fire Marshal	7,400 00	7,400 00	.....
“ Inspection of Buildings	100,800 00	99,419 13	1,380 87
Attorney.....	4,000 00	4,000 00	.....
Fire-alarm Telegraph	26,945 00	26,514 99	430 01
Repair Shops.....	61,878 00	61,866 40	11 60
Hospital Stables.....	5,150 00	5,069 36	80 64
Total salaries.....	\$1,614,873 50	\$1,605,325 55	\$9,547 95
For Apparatus, Supplies, etc.....	\$335,000 00	\$335,000 00	.....
For new houses for Hook and Ladder Co. No. 14 and in West Eighty-third street.....	69,750 85	69,750 85	.....
For placing fire-alarm electrical conductors under- ground.....	52,500 00	52,341 82	\$158 18
For New Floating Engine.....	63,918 65	61,418 65	2,500 00
Total apparatus, etc.....	\$521,169 50	\$518,511 32	\$2,658 18
Grand total.....	\$2,136,043 00	\$2,123,836 87	\$12,206 13

Of the expenditures, the following amounts were under contracts, awarded upon proposals advertised for as provided by law :

Apparatus, Supplies, etc.—

For forage	\$32,495 00
For fuel	21,835 00
For new fire-engines	12,375 00
For new hose	30,000 00
For new hose wagons.....	1,200 00
For repairing fire-engines.....	9,400 00
For repairing fire-boat “Zophar Mills”.....	8,000 00
For chartering steamboat “John Fuller”.....	11,700 00
For new tenders.....	3,460 00
Total	\$130,465 00
For placing fire-alarm telegraph electrical conductors underground.....	39,101 15
For new houses in West Thirty-sixth street, West One Hundred and Thirteenth street and Hospital and Training Stables.....	66,387 00
For new floating engine.....	58,450 00
Grand total.....	\$294,403 15

Amount of Bills and Pay-rolls Audited.

Bills for 1886.....	\$257 50
“ 1887.....	644 39
“ 1888.....	124,933 04
“ 1889.....	347,725 53
Total bills.....	\$473,500 46
Pay-rolls for 1889.....	1,605,325 55
Total bills and pay-rolls.....	\$2,078,886 01

BUREAU CHIEF OF DEPARTMENT.

Company Organization, Complement of Officers and Men, Kind and Number of Apparatus, and Number of Horses, Number of Alarms Responded to, etc.

COMPANY.		No. of Officers and Men.	APPARATUS.				Total No. of Horses.	No. of Alarms Responded to.	No. of Fires Performed Duty at.	REMARKS.
			No. of Steam Fire Engines. (2 horses each.)	No. of Four-wheel Tenders. (2 horses each.)	No. of Two-wheel Tenders. (1 horse each.)	No. of Hook and Ladder Trucks (3 horses each.)				
Engine 1.....	12	1	1	..	..	5	158	60	Engine, 3 horses.
“ 2.....	12	1	..	1	..	3	92	40		
“ 3.....	12	1	1	..	..	4	85	35	
“ 4.....	12	1	..	1	..	3	117	56		
“ 5.....	20	2	1	1	..	7	116	42	Double company.	
“ 6.....	12	1	..	1	..	3	92	39		
“ 7.....	16	1	..	1	*1	5	133	41	* Water Tower, 2 horses.	
“ 8.....	12	1	1	..	..	4	115	30	
“ 9.....	12	1	1	..	..	4	145	51	Engine, 3 horses.
“ 10.....	12	1	1	..	..	4	48	17	
“ 11.....	12	1	1	..	..	4	134	41	
“ 12.....	20	2	..	2	..	6	146	53	Double company.	
“ 13.....	20	2	..	2	..	6	142	42	Double company.	
“ 14.....	12	1	1	..	..	5	149	81	Engine, 3 horses.
“ 15.....	12	1	1	..	..	4	163	41	
“ 16.....	20	2	1	1	..	7	120	44	Double company.	
“ 17.....	12	1	..	1	..	3	213	82		
“ 18.....	20	2	1	1	..	7	146	41	Double company.	
“ 19.....	12	1	1	..	..	4	117	40	
“ 20.....	12	1	..	1	..	3	153	39		
“ 21.....	12	1	1	..	..	4	113	43	
“ 22.....	12	1	1	..	..	4	104	26	
“ 23.....	12	1	1	..	..	4	122	48	
“ 24.....	12	1	1	..	..	4	102	38	
“ 25.....	12	1	..	1	..	3	114	28		

COMPANY.	No. of Officers and Men.	APPARATUS.				Total No. of Horses.	No. of Alarms Responded to.	No. of Fires Performed Duty at.	REMARKS.
		No. of Steam Fire Engines. (2 horses each.)	No. of Four-wheel Tenders. (2 horses each.)	No. of Two-wheel Tenders. (1 horse each.)	No. of Hook and Ladder Trucks. (3 horses each.)				
Engine 26.....	20	2	I	I	..	7	192	68	Double company.
“ 27.....	20	2	I	I	..	7	85	42	Double company.
“ 28.....	12	I	I	..	..	4	99	17	
“ 29.....	12	I	..	I	..	3	96	46	
“ 30.....	12	I	I	..	..	4	112	29	
“ 31.....	20	2	I	I	..	5	121	44	Double company.
“ 32.....	12	I	..	I	..	3	83	45	
“ 33.....	20	2	..	2	..	6	140	56	Double company.
“ 34.....	12	I	I	..	..	4	115	40	
“ 35.....	12	I	I	..	..	4	131	42	
“ 36.....	12	I	I	..	..	4	108	31	
“ 37.....	14	I	I	..	..	4	57	17	{ Training Stable in connection with company.
“ 38.....	12	I	I	..	I	6	37	23	{ One Hose Wagon; Hook and Ladder Truck, 2 horses.
“ 39.....	12	I	I	..	..	4	135	35	
“ 40.....	12	I	I	..	..	4	62	16	
“ 41.....	12	I	..	I	..	3	23	14	
“ 42.....	8	I	I	..	..	4	26	5	
“ 43.....	12	..	..	..	..	..	81	10	Floating Engine.
“ 44.....	12	I	I	..	..	4	129	42	
“ 45.....	8	I	I	..	..	4	4	3	
“ 46.....	8	I	I	..	..	4	14	8	
“ 47.....	12	I	I	..	I	6	35	13	Hook and Ladder Truck, 2 horses.
“ 48.....	12	I	I	..	I	6	12	3	Hook and Ladder Truck, 2 horses.
“ 49.....	12	I	..	I	I	5	3	2	Hook and Ladder Truck, 2 horses.
“ 50.....	12	I	I	..	I	6	30	14	Hook and Ladder Truck, 2 horses.
“ 51.....	12	..	..	..	..	..	91	13	Floating Engine.
“ 52.....	12	I	I	..	I	6	5	1	Hook and Ladder Truck, 2 horses.
“ 53.....	12	I	I	..	..	4	109	35	
“ 54.....	12	I	I	..	..	4	22	5	
“ 55.....	12	I	..	I	..	3	67	27	
“ 56.....	12	I	I	..	..	4	12	7	Organized July 13.
Hook and Ladder 1..	12	..	..	..	I	3	197	140	
“ 2..	12	..	..	..	I	3	260	90	
“ 3..	12	..	..	..	†2	5	206	121	† Water Tower, 2 horses.
“ 4..	12	..	..	..	I	3	258	155	
“ 5..	18	..	..	..	2	4	174	96	{ Hook and Ladder Trucks, 2 horses each, double company.
“ 6..	12	..	..	..	1	3	214	124	
“ 7..	12	..	..	..	I	2	207	112	2 horses.
“ 8..	12	..	..	..	I	3	176	93	
“ 9..	12	..	..	..	I	3	189	103	
“ 10..	12	..	..	..	I	3	154	122	
“ 11..	12	..	..	..	I	2	167	95	
“ 12..	12	..	..	..	I	3	253	138	
“ 13..	12	..	..	..	I	2	179	90	2 horses.
“ 14..	12	..	..	..	I	3	146	93	
“ 15..	12	..	..	..	I	2	83	59	2 horses.
“ 16..	12	..	..	..	I	3	175	86	
“ 17..	12	..	..	..	I	2	72	32	2 horses.
“ 18..	12	..	..	..	I	3	236	143	
“ 19..	8	..	†1	..	I	4	20	17	{ †1 Hose Wagon and Hook and Ladder Truck, 2 horses each.
“ 20..	12	..	..	..	I	2	92	50	Organized April 1, 2 horses.
Total.....	980	63	838	24	1127	299			

† Includes 1 Hose Wagon. † Includes 2 Water Towers.

Average number of alarms responded to by each company, 116; average number of fires at which each company performed duty, 50.

The companies are organized into twelve battalions, consisting of from five to nine companies each and commanded by a Chief of Battalion; a Deputy Chief of Department commands the First, Second, Third, Fourth, Fifth and Sixth Battalions, and a Deputy Chief of Department commands the Seventh, Eighth, Ninth, Tenth, Eleventh and Twelfth Battalions; the entire force is commanded by the Chief of Department.

Additions and Amendments, etc., to the Rules and Regulations.

MAY 29.

(General Orders No. 4.)

I.—Deputy Chief of Department John McCabe is assigned to the district lying on and north of Twenty-third street, with headquarters at No. 165 West Twenty-ninth street, and will command the Seventh, Eighth, Ninth, Tenth, Eleventh and Twelfth Battalions, and have entire control of the working force at fires within that district, except when the Chief of Department is present.

II.—Deputy Chief of Department Francis J. Reilly is assigned to the district lying south of Twenty-third street, with headquarters at Nos. 155 and 157 Mercer street, and will command the First, Second, Third, Fourth, Fifth and Sixth Battalions, and have entire control of the working forces at fires within that district, except when the Chief of Department is present.

III.—At the expiration of a period of three months, commencing on receipt of this order, they will each exchange commands and headquarters, without transfer of public property of any kind, and so continuing each quarter, each one performing the duty of the other while so located.

IV.—Executive duties, during the absence of the Chief of Department, will be performed by the Deputy Chief of Department whose headquarters are at Nos. 155 and 157 Mercer street at the time of absence, of which he will receive notice, but he will be responsible only for his own district, unless the associate Deputy Chief of Department and the Chief of Department are both absent, in which case he will be responsible for the entire force.

V.—The duties of instructor at the School of Instruction will be performed by the Deputy Chief of Department whose headquarters are at No. 165 West Twenty-ninth street at the time instruction is in progress.

VI.—During the existence of fires requiring the presence of the Chief Officers, the remaining Deputy will, in addition to his own district, respond to second and third alarms for fires within the district made vacant by the absence of the Chief Officers at fires elsewhere.

VII.—It is made the duty of the Deputy Chiefs of Department to make occasional inspections of the battalions in their respective districts, in company with the Chief of Battalion; inspect,

stamp and condemn uniforms, make a thorough inspection of quarters, apparatus, horses, tools, etc., and see that all laws, ordinances and rules and regulations relating to the sale and storage of combustibles, explosives, fireworks, etc., obstructions to fire-hydrants, fire-escapes, aisles in theatres, etc., are strictly complied with, and such other duties as are now or may hereafter be prescribed.

VIII.—The Deputy Chief of Department assigned to the first or lower district will perform duty on the first alarm at all stations on and within the following boundary: Worth street, West Broadway, South Fifth avenue, Fifth avenue, Fourteenth street, Third avenue, Bowery, Canal, Walker and Centre streets. On second and third alarms all south of Twenty-third street.

The Deputy Chief of Department assigned to the second or upper district will perform duty on the first alarm at all stations on and within the following boundary: Twenty-third street, Eighth avenue, Forty-second street and Fourth avenue, and elsewhere at his discretion. On second and third alarms all north of Twenty-third street.

JUNE 4.

(General Orders No. 5.)

I.—Hereafter three fuel wagons will respond at each third alarm of fire, and Company Commanders are hereby directed to instruct members of their commands, acting as drivers, to proceed immediately and without orders, on their arrival at fires, for the nearest fuel wagon (unless otherwise ordered) in the following manner: The first company due on first alarm will procure the nearest wagon, the first company on second alarm the next nearest, and the first company on third alarm the next nearest; except between Twenty-third and Seventy-second streets (where the fuel wagon from the quarters of Hook and Ladder Company No. 2 responds) and at stations within that boundary the companies due first on third alarm will be relieved from that duty, unless otherwise ordered.

II.—The fuel depots, for convenience, will be renumbered as follows, and the Foreman in charge of Repair Shops will cause the wagons to be marked according to the new numbers:

- Fuel Depot No. 1, at No. 28 Beaver street, capacity 40 tons. Coal and wagon on first floor.
- No. 2, at No. 5 Duane street, capacity 45 tons. Coal and wagon on first floor.
- No. 3, at No. 304 Washington street, capacity 25 tons. Coal and wagon on first floor.
- No. 4, at No. 180 Clinton street, capacity 20 tons. Coal and wagon on first floor.
- No. 5, at No. 199 Chrystie street, capacity 100 tons. Coal and two wagons on first floor.
- No. 6, at No. 253 Spring street (quarters Engine Company No. 30), capacity 10 tons. Coal on first floor, no wagon.
- No. 7, at No. 78 Morton street (quarters Engine Company No. 24), capacity 25 tons. Coal and wagon on first floor of rear building.
- No. 8, at No. 132 West Tenth street (quarters Engine Company No. 18), capacity 10 tons. Coal in cellar, no wagon.
- No. 9, at No. 106 East Thirteenth street (quarters Hook and Ladder Company No. 3), capacity 18 tons. Coal in cellar, wagon at quarters Engine Company No. 28, No. 604 East Eleventh street.
- No. 10, at No. 417 West Seventeenth street (quarters Engine Company No. 3), capacity 15 tons. Coal in cellar, wagon on first floor.
- No. 11, at No. 355 West Twenty-fifth street (quarters Engine Company No. 19), capacity 20 tons. Coal in cellar, wagon on first floor.
- No. 12, at No. 160 East Thirty-third street (Supply Depot), capacity 12 tons. Coal and wagon on first floor.
- No. 13, at No. 530 West Forty-third street (quarters Engine Company No. 2), capacity 25 tons. Coal and wagon on first floor of rear building.
- No. 14, at No. 126 East Fiftieth street (quarters Hook and Ladder Company No. 2), capacity 15 tons. Coal and wagon on first floor. Wagon attends on second alarm all fires between Twenty-third and Seventy-second streets.
- No. 15, at No. 159 East Eighty-fifth street (quarters Engine Company No. 22), capacity 15 tons. Coal and wagon on first floor.
- No. 16, at No. 175 East One Hundred and Fourth street (quarters Engine Company No. 53), capacity 6 tons. Coal in cellar and wagon on first floor.
- No. 17, at No. 209 East One Hundred and Twenty-second street (quarters Engine Company No. 35), capacity 8 tons. Coal in yard in rear, wagon at No. 223 East One Hundred and Nineteenth street.
- No. 18, at One Hundred and Forty-third street, near Third avenue (quarters Hook and Ladder Company No. 17), capacity 10 tons. Coal in cellar and wagon on first floor.
- No. 19, at One Hundred and Sixty-sixth street, between Washington and Third avenues (quarters Engine Company No. 50), capacity 10 tons. Coal in cellar, no wagon.

III.—Members of the Department using fuel wagons must return them to the depots, and leave them ready for immediate use thereafter. They will also report any accident or injury occurring to the wagons to their commanding officers, and he to the officer responsible for the wagon, without delay.

IV.—Company commanders will forward special reports of the effect of inferior fuel when used at fires, on the steaming of the boilers, and state from what depot it was taken.

JUNE 5.

(General Orders No. 6.)

I.—Hereafter, when notified, Chiefs of Battalions will cause a test to be made by companies of such hose in use by them as they may receive notice to test, in the following manner:

The test will be made in front of company quarters, at pressure, and all hose standing the designated pressure will be retained and continued in use. The Captain in charge of Repair Shops will be notified, in writing, of the number of lengths of hose burst at and under the designated pressure, and he will collect and give a receipt for all such, which will answer as a voucher for the hose taken.

Only one company at a time in each battalion will be permitted to test their hose, and Chiefs of adjoining battalions will see that companies adjoining each other do not test at the same time.

II.—Companies must not consider themselves out of service while testing, and will not so report.

JUNE 6.

(General Orders No. 7.)

I.—Assistant Foreman John Leonard of Engine Company No. 36, and Engineer of Steamer James Rogers of Engine Company No. 24, are detailed as Supervisory Engineers, and will attend all fires for which third alarms are sent out, as follows: Assistant Foreman Leonard for the district on and north of Fifty-ninth street, and Engineer Rogers for the district south of Fifty-ninth street. They will supervise the working of all engines at fires, and give the Engineers in charge of engines such instructions as they may deem necessary for the proper handling, as well as for the best delivery of water.

They will report to the Commanding Officer at fires for such special instructions as he may desire to issue. On the following day they will report in writing any neglect on the part of Engineers, defects in pumps, machinery or boilers, defective water supply or inferior fuel.

Cannel coal of the purest grade will not clinker on grate bars, when used in furnace of boiler, and they will make special mention in their reports of all cases where the coal is found to clinker when used at fires, stating to what extent and its effect on the steaming of the boiler.

JUNE 13.

(General Orders No. 8.)

I.—The following instructions, relative to the manner of using the sliding poles, will be strictly adhered to, and Company Commanders are directed to see that the officers and members comply with them, and thereby prevent accidents in the future.

II.—In descending, both hands will be used in firmly grasping the pole over the head. The legs will be folded around the pole in a secure manner, and the body will be permitted to descend only at a moderate rate of speed. On the feet reaching a distance within about four feet of the floor, a still slower rate of speed must be taken. The feet must be in a position to permit the ball of the foot to first strike the floor very lightly, and the weight of the body while making the descent must in all cases be held by the hands, aided by the legs around the pole.

Any violation of these rules will be considered a disobedience of orders, and will be so reported.

Hereafter the above rule will be made a part of the instruction, and all probationary candidates and others, will be instructed as the above rules prescribe.

JUNE 21.

(General Orders No. 10.)

I.—The Board of Commissioners having organized Engine Company No. 56, located it at No. 120 West Eighty-third street, and assigned it to the Tenth Battalion, to take effect at 8 o'clock A. M., on the 13th proximo, the following additions and alterations to General Orders No. 17, series of 1887, from this office, are made, to take effect at that time, and the orders on file will be altered to read accordingly:

Engine Company No. 56 is assigned to duty on the first alarm, at Stations 572, 581, 582, 594, 612, 613, 614, 615, 616, 621, 622, 623, 624, 631, 632, 641, 642, 643, 651, 652, 653, 654, 655, 661, 662, 663, 671, 672, 673, 674, 681, 682, 683, 684, 712, 713, 714, 715, 721, 722 and 731.

On the second alarm at Stations 571, 583, 584, 596, 625, 633, 644, 645, 646, 655, 656, 657, 658, 659, 664, 665, 667, 668, 669, 675, 676, 677, 678, 679, 685, 686, 688, 698, 716, 717, 719, 723, 724, 725, 726, 727, 728, 732, 733, 734, 741, 742, 743, 746, 747, 751, 752, 753, 761, 762, 763, 764, 781, 782, 783, 784 and 785.

On the third alarm at Stations 585, 586, 587, 588, 617, 619, 626, 627, 628, 629, 634, 635, 636, 637, 638, 639, 647, 648, 649, 699, 735, 736, 737, 738, 744, 745, 748, 749, 754, 755, 756, 757, 758,

759, 765, 766, 767, 768, 786, 787, 788, 789, 812, 813, 814, 815, 816, 817, 818, 819, 821, 822, 823, 824, 825, 826, 827, 831, 832, 833, 834, 835, 836, 837, 841, 842, 843, 844, 845, 846, 847, 851, 852, 853, 854, 855, 856, 857, 858, 859, 861, 862, 863, 864, 865, 866, 867, 868, 871, 872, 873, 874, 875, 876, 877, 881, 882, 883, 884, 885, 886, 887, 889, 912, 913, 914, 915, 916, 917, 918 and 919.

And to Special Building Signals 188, 247, 257, 352, 537 and 542.

II.—Engine Company No. 1 is relieved from duty on the third alarm at Station 571.

Engine Company No. 2 is relieved from duty on the first alarm, and will perform duty on the second alarm, at Stations 612, 613 and 614.

Relieved from duty on the second alarm, and will perform duty on the third alarm, at Stations 624, 641, 642 and 651.

Relieved from duty on the third alarm at Stations 643 and 653.

Engine Company No. 8 is relieved from duty on the second alarm, and will perform duty on the third alarm, at Stations 571, 582, 613, 615, 625, 633, 656, 665, 667, 668 and 669.

Relieved from duty on the third alarm at Stations 594, 725, 726, 738, 747, 748, 749, 766, 767 and 768.

Engine Company No. 19 is relieved from duty on the third alarm at Stations 614 and 616.

Engine Company No. 22 is relieved from duty on the first alarm, and will perform duty on the second alarm, at Stations 643, 651, 652, 653, 661, 662, 663 and 671.

Relieved from duty on the second alarm, and will perform duty on the third alarm, at Stations 583, 712, 714, 715, 732, 743, 761, 762, 763 and 764.

Relieved from duty on the third alarm at Stations 613, 623, 818, 819, 826, 827, 828, 837, 841, 842, 843, 844, 845, 846, 847, 851, 852, 853, 854, 855, 856, 857, 858, 859, 861, 862, 863, 864, 865, 866, 867, 868, 871, 872, 873, 874, 875, 876, 877, 881, 882, 883, 884, 885, 886, 887, 889, 912, 913, 914, 915, 916, 917, 918 and 919.

Engine Company No. 23 is relieved from duty on the first alarm, and will perform duty on the second alarm, at Stations 641 and 642.

Relieved from duty on the second alarm, and will perform duty on the third alarm, at Stations 625, 655, 682 and 698.

Relieved from duty on the third alarm at Stations 596, 644, 645, 646, 647, 648, 649, 656, 657, 658, 659, 664, 665, 667, 668, 669, 675, 677, 679, 685, 687 and 716.

And from Special Building Signal 537.

Engine Company No. 26 is relieved from duty on the second alarm, and will perform duty on the third alarm, at Stations 581 and 623.

Relieved from duty on the third alarm at Stations 583, 584, 617 and 654.

Engine Company No. 34 is relieved from duty on the second alarm, and will perform duty on the third alarm, at Stations 572, 612 and 614.

Relieved from duty on the third alarm at Stations 621, 622, 631, 632, 641 and 642.

Engine Company No. 35 is relieved from duty on the second alarm, and will perform duty on the third alarm, at Stations 646 and 672.

Engine Company No. 36 is relieved from duty on the first alarm, and will perform duty on the second alarm, at Station 731.

Relieved from duty on the second alarm, and will perform duty on the third alarm, at Stations 664, 675, 677, 678, 679, 681, 683, 684, 688 and 713.

Relieved from duty on the third alarm at Station 655.

Engine Company No. 37 is relieved from duty on the first alarm, and will perform duty on the second alarm, at Stations 672 and 681.

Relieved from duty on the second alarm, and will perform duty on the third alarm, at Stations 661, 685, 686, 717, 719, 727 and 728.

Relieved from duty on the third alarm at Stations 651, 662 and 676.

Engine Company No. 38 is relieved from duty on the second alarm, and will perform duty on the third alarm, at Stations 699, 721, 723, 733, 734 and 746.

Relieved from duty on the third alarm at Stations 683, 715, 727, 728, 736, 737, 755, 756, 757, 758 and 759.

Engine Company No. 39 is relieved from duty on the first alarm, and will perform duty on the second alarm, at Station 616.

Relieved from duty on the second alarm, and will perform duty on the third alarm, at Stations 631, 632, 654 and 676.

Relieved from duty on the third alarm at Stations 652, 661, 671, 673, 674, 682, 684, 696, 754 and 765.

Engine Company No. 40 is relieved from duty on the first alarm, and will perform duty on the second alarm, at Station 654.

Relieved from duty on the second alarm, and will perform duty on the third alarm, at Stations 722, 731, 741, 742, 751, 752, 781, 782, 783, 784 and 785.

Relieved from duty on the third alarm at Stations 678, 686, 688, 689, 699, 717, 718, 719, 724, 733, 734, 735, 746, 764, 788, 789, 817, 821, 822, 823, 824 and 825.

Engine Company No. 44 is relieved from duty on the second alarm, and will perform duty on the third alarm, at Stations 594, 621, 622, 663, 671, 673, 674, 716, 724, 725, 726 and 747.

Relieved from duty on the third alarm at Stations 581, 624, 681, 712, 713, 714, 721, 722, 723, 731, 732, 733, 741, 742, 743, 744, 745, 751, 752, 753, 761, 762, 763, 781, 782, 783, 784, 785, 786 and 787.

Engine Company No. 47 is relieved from duty on the first alarm, and will perform duty on the second alarm, at Stations 621, 622, 624, 631 and 632.

Relieved from duty on the second alarm, and will perform duty on the third alarm, at Stations 596, 616, 644, 645, 657, 658 and 659.

Relieved from duty on the third alarm at Stations 572, 582, 615, 636, 637, 638 and 639, and from Special Building Signal 247.

Engine Company No. 51 (Fire-boat "Zophar Mills") is assigned to duty on the second alarm at all stations on the East river, on and south of Fourteenth street, at which Engine Company No. 43 (Fire-boat "William F. Havemeyer") responds on the first alarm.

Engine Company No. 53 is relieved from duty on the first alarm, and will perform duty on the second alarm, at Stations 655, 673, 674, 682, 683, 684, 712, 713, 714, 715, 721 and 722.

Relieved from duty on the second alarm, and will perform duty on the third alarm, at Stations 652, 662 and 753.

Relieved from duty on the third alarm at Stations 812, 813, 814, 815, 816, 831, 832, 833, 834, 835, 836, 837, 841, 842, 843, 844, 845, 846, 847, 851, 852, 853, 854, 855, 856, 857, 858, 859, 861, 862, 863, 864, 865, 866, 867, 868, 871, 872, 873, 874, 875, 876, 877, 881, 882, 883, 884, 885, 886, 887, 889, 912, 913, 914, 915, 916, 917, 918 and 919, and from Special Building Signals 188, 257 and 542.

Engine Company No. 54 is relieved from duty on the first alarm, and will perform duty on the second alarm, at Stations 572, 581, 582, 594, 615 and 623.

Relieved from duty on the second alarm, and will perform duty on the third alarm, at Stations 584, 643 and 653.

Relieved from duty on the third alarm at Stations 585, 586, 587, 588, 619, 625, 626, 627, 628, 629, 633, 634, 635, 663, 672 and 698, and from Special Building Signal 352.

III.—The boundaries of the company districts of Engine Companies Nos. 40, 47 and 56 will be as follows, and the orders on file will be altered to read accordingly:

Engine Company No. 40—Fifty-ninth street, Eighth avenue, Seventy-sixth street to North river.

Engine Company No. 56—Seventy-sixth street, Eighth avenue, Ninety-third street to North river.

Engine Company No. 47—Ninety-third street, Eighth avenue, One Hundred and Tenth street to North river.

IV.—Paragraph IV. of General Orders No. 17, C. of D., 1887, is hereby amended to read so that hereafter when Engine Companies Nos. 43 and 51 are responding to alarms for fire on either of the islands, they will stop at the pier at the foot of East Twenty-sixth street, for further instructions. Telephone connections exist between all the islands and the Warden's office at Bellevue Hospital, and the commanding officer in charge of a fire on either one of the islands will immediately communicate the particulars and extent of any fire by telephone to the Warden of Bellevue Hospital, at Twenty-sixth street, and the commanding officer of the force of this Department at Twenty-sixth street will either dismiss the companies or send them on to the fire, as the circumstances warrant.

V.—A large double reel-hose tender, equipped with large hose, connections of various kinds and sizes, pipes, etc., has been located at the quarters of Hook and Ladder Company No. 15, and will respond on the first alarm at all stations on and south of Chambers street, at which Engine Companies Nos. 43 and 51 respond, on the first alarm. It can be called to fires elsewhere by making use of the following Special Call Signal: 16 strokes and 3-4 strokes (followed by one round of the station where it is required), which signal is adopted for the purpose, and will be added to General Orders No. 17, C. of D., 1887.

A copy of this order, after the alterations are made, will be attached to the assignment book (G. O. No. 17, C. of D., 1887) for reference in the future.

JUNE 22.

(General Orders No. 11.)

I.—The following instructions relative to fire-hydrants (in addition to those contained in G. O. No. 21, B. of C., 1881) will be adhered to: Company Commanders will make an inspection of all the hydrants in their company districts on the 5th of each month (except when it falls on a Sunday or a holiday), and forward a report to this office on or before the 10th of each month, showing the exact location of new hydrants, and also all hydrants which may have been removed and not replaced since the previous report was forwarded. They will also keep a correct record of the number of hydrants in their districts, so that this office can keep a correct record of the number of hydrants for the entire city.

II.—Company Commanders will also count the number of hydrants, and forward a statement of the total number of single and double hydrants, and also the Victor and other patterns. After the regular monthly inspections, they will send notices direct to the officer of the Department of Public Works having charge of the hydrants and water-pipes in that part of the city, showing the location of hydrants requiring repairs, and stating the nature of the repairs required. If, after a reasonable time, the repairs have not been made, a report containing the same information will be forwarded to this office.

III.—Portable hydrant nipples will be used on hydrants in all cases where the threads on nipples are loose or broken, or where other defects are found to exist.

JUNE 29.

(General Orders No. 12.)

I.—The following directions as to the manner of responding to alarms for fire hereafter, will be adhered to until otherwise ordered.

For the boundary on and within New Chambers street, from East river to Park Row, Bowery, Fourth avenue, Fourteenth street, Fifth avenue, South Fifth avenue and West Houston street to North river:

AT ALL SECOND ALARMS.

The Chief of Battalion second due, the Engine Company fourth due where there are four, or the fifth due where there are five, and the Hook and Ladder Company second due, will be relieved from responding (except when specially called) and will cover the ground left vacant, by responding to all alarms to which they are assigned to respond (whether marked on reserve or not) on either the first, the second or the third alarm, while the companies are on duty at fires elsewhere.

AT ALL THIRD ALARMS.

The Chief of Battalion second due, the Engine Company fourth due where there are four, or the fifth due where there are five, will be relieved from responding (except when specially called) and will cover the ground left vacant, by responding to all alarms to which they are assigned to respond (whether marked on reserve or not) on either the first, the second or the third alarm, while the companies are on duty at fires elsewhere.

Hook and Ladder Co. No. 20 being assigned to first alarm stations only, will be considered as a reserve company when in quarters, and will respond on the first alarm to all stations on and south of Fourteenth street (where there is only one Hook and Ladder Company to respond), while the companies assigned to those stations are on duty at fires elsewhere.

II.—For all other sections of the city, not included in the foregoing boundary, the following instructions will be observed:

AT ALL FIRST ALARMS.

The Engine Company third due, where three companies are assigned, will be relieved from responding (except when specially called) and will cover the ground left vacant, by responding to all alarms to which they are assigned to respond (whether marked on reserve or not) on either the first, the second or the third alarm, while the companies are on duty at fires elsewhere.

AT ALL SECOND ALARMS.

The Chief of Battalion second due where there are two assigned, the Engine Company third due where there are three, or the fourth due where there are four, and the Hook and Ladder Company second due where there are two, will be relieved from responding (except when specially called) and will cover the ground left vacant, by responding to all alarms to which they are assigned to respond (whether marked on reserve or not) on either the first, the second or the third alarm, while the companies are on duty at fires elsewhere.

AT ALL THIRD ALARMS.

The Chief of Battalion second due where there are two assigned, or the one if there is only one assigned, the Engine Company third due where there are three, or the fourth due where there are four, and all of the Hook and Ladder Companies, will be relieved from responding (except when specially called) and will cover the ground left vacant by responding to all alarms to which they are assigned to respond (whether marked on reserve or not) on either the first, the second or the third alarm, while the companies are on duty at fires elsewhere.

Engine Companies Nos. 43 and 51, and also all double companies, are excluded from the provisions of this order, and they will perform duty as heretofore, as it is understood that second sections, in all cases, act as reserve companies, and the reserve companies act in the same manner as second sections of double companies.

These rules will be complied with as directed, if a third alarm is sent out and either the first or second omitted.

III.—Chiefs of Battalion and Company Commanders will not erase their numbers from the stations in the assignment order, but merely mark them in the following manner in red ink (7), (23), (6), (35), to indicate that they are held in reserve, to cover vacant ground, at stations at which they are assigned (whether marked on reserve or not) until relieved.

As the nearest companies (to those held in reserve) return to quarters, the operators will notify the companies held in reserve that they are relieved as reserve companies, and Chiefs of Battalion will notify each other, by telephone, of their return, so that their reserve will be relieved.

To prevent any misunderstanding, the manner in which the assignments are printed in G. O. No. 17, C. of D., 1887, will be taken as a guide, and where corrections have been made, companies will be considered as having taken the place of those relieved.

IV.—This order will go into effect at 8 o'clock A. M. on the day following its receipt, and will be substituted for G. O. No. 12, previously issued to take effect July 4, which will be rendered null and void, and all copies returned to this office after this order is in effect.

JULY 9.

(General Orders No. 13.)

I.—Company Commanders are directed, during the months of April and October in each year, to have the cellars of their respective company quarters properly dusted, and given at least two coats of whitewash, and will include all areas, walls, under the stairs, the under part of first floor, the beams, girders, columns and bins. Brushes for this purpose will be furnished in the usual manner, and Chiefs of Battalion will provide all the lime that may be required for their respective companies, to carry out the provisions of this order.

II.—Where floors are in a leaky condition they will not be flooded with water for the purpose of washing, but in lieu of such process, the mops should be used when necessary.

JULY 11.

(General Orders No. 14.)

I.—The following rules, relating to the manner of invoicing, or of making a report or a return of the hose in use by the Department, the material used and how manufactured, are hereby promulgated for the information and guidance of the force, and will be adhered to:

RUBBER HOSE.

Rubber hose is manufactured from canvas duck and rubber, in plies, in lengths of 50 feet each, and they are of the following brands:

Maltese Cross	Weight, about 50 pounds per length.
Maltese Cross	60
Peerless	60
White Anchor	60
	60
	60
	60

FABRIC HOSE.

Fabric hose is manufactured from cotton, woven and knit, in plies, multiplies and jackets, all rubber lined, in lengths of 50 feet each, and they are of the following brands:

Eureka, Multiply	Weight, about 55 pounds per length.
Baker, Ply	50
Unique, Jacket	50
American Jacket, Jacket	50
Surprise Jacket, Jacket	50
	50
	50
	50

Blank forms to conform to the provisions of this order will be furnished for hose reports hereafter, when required, and Company Commanders are prohibited from using any other name than the one received by them on invoice, and will account for the hose by lengths only.

II.—The Officer in charge of the Repair Shops will, in delivering new hose, invoice it by the correct name of the brand, and hose not invoiced will be considered as on test, and at the expiration of each year's service, a special report will be forwarded, giving all the particulars of its merits or demerits while in use by the company.

JULY 16.

(General Orders No. 15.)

I.—The following rules for the government of the fire-boats in obtaining a supply of coal, blowing off and washing out boilers, etc., and the manner of covering stations for the boats, while absent, are promulgated for the information and guidance of the force, and will take effect on receipt of the order.

FIRE-BOAT "ZOPHAR MILLS"—COALING.

The fire-boat "Zophar Mills" (Engine 51) will, for the purpose of obtaining a supply of coal, leave her berth at 10 o'clock A. M. Sunday of each week, and proceed to the coaling station at Hoboken.

On leaving, a man will be stationed at the signal-box on the dock, who will, upon receipt of a signal ??? station at which Engine Co. No 51 is assigned, at once hoist and display a signal flag 7 feet long and 4 feet wide, with a white ground, blue border, and the letters "Z. M." in red in the centre, from the flagstaff on the dock.

On this signal being observed, they will immediately return to their berth for instructions, or to respond to an alarm for fire at which they are assigned. After their return they will proceed and complete the coaling up.

The time to be consumed in obtaining a supply of coal will be one and one-half hours.

BLOWING OFF BOILERS.

The designated days for blowing off, washing out boilers and making slight repairs on the "Zophar Mills" will be as follows:

On the 10th of each month the port boiler, and on the 20th of each month the starboard boiler will be blown off and washed out, and such slight repairs as may be necessary will be made. All of which will be done between the hours of 6 A. M. and 6 P. M.

FIRE-BOAT "WILLIAM F. HAVEMEYER"—COALING.

II.—The fire-boat William F. Havemeyer (Engine 43) will, for the purpose of obtaining a supply of coal, leave her berth at 10 o'clock A. M., every alternate Saturday, commencing on the Saturday following the receipt of this order, and proceed to the coaling station at Hoboken. If while coaling the signal flag should be observed on the flagstaff at the berth of Engine 51, at the foot of West Thirteenth street, N. R., they will immediately report at that berth to receive instructions to respond to an alarm for fire, or to locate there and be prepared to respond to all alarms for fire, at which both Engine Companies Nos. 43 and 51 are assigned, until the return of Engine 51, when they will return to the coaling station and complete the coaling of the boat. The time to be consumed in obtaining a supply of coal will be two and one-half hours.

BLOWING OFF BOILERS.

The designated day for blowing off, washing out boilers and making slight repairs on the "William F. Havemeyer," will be on the 5th day of each month, when the boilers will be blown off and washed out, and such slight repairs as may be necessary will be made; all of which will be done between the hours of 6 A. M. and 6 P. M.

III.—When either boat goes out of service from any cause, the Commanding Officer will send in the still-alarm signal, and the operator at the Central Office will either transmit that signal to the boat remaining in service, or notify the Commanding Officer by telephone or any other manner, in which case the boat remaining in service will respond to all signals or stations at which the boat going out of service is assigned, and will continue to so respond until the return to service of that boat, when the operator will again notify the remaining boat of the other's return to service.

IV.—Whenever Engine 43 is at the coaling station and an alarm for fire is received at which Engine 51 responds, they will leave a man on the dock to hoist the signal flag. Engine 43 will then return to the berth of Engine 51 to receive instructions, or to locate there until the return of Engine 51, when they will complete their coaling.

V.—In cases where these rules cannot be complied with, or when extraordinary repairs are required, calling for one of the boats to be laid up for an indefinite period, or for any cause, notice will be immediately sent to the Chief of Department, the Deputy Chiefs and also to the Chief of Battalion in whose battalion the boat is located, stating the objects which call for the boat to be placed out of service, and it will not be placed out of service without the consent of the Chief of Department, except upon extraordinary occurrences, or in case of an accident.

SEPTEMBER 12.

(General Orders No. 16.)

I.—The following resolution, adopted at a meeting of the Board of Commissioners held on the 11th instant, is hereby promulgated for the information and guidance of the force, and will take effect at eight o'clock A. M. on the 15th instant.

Resolved, That, hereafter, any application for leave of absence on account of alleged sickness, for any period exceeding six hours, must be made in writing and be first forwarded to the Chief of Department, and thence be forwarded by the Chief to the proper Medical Officer, with such written reason in favor of or against said application, as to the Chief of Department may seem pertinent; and the Medical Officers shall not grant any extension of a six hours' leave of absence, until an application for such extension shall have been first forwarded to the Chief's office for the purposes above mentioned.

OCTOBER 3.

(General Orders No. 17.)

I.—Members of the Department are (except in cases of actual necessity) strictly prohibited from either mounting or dismounting the apparatuses of the Department from steps in front of wheels while they are in motion.

II.—Members of the Department are strictly prohibited, while performing the duty of policing in or about company quarters, from standing on window-sills, lintels, cornices, or projections of any kind, except when equipped with a life-saving or ladder belt, and held in the same manner as instructed at, and as prescribed by the "School of Instructions," when climbing by pairs. In any case where an accident occurs in or about company quarters resulting in injury, it will be considered a violation of this rule, unless it can be clearly shown that precautionary measures had been taken to avoid accidents.

OCTOBER 4

(General Orders No. 18.)

I.—Company Commanders will make an inspection of their respective company districts and report all violations of law relating to this Department, that may be found to exist therein, in the manner hereinafter stated.

Attention is called to the provisions of chapter 410, Laws of 1882, as amended by chapter 456, Laws of 1885, and chapter 566, Laws of 1887, and to that part of section 487, as amended by section 15, chapter 566, Laws of 1887, wherein it states: and all shutters on the front window openings above the first story shall be so arranged that they can be readily opened from the outside by the firemen.

On all buildings where the shutters are not so arranged, reports will be forwarded to the Board of Commissioners stating those facts.

Attention is also called to that part of section 489 as amended by section 17, chapter 566, Laws of 1887, wherein it states: All buildings, other than dwelling-houses hereafter erected, and all factories, hotels, churches, theatres, school-houses, and other buildings of a public character now erected, in which gas or steam is used for lighting or heating, shall have the supply pipes leading from the street mains provided each with a stop-cock placed in the sidewalk at or near the curb and so arranged as to allow of shutting off at that point; and electric wires for furnishing, light, heat or power, led into any such building from the outside thereof, shall be arranged with suitable appliances to cut off the current on the outside of the building.

Violations of this section, when discovered, will be reported without delay.

Attention is also called to that part of section 494 as amended by section 22, chapter 566, Laws of 1887, wherein it states: The scuttles in all tenement-houses shall have stationary iron ladders leading to the same, and all scuttles and ladders shall be kept so as to be ready for use at all times, and no scuttle shall be less in size than two by three feet. If a bulkhead is used in place of a scuttle, it shall have stairs with sufficient guard or hand-rail leading to the roof; and in case the building shall be a tenement-house, the door in the bulkhead, or any scuttle, shall at no time be locked, but may be fastened on the inside by movable bolts or hooks.

Violations of this section, when discovered, will be reported without delay.

Attention is also called to the entire provisions of section 499, as amended by section 26, chapter 566, Laws of 1887, as shown herein.

Fire-escapes.

§ 499. (As amended by sec. 26, chapter 566, Laws of 1887.) All dwelling-houses now erected, or that may hereafter be erected, more than two stories in height, occupied or built to be occupied by two or more families on any floor above the first, and all buildings now erected, or that may hereafter be erected, more than four stories in height, occupied by, or built to be occupied by, three or more families, above the first story, and every building already erected, or that may hereafter be erected, more than three stories in height, occupied or used as a hotel, lodging-house or boarding-house, having more than fifteen rooms, and every factory, mill, office building, manufactory or workshop, hospital, asylum, or institution for the care or treatment of individuals, and every building in whole or in part occupied or used as a school or place of instruction, or assembly, shall be provided with such good and sufficient fire-escapes or other means of egress in case of fire as shall be directed by the superintendent of buildings, and said superintendent shall direct such

means of egress to be provided in all cases where he shall deem the same necessary. The owner or owners of any building upon which any fire-escapes may now be, or may hereafter be erected, shall keep the same in good repair and well painted, and no person shall at any time place any incumbrance of any kind whatsoever before or upon any fire-escape from any building in said city. It shall be the duty of all firemen, policemen, and every officer of the bureau of inspection of buildings, who shall discover any fire-escape, balcony or ladder of any fire-escape incumbered in any way, to forthwith verbally notify and require the occupant of the premises or apartment to which said fire-escape, balcony or ladder is attached, or for whose use the same is provided, to remove such incumbrance and keep the same clear. If said notice shall not be complied with by the removal of such incumbrance, and keeping said fire-escape, balcony or ladder free from incumbrance, then it shall be the duty of said policeman, fireman or officer of the bureau of inspection of buildings, to apply to the nearest police magistrate for a warrant for the arrest of the occupant or occupants of the said premises or apartment of which the fire-escape forms a part, and the said parties shall be brought before the said magistrate, as for a misdemeanor; and, upon conviction, the occupant or occupants of said premises or apartment shall be fined not more than ten dollars for each offense, or may be imprisoned not to exceed ten days, or both, in the discretion of the court.

Halls and Stairs in Buildings Altered or Erected to be Used as Hotels, and as Dwellings over Five Stories in Height or over Sixty Feet in Height, to be Inclosed in Brick Walls. Entrances to Cellar to be provided in Dwelling-houses.

Every building hereafter erected or altered to be occupied as a hotel, and every dwelling-house exceeding five stories in height hereafter erected or altered to be occupied by two or more families on any floor above the first, and every dwelling-house over sixty feet in height hereafter erected or altered to be occupied by more than one family shall have the halls and stairs inclosed with twelve-inch brick walls. But eight-inch walls, not exceeding fifty feet in their vertical measurement, may inclose said halls and stairs, and be used as bearing walls where the distance between the outside bearing walls does not exceed thirty-three feet, and the area between said brick inclosure walls does not exceed one hundred and eighty superficial feet. The floors, stairs and ceilings in said halls and stairways shall be made wholly of iron, brick, stone or other hard incombustible materials, and at least one flight of such stairs in each of said buildings shall extend to the roof, and be inclosed in a bulkhead built of fire-proof materials. Every dwelling-house arranged for or occupied by two or more families above the first story, hereafter erected, shall be provided with an entrance to the cellar thereof from the outside of such building.

Halls, Doors, Stairways, Seats, Passageways and Aisles in Buildings of Public Character to be Arranged as Directed.

In all buildings of a public character already erected or hereafter to be built in said city, such as hotels, churches, theatres, restaurants, railroad depots, public halls, and other buildings used or intended to be used for purposes of public amusement or instruction, the halls, doors, stairways, seats, passage-ways and aisles shall be arranged as the superintendent of buildings, with the concurrence of the board of fire commissioners, shall direct, to facilitate egress in cases of fire or accident, and to afford the requisite and proper accommodation for the public protection in such cases. All aisles and passage-ways in said buildings shall be kept free from camp-stools, chairs, sofas and other obstructions, and no person shall be allowed to stand in or occupy any of said aisles or passage-ways, during any performance, service, exhibition, lecture, concert, ball, or any public assemblage. The superintendent of buildings, with the concurrence of the board of fire commissioners, may at any time serve a written or printed notice upon the owner, lessee or manager of any of said buildings, directing any act or thing to be done or provided in or about the said buildings and the several appliances therewith connected, such as halls, doors, stairs, windows, seats, aisles, fire-walls and fire-escapes, so as to afford such security to the public in the uses to which they may be severally applied, as they may deem necessary.

Nothing herein contained shall be construed to authorize or require any other alterations to existing theatres than are specified in this section.

Reports recommending fire-escapes for all buildings prescribed by the above section will be forwarded without delay. The removal of obstructions from fire-escapes will be strictly carried out as prescribed by this section, and reports of removal of obstructions only will be forwarded.

II.—The hinged folding iron ladder used in some instances in connection with balcony fire-escapes should be classed as defective, unless the ladder is in such a position that it may be used at any time by the occupants. Where such ladders are found folded against the front of a building and locked, verbal notice will be immediately given to owners or occupants to lower such ladders, and if it is not complied with in a reasonable time, a report of defective fire-escape, giving all the facts, will be forwarded.

III.—Attention is also called to the entire provisions of section 446, chapter 410, Laws of 1882, as shown herein:

Obstructions of Fire-hydrants—Removal of Snow, Ice, etc.

§ 446. No person shall in any manner obstruct the use of any fire-hydrant in said city, or allow any snow or ice to be thrown or piled upon or around the same, or have or place, or allow to be placed, any material in front thereof, from the curb line to the centre of the street, and to within ten feet from either side thereof, and all snow and ice accumulating within such space shall be removed by the owner or owners, lessee or lessees, of the premises fronting the same in the same manner as is prescribed for the keeping clear of the sidewalk, under a penalty of ten dollars for each and every such offense; and any and all material found as an obstruction, as aforesaid, may be forthwith removed by the officers or employees of said board, and at the risk, cost and expense of the owner or claimant, and said board may take all proper measures to keep said hydrants from freezing and in proper condition for use at all times.

Verbal notice will be given to parties herein named, or to contractors and others, laying subways, sewers, etc., and if not complied with after a reasonable time has elapsed, reports will be forwarded.

Sections 452, 453, 457, 460, 461, 462 and 463, of chapter 410, Laws of 1882, as shown herein, will be carried out, and a strict compliance with the provisions of G. O. No. 1, Board of Commissioners, 1889, will be observed.

Shavings, How Stowed Away—Kindling Fires in Streets, etc.—Penalty—Chimney Fires.

§ 452. All carpenters or others in said city making or using shavings, shall, at the close of each day, cause the same to be securely stowed in some safe place remote from danger by means of fire, under the penalty of five dollars for each omission so to do. No person shall kindle any fire nor furnish the materials nor in any way authorize or allow any fire to be made in any street, road, alley, lane, or upon any pier, wharf, or bulkhead in said city, except under such regulations as shall be established by said board of fire commissioners, under a penalty of ten dollars for each and every such offense. If any chimney, stove-pipe, or flue within the said city shall take fire, the occupant of the premises to which such chimney, stove or flue appertains shall forfeit the sum of five dollars.

Closing of Hoistways, Trap-doors and Iron Shutters—Liability in Civil Actions for Negligence, etc.

§ 453. All hoistways, well-holes, trap-doors, and iron shutters shall be closed at the completion of the business of each day by the occupant of the building having use or control of same, and in case of a violation of this provision, such occupant having the use or control thereof shall forfeit and pay a penalty of fifty dollars for each and every neglect or omission so to do. And for any accident or injury to life and limb, resulting directly or indirectly from any neglect or omission to properly comply with any of the requirements of this section, the person or persons culpable or negligent in respect thereto, shall be liable to pay to any officer, agent or employee of said board injured, or whose life may be lost (resulting from such neglect or omission) while in the discharge or performance of any duty imposed by said board, or to the wife and children, or to the parents, or to the brothers and sisters, being the surviving heirs at law of any deceased person thus having lost his life, a sum of money in case of injury to person not less than one thousand dollars, and in case of death not less than five thousand dollars, such liability to be determined and such sums recovered in an action to be instituted by said board for and in behalf of any person injured, or the family or relatives of any person killed as aforesaid; and any and all persons for any fire resulting from his or their willful or culpable negligence, or criminal intent or design, shall, in addition to the present provisions of law for the punishment of persons convicted of arson, be liable in a civil action for the payment of any and all damages to the person and property the result of such fire, and also for the payment of all costs and expenses of said board incurred in and about the use of employees, apparatus and materials, in the extinguishment of any fire resulting from such cause, the amount of such costs and expenses to be fixed by said board, and when collected shall be paid into the relief fund of said department herein created; and shall also be liable for injury to person or loss of life of any officer, agent or employee of said board, in the same manner and like extent and to be sued for in like manner as in the preceding part of this section provided for.

Crude Petroleum and Coal Oils—Warehouses for—Petroleum, Kerosene, etc.—How Tested—Number of Barrels of, above Cellar—Storage in Cellars—Above First Floor, Limited—Carting, Handling and Transporting—Permits for Storage in Fire-proof Buildings, etc.

§ 457. No person shall have, keep upon sale, or store in any place or building within the corporate limits of the city, any crude petroleum, coal, or any similar oil, nor any of their products, either of which shall emit an inflammable vapor at a temperature below one hundred degrees of Fahrenheit, except under the following provisions: or any of their products may be stored in detached and properly ventilated warehouses, the outer walls of which shall be stone, brick or iron, especially adapted for the purpose, by having raised sills, at least two feet high, or the ground

floor of which shall be at least two feet below the level of street or adjoining yard or so constructed as to actually prevent the overflow of such substances beyond the premises where the same may be kept or stored; which said warehouses shall not be occupied in any part as a dwelling; and if less than fifty feet from any adjacent dwelling the same must be separated by a brick or stone wall at least ten feet in height and sixteen inches thick, constructed in such manner as said commissioners may prescribe, but the same may be stored in such other manner as said commissioners may designate under a special permit issued therefor. No refined petroleum, kerosene, coal, or similar oil, or earth or rock oil, or machinery oil, or any product thereof to be used for illuminating or heating purposes which shall emit an inflammable vapor at a temperature below one hundred degrees Fahrenheit, shall be kept upon sale or stored within the corporate limits of the city. All said articles shall be tested and their quality determined by sanitary surveyors authorized by said commissioners, using G. Tagliabue's instruments, or such other instruments as may be designated by said commissioners, the barrels or packages containing the same to be legibly stamped or marked with said inspector's official stamp or mark. No refined petroleum, kerosene, gasoline, naphtha, or benzene, benzole, camphene, or burning fluid or products or compounds containing any of said substances, when temporarily placed above the cellar or basement of any building, and in barrels of not over forty-five gallons each, or in metallic vessels or tanks, shall exceed in the whole quantity the contents of fifty of said barrels, provided, however, that the whole quantity of said refined oils that may be so kept or stored, over night, shall not exceed the contents of ten of said barrels, unless stored in the manner provided for storing crude petroleum; and when stored in cellars or basements, surrounded by walls of brick or stone, and at least two feet below the level or grade of the sidewalk, street, or land adjacent, the whole quantity shall not exceed the contents of one hundred and fifty barrels, unless stored in warehouses specially adapted for that purpose, as required for the storage of crude petroleum under this section; provided, also, that no quantity of said oils greater than one barrel shall be stored or kept in any building occupied in any part thereof as a dwelling. No refined petroleum, kerosene, gasoline, naphtha, benzene, benzole, camphene, burning fluid, or products or compounds containing any of said substances, shall be kept or stored on or above the first story or floor of any building, exceeding in the whole quantity the contents of five barrels, of forty gallons each. In no case shall any of the articles named in this section be allowed to remain on the sidewalk beyond the front line of any building, or in or upon the streets, docks, piers, bulkheads, slips, highways, or public places a longer time than is actually necessary for the removal or loading of the same, and said commissioners may establish and enforce general regulations and issue such orders and special directions relative to the handling, lightering, carting, loading, unloading, and transportation of the several articles named under this section, as in their discretion shall be deemed necessary for the public protection, and said commissioners may issue special permits authorizing the keeping of any of the articles enumerated under this section in buildings, tanks, or structures fire-proof throughout, in such quantities, in such manner, and subject to such regulations as shall tend to secure the same against danger.

Fire or Light on Vessels, etc., within 150 Feet of Places where Petroleum is Stored—Exceptions—Penalty.

§ 460. It shall be unlawful for the owner, or for any of the officers, employees, or crew of any ship, vessel, canal boat, barge, lighter, boat or other craft lying at or within one hundred and fifty feet of any warehouse, yard, shed, dock, pier, bulkhead, wharf, or other place within the county of New York, at, in, or on which petroleum oil, or any of its products is stored, or kept for export, or in quantities exceeding ten thousand gallons; or for any other person or persons to bring, keep, have, or use, or suffer or permit to be brought, kept, had or used on board of any such ship, vessel, canal boat, barge, lighter, boat, or other craft, or at, in, or on any such warehouse, shed, yard, dock, pier, bulkhead, wharf, or other place, any lighted match, or lighted cigar, cigarette, or pipe, or any fire or light of any kind, without, or otherwise than in strict conformity to the written permission of the owner, lessee, or superintendent of such warehouse, shed, yard, dock, pier, bulkhead, wharf, or other place specifying the fire or light to be kept, had or used, the particular purpose for, and the place or spot at which the same may be so kept, had or used, and the particular manner of keeping, having or using the same. This section shall not apply to steam tugs while transacting their ordinary business, nor to steam fire-engines engaged in extinguishing fires. Every violation of this section shall be a misdemeanor, triable before the court of special sessions.

Regulations in Regard to Chemicals.

§ 461. No quantity of the following-named chemicals and combustible materials greater than is hereinafter enumerated shall be stored or kept in or upon any one building within the city, namely: hemp or flax, unbaled, two thousand pounds in the whole; varnish, rosin, twenty barrels in the whole; alcohol, pure spirits, camphene, burning fluid, five barrels in the whole; unslaked lime, ten barrels; vitriol, five carboys in the whole; loose wood shavings, one hundred pounds; except the same shall be stored and kept upon an open space of ground, surrounded by a wall constructed entirely of fire-proof materials, at least twelve feet high and twelve inches thick; or within a fire-proof building remote or distant at least fifty feet from any adjacent building.

Storing of more than Twenty Tons of Hay, etc., Prohibited, except in Fire-proof Buildings, etc.—Uncovered Hay, etc.—Keeping of.

§ 462. No quantity of cotton, hay, straw, flax, hemp, husks, rushes, oakum, rags, sea-weed, jute or other vegetable fibre when pressed or baled, greater than twenty tons in the whole, shall be stored or kept in any building within the city of New York, unless kept in a building fire-proof throughout, or upon an open space of ground surrounded by a wall constructed entirely of fire-proof materials, at least twelve feet high and twelve inches thick, or within a fire-proof building remote or distant at least fifty feet from any adjacent building, or in a building approved by the New York board of underwriters or the commissioners of the fire department, and of which approval a certificate shall have been issued by either of said boards, and shall not have been revoked; and none of the articles enumerated in this section, when loose or not baled, shall be kept as aforesaid in quantity exceeding one thousand pounds in the whole; excepting in a private stable, in which may be kept such loose hay and straw in quantity not exceeding twenty-five hundred pounds in the whole. No person shall have, put or keep any hay or straw uncovered in any stack or pile, or in any other way exposed, within one hundred yards of any building in said city, or shall have, put or keep within said city any hay, straw, hemp, flax, shavings or rushes in any building not built of stone or brick or iron, or covered with tile or slate or other fire-proof material, which is or shall be within ten feet of any dwelling-house or chimney whatsoever.

Right to Enter Stables, Vessels, etc.—Deposit of Ashes—Notice to Remove or Secure Combustible Materials—Collection of Expense of Removal.

§ 463. The commissioners and their officers or agents under the direction of said commissioners or either of them, are hereby empowered at any and all times to enter into and examine all buildings, dwelling-houses, livery and other stables, hay-boats or vessels, and places where any merchandise, gunpowder, hemp, flax, tow, hay, rushes, firewood, boards, shingles, shavings, or other combustible materials may be lodged, for the purpose of ascertaining all violations of any of the provisions of this title, and also the places where ashes may be deposited, and upon finding that any of them are defective or dangerous, or that a violation of this title exists therein, may deliver a written or printed notice, containing an extract from this title, of the provisions in reference thereto, and notice of any violation thereof, and notice to remove, amend or secure the same within a period to be fixed therein. And in case of neglect or refusal on the part of such occupant or of the possessor of such combustible materials, or any of them, so to remove, amend or secure the same within the time and in the manner directed by the said commissioners in such notice, the party offending shall forfeit and pay, in addition to any penalty otherwise imposed, the sum of twenty-five dollars, and the further sum of five dollars for every day's neglect to remove, amend or secure the same after being so notified. All the expenses of any removal, alteration or amendment as aforesaid, shall be paid in the first instance by the occupant, but shall be chargeable against the owner of such dwelling-house or other building, and shall be deducted from the rent of the same unless such expense be rendered necessary by the act or default of such occupant, or unless there be a special agreement to the contrary between the parties.

IV.—The following extract from G. O. No. 25, B. of C. 1881, is again promulgated for the information of the force, and will be strictly complied with:

EXTRACT FROM G. O. No. 25—O. B. C., 1881.

"The following rules, adopted by the Board, are hereby promulgated:

"I.—Company officers shall make inspections in their company districts, and report all places where fireworks are sold without permit, all places and persons selling kerosene oil without having a license, and persons having vegetable fibre in their buildings without a permit, and shall see that permits and licenses are for the current year, and properly and conspicuously displayed; shall also see that persons making fire in the street have permit to do so; all such permits and licenses to be issued from this Department.

"II.—All notices from the Bureau of Combustibles must be served in the following manner:

"1. By delivering the notice to the person to whom it is directed, or to some person of suitable age and discretion (in the employ of such person) on the premises.

"2. If the person to whom the notice is directed has removed from the address given, make diligent inquiry in the neighborhood and ascertain, if possible, the present whereabouts of the person or persons addressed. Also ascertain the full name or names of the person or firm occupying the premises at the address given, the nature of the business carried on there, and the date when such business was commenced, giving full particulars in the return.

"3. In serving a firm or partnership, ascertain the full names of the persons composing the firm, and state the same in the return.

"4. In serving a corporation, ascertain the full names and the official titles of the officers thereof, and state the same in the return.

"5. Proper report respecting all notices sent for service from the Bureau of Combustibles must be promptly returned to said Bureau. The fact of service, or in case of failure to serve any notice, the cause of such failure, must be stated in the return. All returns must be written in ink and signed by the party detailed to make the service. * * * * *

V.—Chiefs of Battalion are directed to supervise the inspections within their respective districts, and to see that the provisions of this order are strictly carried out. In all cases where obstructions are reported to stairways, or to hydrants, or where lumber or combustibles are stored on roofs, they will make personal inspections of such obstructions, and see that the same are removed without delay.

Deputy Chiefs of Department are directed to report to this office any indifference or neglect, which they may observe, in carrying out the provisions of this order, and in all cases where streets are opened in front of hydrants, from any cause, and causing an obstruction thereto, they will report the facts to this office without delay.

Register of Officers of the Uniformed Force in Active Service on December 31.

NAME.	ORIGINAL APPOINTMENT.			PROMOTION.	
	Age.	Grade.	Date.	Grades.	Dates.
Chief of Department.					
Bonner, Hugh	27	Foreman	Sept. 18, 1865	Chief of Battalion .. 2d Assistant Chief of Department .. Assistant Chief of Department .. Chief of Department ..	May 21, 1873 Jan. 4, 1883 May 1, 1884 May 22, 1889
Deputy Chiefs of Department.					
McCabe, John	26	a Fireman	Sept. 26, 1866	Assistant Foreman .. Foreman	Dec. 1, 1873 July 1, 1874
		Fireman	July 1, 1873	Chief of Battalion .. b 2d Assistant Chief of Department .. Deputy Chief of Department ..	May 16, 1881 May 1, 1884 May 22, 1889
Reilly, Francis J.	22	Fireman	Sept. 27, 1865	Assistant Foreman .. c Foreman	Oct. 15, 1870 July 1, 1871
				Assistant Foreman .. Foreman	May 1, 1872 June 6, 1872
				Chief of Battalion .. d 2d Assistant Chief of Department .. Deputy Chief of Department ..	Feb. 1, 1880 Aug. 4, 1886 May 22, 1889
Chiefs of Battalion.					
1. Gicquel, Benj. A.	24	Fireman	Oct. 16, 1865	Assistant Foreman .. Foreman	Jan. 22, 1866 June 1, 1866
				District Engineer .. Chief of Battalion ..	July 1, 1871 May 21, 1873
2. Rowe, William	24	Foreman	Oct. 20, 1865	Chief of Battalion ..	May 21, 1873
3. Fisher, John S.	34	Fireman	Jan. 9, 1868	Assistant Foreman .. Foreman	June 1, 1868 July 15, 1869
				Chief of Battalion ..	May 21, 1873
4. Campbell, Samuel	25	Fireman	Oct. 16, 1865	Assistant Foreman .. Foreman	Aug. 1, 1869 Feb. 1, 1873
				Chief of Battalion ..	Sept. 23, 1875
5. Bresnan, John J.	22	Fireman	Oct. 20, 1865	Assistant Engineer of Steamer	Mar. 16, 1871
				Assistant Foreman .. Foreman	July 1, 1871 Mar. 1, 1873
				Chief of Battalion ..	Feb. 1, 1880
6. Reeves, Michael F.	27	Fireman	Apr. 16, 1867	Assistant Foreman .. Foreman	Oct. 15, 1870 Aug. 1, 1871
				Chief of Battalion ..	Nov. 1, 1881
7. Lally, Thomas	22	Fireman	Aug. 15, 1870	Assistant Foreman .. Foreman	Apr. 21, 1873 Nov. 1, 1881
				Chief of Battalion ..	May 1, 1884
8. Purroy, Charles D.	24	Private	Jan. 22, 1880	Fireman	Apr. 1, 1880
				Assistant Foreman .. Foreman	Apr. 5, 1881 Dec. 31, 1882
				Chief of Battalion ..	May 1, 1884
9. McGill, Joseph F.	23	Fireman	Mar. 21, 1866	Assistant Foreman .. Foreman	April 1, 1870 Oct. 1, 1872
				Chief of Battalion ..	Aug. 12, 1884
10. Cashman, John J.	22	Fireman	Oct. 17, 1866	Assistant Foreman .. Foreman	Feb. 15, 1872 Apr. 27, 1879
				Chief of Battalion ..	Aug. 4, 1880
11. Kehoe, John H.	22	Fireman	Oct. 20, 1865	Assistant Foreman .. Foreman	June 1, 1869 Dec. 1, 1869
				Chief of Battalion ..	Dec. 23, 1888
12. Short, Peter H.	26	Fireman	May 1, 1875	Assistant Foreman .. Foreman	June 1, 1880 Apr. 18, 1883
				Chief of Battalion .. e Foreman	Aug. 4, 1886 July 1, 1887
				Chief of Battalion ..	May 22, 1889
Foremen.					
1. Poynton, Joseph	26	Foreman	Sept. 8, 1865		
2. Spence, Arnot	31	Foreman	Oct. 20, 1865		
3. McNeil, Alex	29	Assistant Foreman ..	Oct. 16, 1865	Foreman	June 1, 1858
4. Donohue, Patrick	26	Fireman	Sept. 27, 1865	Assistant Foreman .. Foreman	June 1, 1868 Feb. 1, 1869
5. Best, Samuel	32	Fireman	June 14, 1866	Assistant Foreman .. Foreman	Apr. 17, 1867 Mar. 1, 1869
6. Shaw, William	27	Assistant Foreman ..	Oct. 2, 1865	Foreman	May 1, 1869
7. McCormick, James A.	27	Fireman	Oct. 6, 1865	Assistant Foreman .. Foreman	June 23, 1868 June 15, 1869
8. Castles, John	27	Fireman	July 27, 1866	Assistant Foreman .. Foreman	Apr. 1, 1869 July 15, 1869
9. McLaughlin, William	29	Fireman	May 22, 1868	Assistant Foreman .. Foreman	June 1, 1869 Mar. 1, 1870
10. Erb, George W.	23	Fireman	Oct. 11, 1865	Assistant Foreman .. Foreman	Feb. 1, 1869 July 25, 1870
11. Hayes, William F.	27	f Fireman	July 31, 1865		
		Fireman	Apr. 1, 1866	Assistant Foreman .. Foreman	Oct. 1, 1869 Oct. 15, 1870
12. Landers, William H.	41	Fireman	Sept. 29, 1865	Assistant Foreman .. Foreman	Nov. 17, 1865 Dec. 24, 1870
13. Wolff, Charles A.	33	Fireman	Mar. 21, 1866	Assistant Foreman .. Foreman	Aug. 1, 1870 July 1, 1871
14. Meagher, Daniel J.	23	Fireman	Oct. 6, 1865	Assistant Foreman .. Foreman	Dec. 24, 1870 Nov. 1, 1871
15. Vetter, Peter, Jr.	26	Fireman	Oct. 27, 1865	Assistant Foreman .. Foreman	June 1, 1868 May 1, 1872
16. Cowie, John A.	30	Assistant Foreman ..	Sept. 14, 1863	Foreman	Mar. 1, 1873
17. Jones, Henry M.	27	Assistant Foreman ..	Sept. 27, 1863	Foreman	Mar. 1, 1873
18. Ward, John	26	Fireman	Sept. 25, 1865	Assistant Foreman .. Foreman	Jan. 1, 1870 Mar. 1, 1873
19. Sattler, John	29	Fireman	Oct. 20, 1865	Assistant Foreman .. Foreman	July 1, 1871 Mar. 1, 1873

a Resigned, November 12, 1867.
b Dismissed, July 21, 1886, and reinstated by court,
July 1, 1887.
c Reduced to Fireman, April 1, 1872.

d Re-assigned as Chief of Battalion, July 1, 1887.
e Re-assigned as Foreman, July 1, 1887.
f Resigned, January 15, 1866.

NAME.	ORIGINAL APPOINTMENT.			PROMOTION.	
	Age.	Grade.	Date.	Grades.	Dates.
20. Sheridan, Philip	23	Fireman	Oct. 20, 1865	Assistant Foreman .. Foreman	July 1, 1871 June 16, 1873
21. Connor, David	25	Fireman	July 31, 1865	Assistant Foreman .. Foreman	Nov. 1, 1871 June 16, 1873
22. Welsh, John	23	Fireman	Oct. 11, 1865	Engineer of Steamer .. Assistant Foreman .. Foreman	Aug. 1, 1866 Feb. 15, 1872 June 16, 1873
23. Chambers, Charles	31	{ Engineer of Steamer	Sept. 14, 1865	Assistant Foreman .. Foreman	July 1, 1873 Dec. 1, 1873
24. Perley, Hamilton F.	21	{ Ass't Engineer of Steamer ..	Mar. 15, 1873	Assistant Foreman .. Foreman	Jan. 15, 1874 Aug. 1, 1874
25. Monroe, James H.	29	Fireman	Oct. 16, 1865	Foreman	Apr. 17, 1867
				District Engineer .. Chief of Battalion .. Foreman	July 1, 1871 May 21, 1873 Feb. 15, 1875
26. Van Horn, Thomas J.	26	Fireman	May 6, 1871	Assistant Foreman .. Foreman	Jan. 15, 1874 Mar. 1, 1875
27. Kittson, Hugh	28	Fireman	Sept. 25, 1865	Assistant Foreman .. Foreman	July 1, 1873 Mar. 1, 1875
28. Eagan, John J.	25	Fireman	Sept. 11, 1865	Assistant Foreman .. Foreman	Oct. 15, 1870 Aug. 20, 1875
29. Fisher, Isaac	22	{ h Engineer of Steamer	Oct. 1, 1869		
		{ Ass't Engineer of Steamer ..	Nov. 1, 1872	Engineer of Steamer .. Assistant Foreman .. Foreman	July 1, 1873 Apr. 15, 1874 Dec. 2, 1875
30. Wray, Robert	23	Fireman	Oct. 16, 1865	Assistant Engineer of Steamer	June 1, 1871
				Assistant Foreman .. Foreman	Sept. 1, 1874 Mar. 12, 1877
31. Bradley, Daniel	30	Fireman	Mar. 1, 1866	Assistant Foreman .. Foreman	Mar. 1, 1873 Apr. 3, 1878
32. Bermingham, William ..	34	Fireman	Dec. 15, 1873	Assistant Foreman .. Foreman	Oct. 1, 1875 Dec. 8, 1879
33. Farrell, Robert R.	26	{ i Ass't Engin'r of Steamer ..	Nov. 1, 1871		
		{ Ass't Engineer of Steamer ..	Mar. 15, 1873	A Assistant Foreman .. Foreman	Jan. 15, 1874 Feb. 1, 1880
34. Fleming, William H.	22	Fireman	Oct. 17, 1870	Assistant Foreman .. Foreman	Aug. 2, 1877 Mar. 17, 1880
35. Shay, Charles H.	21	Private	Nov. 21, 1877	Fireman	Apr. 1, 1878
				Assistant Engineer of Steamer	Apr. 1, 1878
				Engineer of Steamer .. Assistant Foreman .. Foreman	Apr. 4, 1879 Dec. 10, 1879 June 1, 1880
36. Perley, Charles H.	22	Private	Jan. 17, 1879	Assistant Foreman .. Foreman	Feb. 1, 1879 Aug. 25, 1880
37. O'Brien, Edward	25	Fireman	July 1, 1869	Assistant Foreman .. Foreman	Mar. 1, 1873 Sept. 17, 1880
38. Brown, Wm. W.	23	Fireman	June 14, 1866	Assistant Foreman .. Foreman	Dec. 1, 1873 Apr. 1, 1881
39. Byrne, Joseph P.	28	Fireman	Oct. 1, 1871	Assistant Foreman .. Foreman	May 1, 1875 July 1, 1881
40. Duane, William	28	Fireman	Aug. 8, 1868	Assistant Foreman .. Foreman	July 20, 1871 Nov. 1, 1881
41. Colby, William J.	30	Fireman	July 7, 1875	Assistant Foreman .. Foreman	June 1, 1876 Nov. 1, 1881
42. Searle, George S.	21	Fireman	Nov. 15, 1874	Assistant Foreman .. Foreman	July 22, 1880 Nov. 18, 1881
43. Shaw, Joseph	28	{ j Engineer of Steamer	Oct. 13, 1865		
		{ Ass't Engineer of Steamer ..	Feb. 1, 1874	Engineer of Steamer .. Assistant Foreman .. Foreman	Mar. 15, 1874 Aug. 8, 1878 Dec. 31, 1882
44. Cusick, George	24	Fireman	Apr. 21, 1869	Assistant Foreman .. Foreman	May 15, 1875 Apr. 18, 1883
45. McAdams, Henry W.	23	Fireman	Sept. 18, 1874	Assistant Foreman .. Foreman	Nov. 1, 1881 May 23, 1883
46. Gleason, Luke	25	{ k Fireman	Jan. 1, 1869		
		Fireman	Dec. 1, 1872	Assistant Foreman .. Foreman	Apr. 8, 1880 July 1, 1883
47. Murray, Henry	24	{ l Fireman	Oct. 13, 1865		
		Fireman	Dec. 17, 1874	Assistant Foreman .. Foreman	Oct. 1, 1877 Jan. 15, 1884
48. Gooderson, Frederick W., Jr.	23	Private	Oct. 13, 1879	Assistant Engineer of Steamer	Apr. 1, 1880
				Assistant Foreman .. Foreman	May 23, 1883 May 3, 1884
49. McCutchen, James	31	Fireman	Sept. 18, 1865	Assistant Foreman .. Foreman	Mar. 1, 1869 May 20, 1884
50. Hart, Michael	28	Fireman	Oct. 20, 1865	Assistant Foreman .. Foreman	July 1, 1871 May 20, 1884
51. Connolly, Patrick J.	28	Fireman	Jan. 15, 1873	Assistant Foreman .. Foreman	Nov. 16, 1881 May 20, 1884
52. McCabe, Hugh D.	25	Private	Feb. 9, 1882	Assistant Foreman .. Foreman	July 22, 1883 May 20, 1884
53. Shea, Joseph	29	Foreman	May 20, 1884		
54. Cosgrove, James	21	Private	Jan. 1, 1878	Assistant Engineer of Steamer	Mar. 21, 1880
				Assistant Foreman .. Foreman	July 1, 1881 June 6, 1884
55. Falvey, John	21	Fireman	Mar. 11, 1871	Assistant Foreman .. Assistant Foreman .. Foreman	Feb. 15, 1872 Nov. 1, 1881 Aug. 1, 1884
56. McDonald, Alexander	28	{ n Fireman	July 31, 1865		
		Fireman	June 12, 1873	Assistant Foreman .. Foreman	Jan. 7, 1876 Aug. 7, 1884
57. Scannell, Edward A.	24	Private	Apr. 7, 1881	Assistant Foreman .. Foreman	May 20, 1884 Aug. 16, 1884
58. Binns, John	25	Private	Mar. 22, 1882	Assistant Foreman .. Foreman	May 20, 1884 Aug. 16, 1884
59. Golden, John J.	30	Fireman	Dec. 18, 1874	Assistant Foreman .. Foreman	Feb. 1, 1883 Aug. 22, 1884
60. Barry, James	23	{ o Hoseman	Jan. 20, 1874		
		Fireman	Feb. 12, 1876	Assistant Foreman .. Foreman	May 20, 1884 Aug. 22, 1884
61. Sullivan, Thomas	26	{ p Dist. Engineer Foreman	Sept. 6, 1865 Aug. 23, 1884		
62. Kenny, Thomas A.	29	Fireman	Aug. 4, 1876	Assistant Foreman .. Foreman	July 10, 1879 Feb. 1, 1885
63. Lawler, Daniel	24	Fireman	May 1, 1875	Assistant Foreman .. Foreman	Aug. 16, 1884 Feb. 1, 1885

g Reduced to Foreman, February 15, 1875.
h Resigned, May 21, 1872.
i Resigned, May 21, 1872.
j Resigned, October 16, 1871.
k Resigned, June 1, 1872.

l Resigned, March 31, 1869.
m Dismissed, June 19, 1874.
n Resigned, June 8, 1872.
o Resigned, July 1, 1875.
p Dropped, May 21, 1873.

ORIGINAL APPOINTMENT.						PROMOTION.					
NAME.	Age.	Grade.	Date.	Grades.		NAME.	Age.	Grade.	Date.	Grades.	
64. Callaghan, Daniel H.....	26	Fireman	Mar. 1, 1873	{ Assistant Foreman.	July 10, 1879	37. Jones, William H.....	29	Ladderman.....	Sept. 25, 1875	{ Private.....	Apr. 1, 1878
				{ Foreman.....	June 25, 1885					{ Assistant Foreman..	May 23, 1883
65. Cook, Martin.....	23	Hoseman.....	Jan. 1, 1870	{ Assistant Engineer	July 24, 1871	38. Needham, John T.....	27	Private.....	Jan. 1, 1881	Assistant Foreman.	May 23, 1883
				{ Engineer of Steamer	Jan. 13, 1874	39. Hopper, Charles.....	25	x Fireman.....	Mar. 2, 1870	Assistant Foreman.	Aug. 1, 1883
				{ Assistant Foreman.	Jan. 15, 1874			Fireman.....	Feb. 12, 1876	Assistant Foreman.	Aug. 1, 1883
				{ Foreman.....	Mar. 1, 1875	40. Meehan, Edward.....	24	Fireman.....	July 23, 1870	Assistant Foreman.	Aug. 13, 1883
				{ Foreman.....	Nov. 15, 1885	41. Beekler, Jacob.....	24	Fireman.....	Mar. 15, 1871	Assistant Foreman.	Nov. 1, 1883
66. Teal, Henry.....	21	Fireman	Aug. 1, 1871	{ Assistant Foreman.	Sept. 22, 1880	42. Autenreith, Chas. J.....	25	Private.....	Feb. 12, 1881	{ Assistant Engineer	Dec. 17, 1881
				{ Foreman.....	Nov. 15, 1885					{ of Steamer.....	May 20, 1884
67. Cooney, John J.....	29	Private.....	Sept. 1, 1882	{ Assistant Engineer	June 6, 1884	43. Head, Thomas.....	26	Fireman.....	Feb. 15, 1869	Assistant Foreman.	May 20, 1884
				{ of Steamer.....	July 1, 1885	44. Touhey, Martin J.....	23	Fireman.....	Mar. 15, 1872	Assistant Foreman.	May 20, 1884
				{ Assistant Foreman.	Nov. 15, 1885	45. Donohue, Malachi.....	24	Fireman.....	June 10, 1870	y Assistant Foreman.	Oct. 17, 1872
68. Ahearn, Thomas J.....	23	Fireman	May 9, 1873	{ Assistant Foreman.	Apr. 1, 1881			Fireman.....	Dec. 1, 1873	Assistant Foreman.	May 20, 1884
				{ Foreman.....	Feb. 25, 1886	46. Gaffney, Andrew.....	27	Fireman.....	Dec. 1, 1873	Assistant Foreman.	May 20, 1884
69. White, John H.	30	Fireman.....	Jan. 2, 1875	{ Assistant Foreman.	Feb. 1, 1883	47. Reed, Samuel	25	Fireman.....	Sept. 1, 1875	Assistant Foreman.	May 20, 1884
				{ Foreman.....	Feb. 25, 1886	48. Hennessey, William	30	z Fireman.....	Dec. 21, 1874	Assistant Foreman.	May 20, 1884
70. Fraser, William D.....	24	Fireman.....	July 3, 1872	{ Assistant Foreman.	May 20, 1884			Private.....	Jan. 18, 1882	Assistant Foreman.	May 20, 1884
				{ Foreman.....	Dec. 1, 1886	49. Leonard, John H.....	32	Private.....	Feb. 1, 1877	{ Fireman.....	Apr. 13, 1877
71. Croker, Edward F.....	21	Private.....	June 22, 1884	{ Assistant Foreman.	Aug. 16, 1884					{ Assistant Engineer	Apr. 20, 1877
				{ Foreman.....	Feb. 25, 1886					{ of Steamer.....	Oct. 4, 1878
72. McNamara, Michael J.....	25	Fireman.....	Apr. 21, 1873	{ Assistant Foreman.	Aug. 27, 1884					{ Engineer of Steamer	Aug. 16, 1884
				{ Foreman.....	Dec. 1, 1886	50. O'Grady, Joseph.....	27	Private.....	Nov. 24, 1877	{ Assistant Engineer	Oct. 20, 1880
73. Nugent, James M.....	24	Private.....	Jan. 4, 1884	{ Assistant Foreman.	July 1, 1885					{ of Steamer.....	Aug. 16, 1884
				{ Foreman.....	Jan. 15, 1887	51. Reilly, Bernard J.....	27	Fireman.....	May 1, 1875	Assistant Foreman.	Aug. 21, 1884
74. O'Hearn, Thomas.....	29	Fireman.....	June 12, 1875	{ Assistant Foreman.	July 1, 1883	52. Reilly, Michael A.....	22	Private.....	Apr. 4, 1881	Assistant Foreman.	Aug. 21, 1884
				{ Foreman.....	Feb. 1, 1887	53. Kinsella, Henry.....	27	Private.....	Feb. 3, 1883	Assistant Foreman.	Aug. 27, 1884
75. Siegmann, Louis L.....	24	Fireman.....	Feb. 8, 1871	{ Assistant Foreman.	Jan. 15, 1874	54. McNamara, John J.....	26	Fireman.....	Dec. 7, 1877	{ Assistant Engineer	Apr. 11, 1880
				{ Foreman.....	Mar. 1, 1887					{ of Steamer.....	July 1, 1885
76. McAvoy, Michael.....	25	Fireman.....	Dec. 1, 1865	{ Assistant Foreman.	Dec. 31, 1882	55. Petersen, Adolph J.....	25	Fireman.....	Oct. 25, 1873	Assistant Foreman.	July 1, 1885
				{ Foreman.....	May 6, 1887	56. Tobin Edward H.....	22	Fireman.....	May 4, 1875	Assistant Foreman.	July 1, 1885
77. Quirk, William.....	27	Private.....	May 19, 1881	{ Assistant Foreman.	May 20, 1884	57. Beshinger, Joseph.....	23	Private.....	May 10, 1880	Assistant Foreman.	July 1, 1885
				{ Foreman.....	Sept. 1, 1888	58. Banta, Samuel.....	28	Private.....	Jan. 22, 1883	Assistant Foreman.	July 1, 1885
78. Farley, Thomas.....	25	{ Fireman.....	May 13, 1868	{ Assistant Foreman.	Apr. 10, 1882	59. Ryan, Patrick F.....	28	{ aa Engineer of	Nov. 1, 1871	Assistant Foreman.	July 21, 1875
		{ Fireman.....	Sept. 1, 1869	{ Foreman.....	June 1, 1883			{ Steamer.....	Sept. 6, 1874	{ Assistant Foreman.	Nov. 15, 1885
79. Murphy, Lawrence.....	24	Fireman.....	June 12, 1871	{ Assistant Foreman.	May 17, 1883			{ Ass't Engineer			
				{ Foreman.....	June 1, 1889			{ of Steamer..}			
80. Gormley, Patrick.....	28	Private.....	May 15, 1884	{ Assistant Foreman.	July 1, 1885	60. Delaney, James.....	23	Fireman.....	Aug. 1, 1869	{ Assistant Engineer	Mar. 16, 1871
				{ Foreman.....	June 6, 1889					{ of Steamer.....	Nov. 16, 1883
81. Moss, Joseph.....	28	Fireman.....	Dec. 1, 1871	{ Assistant Foreman.	Nov. 1, 1881	61. Shute, James H.....	23	Fireman.....	Oct. 17, 1873	Assistant Foreman.	Feb. 1, 1886
				{ Foreman.....	June 6, 1889	62. Burns, John J.....	21	Private.....	Aug. 17, 1883	Assistant Foreman.	Feb. 1, 1886
82. Honan, John S.....	25	Private.....	May 8, 1883	{ Assistant Foreman.	Nov. 15, 1885	63. Martin, Michael.....	26	Fireman.....	July 1, 1873	Assistant Foreman.	Dec. 1, 1886
				{ Foreman.....	Nov. 19, 1889	64. Miller, William.....	28	Private.....	Apr. 2, 1881	Assistant Foreman.	Dec. 1, 1886
83. Riordan, John.....	21	Fireman.....	Sept. 20, 1866	{ Assistant Foreman.	Nov. 1, 1871	65. Flaherty, James.....	29	Private.....	Feb. 15, 1882	Assistant Foreman.	Dec. 1, 1886
				{ Foreman.....	Nov. 19, 1889	66. Whelan, John T.....	29	Fireman.....	May 20, 1884	Assistant Foreman.	Dec. 1, 1886
Assistant Foremen.						67. Taylor, Joseph W.....	25	Fireman.....	Jan. 1, 1873	Assistant Foreman.	Mar. 1, 1887
1. Schuck, Henry.....	33	Fireman.....	Sept. 18, 1865	Assistant Foreman.	Nov. 22, 1865	68. Nash, William H.....	21	Fireman.....	Sept. 9, 1876	{ Assistant Engineer.	Oct. 1, 1876
2. Smith, Edward S.....	23	Fireman.....	Sept. 11, 1865	Assistant Foreman.	Dec. 15, 1868					{ Engineer.....	Jan. 1, 1886
3. Hicks, Matthew.....	21	Fireman.....	Aug. 10, 1868	Assistant Foreman.	Oct. 15, 1870	69. Burke, Coleman J.....	22	Private.....	Jan. 1, 1878	{ Assistant Foreman.	Feb. 1, 1887
4. Lynar, Andrew.....	28	Fireman.....	Jan. 21, 1868	Assistant Foreman.	Feb. 15, 1872					{ Assistant Engineer.	Jan. 17, 1880
5. Brennan, Terence P.....	25	Fireman.....	Oct. 6, 1865	Assistant Foreman.	July 1, 1872	70. Norris, Richard J.....	25	Private.....	July 15, 1879	{ Engineer.....	Jan. 1, 1886
6. McNamee, Charles.....	28	Fireman.....	July 1, 1869	Assistant Foreman.	Mar. 1, 1873	71. Reilly, Michael F.....	29	Private.....	Jan. 13, 1880	{ Assistant Foreman.	Feb. 1, 1887
7. Jones, Walter H.....	25	Fireman.....	Oct. 21, 1870	Assistant Foreman.	Mar. 1, 1873	72. Farrell, George F.....	25	Private.....	Nov. 1, 1880	Assistant Foreman.	Feb. 1, 1887
8. Conaghan, Patrick.....	23	Fireman.....	Oct. 20, 1865	Assistant Foreman.	Apr. 21, 1873	73. Reilly, Henry P.....	21	Private.....	Oct. 21, 1881	Assistant Foreman.	Dec. 27, 1887
9. Braisted, William C.....	25	Fireman.....	July 3, 1872	Assistant Foreman.	June 16, 1873	74. McCartney, James J.....	28	Fireman.....	Aug. 1, 1884	Assistant Foreman.	Dec. 27, 1887
10. Campbell, James A.....	27	Fireman.....	Sept. 29, 1865	Assistant Foreman.	Aug. 15, 1873	75. Naughton, John J.....	23	Private.....	Dec. 1, 1881	{ Assistant Engineer.	Feb. 2, 1883
11. Moore, Edward S.....	31	Fireman.....	Oct. 16, 1865	{ Assistant Foreman	Dec. 1, 1865					{ Engineer.....	Feb. 1, 1885
				{ Assistant Foreman.	Nov. 3, 1873					{ Assistant Foreman.	June 1, 1888
12. Louis, Albert F.	24	Fireman.....	Sept. 14, 1865	{ Assistant Engineer	Apr. 1, 1871	76. Coyle, Thomas.....	31	Fireman.....	Feb. 16, 1870	{ Assistant Foreman.	Mar. 1, 1873
				{ of Steamer.....	Sept. 11, 1872					{ Foreman.....	May 1, 1876
				{ Assistant Foreman.	Jan. 15, 1874	77. Mackey, Henry F.....	26	Fireman.....	Oct. 15, 1872	{ Fireman.....	Jan. 19, 1880
13. Burnett, Henry.....	33	Fireman.....	Sept. 22, 1865	Assistant Foreman.	Jan. 15, 1874					{ Assistant Foreman.	June 1, 1889
14. Cartright, Stephen	27	Fireman.....	Aug. 1, 1871	Assistant Foreman.	May 15, 1874	78. O'Brien, Patrick, No. 1.....	26	Fireman.....	Nov. 1, 1872	Assistant Foreman.	June 1, 1889
15. Flock, William F.....	27	Ass't Foreman...	Sept. 8, 1865	t Foreman.....	Oct. 15, 1870	79. Hanlon, Peter.....	31	Fireman.....	Feb. 13, 1874	Assistant Foreman.	June 1, 1889
16. Carey, Francis.....	25	Fireman.....	June 2, 1868	Assistant Foreman.	Dec. 21, 1874	80. Cain, Daniel L.....	27	Private.....	Dec. 23, 1880	Assistant Foreman.	June 1, 1889
17. Wright, Aug. H.....	29	Fireman.....	May 4, 1875	Assistant Foreman.	May 1, 1876	81. Sloan, Peter.....	27	Fireman.....	Oct. 26, 1881	Assistant Foreman.	June 1, 1889
18. Kruger, Charles W., Jr.....	22	Ass't Engineer of	July 3, 1872	Assistant Foreman.	Sept. 27, 1877	82. McNicol, John A.....	28	Fireman.....	Dec. 20, 1886	Assistant Foreman.	June 1, 1889
		Steamer.....				83. Slevin, Michael H.....	29	Fireman.....	Dec. 20, 1886	Assistant Foreman.	June 1, 1889
19. Kenahan, Richard F.....	30	Fireman.....	July 1, 1875	Assistant Foreman.	Apr. 3, 1878	84. Hern, John.....	23	Fireman.....	Sept. 11, 1865	Assistant Foreman.	Nov. 19, 1889
20. Finn, John.....	29	Fireman.....	Sept. 20, 1866	Assistant Foreman.	Aug. 21, 1878	85. Reilly, Lawrence J.....	25	Fireman.....	May 10, 1871	Assistant Foreman.	Nov. 19, 1889
21. McCarthy, Patrick.....	25	Fireman.....	June 15, 1872	Assistant Foreman.	Apr. 27, 1879	86. Freel, Thomas F.....	23	Private.....	July 18, 1881	Assistant Foreman.	Nov. 19, 1889
22. O'Rourke, Owen.....	25	{ u Fireman.....	Sept. 22, 1865	Assistant Foreman.	July 10, 1879	87. Farley, John.....	28	Private.....	Jan. 19, 1882	Assistant Foreman.	Nov. 19, 1889
		{ Fireman.....	Feb. 12, 1875			88. Grady, John J.....	26	Private.....	Feb. 20, 1882	Assistant Foreman.	Nov. 19, 1889
23. Browning, William.....	21	Fireman.....	Apr. 23, 1869	{ v Assistant Engi-	June 1, 1871	89. Barrett, Thomas F.....	24	Private.....	Feb. 1, 1883	Assistant Foreman.	Nov. 19, 1889
				{ neer of Steamer.	Aug. 1, 1874	90. Martin, Joseph B.....	23	Private.....	Jan. 18, 1884	Assistant Foreman.	Nov. 19, 1889
				{ Engineer of Steamer	Feb. 1, 1880						
				{ Assistant Foreman.							
24. O'Reilly, Patrick H.....	23	Fireman.....	Aug. 21, 1875	Assistant Foreman.	July 20, 1880						
25. Kerrigan, Francis.....	29	Fireman.....	May 1, 1875	Assistant Foreman.	Sept. 16, 1880						
26. McCarthy, John.....	29	Fireman.....	Sept. 15, 1871	Assistant Foreman.	June 9, 1881						
27. Gerity, James J.....	24	Fireman.....	Feb. 1, 1874	Assistant Foreman.	Nov. 1, 1881						
28. Kelly, Thomas.....	28	w Fireman.....	Sept. 18, 1865	Assistant Foreman.	Nov. 25, 1881						
		Fireman.....	June 15, 1867	Assistant Foreman.	Mar. 22, 1882						
29. Hyde, David.....	27	Fireman.....	July 17, 1873	Assistant Foreman.	Aug. 7, 1882						
30. Murphy, John.....	24	Fireman.....	Oct. 17, 1870	Assistant Foreman.	Dec. 1, 1882						
31. Aiken, Alex. D.....	24	Fireman.....	July 19, 1871	Assistant Foreman.	Feb. 1, 1883						
32. Barber, John.....	25	Fireman.....	Nov. 3, 1870	Assistant Foreman.	Mar. 4, 1883						
33. Daniels, Clement L.....	25	Fireman.....	Oct. 11, 1873	Assistant Foreman.	Mar. 6, 1883						
34. Ryan, Ed. F.....	22	Fireman.....	July 3, 1872	Assistant Foreman.	Nov. 21, 1878						
				{ Assistant Engineer	May 23, 1883						
				{ of Steamer.....							
				{ Assistant Foreman.							
35. Kennedy, Math. T.....	28	Private.....	Dec. 21, 1877	{ Assistant Engineer	May 1, 1879						
				{ of Steamer.....	May 23, 1883						
36. Margison, Charles.....	27	Private.....	Jan. 22, 1877	{ Assistant Foreman.							

q Reduced to Assistant Foreman, December 2, 1875.
r Dismissed August 10, 1869.
s Reduced to ranks, May 9, 1866.
t Reduced to Assistant Foreman, June 24, 1874.
u Discharged while detailed as Carpenter, January 1, 1875.
v Resigned, September 16, 1872.
w Resigned, September 29, 1865.

x Resigned, August 1, 1871.
aa Resigned, November 3, 1873.
y Dismissed, November 23, 1873.
bb Resigned as Foreman and assigned as Fireman.

Year of Entry into the Uniformed Force of Officers and Members in Active Service on December 31.

APPOINTED IN—	OFFICERS.	ENGINEERS.	FIREMEN.	TOTAL.
1865.....	49	9	34	92
1866.....	11	5	15	31
1867.....	1	2	1	4
1868.....	7	6	7	20

APPOINTED IN—	OFFICERS.	ENGINEERS.	FIREMEN.	TOTAL.
1869.....	9	6	17	32
1870.....	7	2	12	21
1871.....	15	2	7	24
1872.....	7	4	21	32
1873.....	15	7	41	63
1874.....	7	8	35	50
1875.....	12	7	18	37
1876.....	2	..	7	9
1877.....	6	10	3	19
1878.....	2	1	2	5
1879.....	3	7	6	16
1880.....	5	12	23	40
1881.....	10	4	30	44
1882.....	6	3	46	55
1883.....	5	10	63	78
1884.....	7	11	70	88
1885.....	..	5	30	35
1886.....	2	8	43	53
1887.....	..	5	37	42
1888.....	..	2	99	101
1889.....	..	..	11	11
	188	136	678	1,002

Number and Character of Alarms, Manner of Receipt and Cause.

ALARMS.	MANNER OF RECEIPT.					CAUSE.														
	From Department Street Alarm-boxes.	Special Department Telegraph Signals.	Verbally.	Automatic Telegraph	Total.	Accidents.	Cry of "Fire."	Error.	Exhibition of Department.	Explosions.	Fire outside of City.	Heat and Disarrangement of Aut. Telegraph.	Ignorance.	Malicious Mischief.	Not ascertained.	Reflection from Stoves, etc.	Reflection of Distant Fire.	Smoke, etc., issuing from Premises.	Fire.	Total.
Unnecessary..	42	4	11	9	66	7	1	..	3	6	..	9	9	21	10	..	..	..	...	66
Indication of fire ... }	79	4	56	..	139	..	..	..	..	..	..	..	..	..	..	24	..	115	...	139
Fires.....	1,501	12	1,312	9	2,834	..	..	..	..	..	..	..	..	..	..	..	..	..	2,834	2,834
Total...	1,621	20	1,379	18	3,039	7	1	..	3	6	..	9	9	21	10	24	..	115	2,834	3,039

251 alarms were communicated by attachés of this Department, of which 243 proved to be for fires.									
948	"	"	"	Police	"	"	913	"	"
474	"	"	"	District key-holders,	"	"	442	"	"
248	"	"	"	Citizen	"	"	229	"	"
1,118	"	"	"	all other means,	"	"	1,007	"	"
3,039	"	"	"	all the various means,	"	"	2,834	"	"

Statistics of Fires.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
In Buildings—													
Confined to point of starting	238	259	247	236	183	192	183	206	170	183	218	280	2,595
Confined to building	16	22	9	11	11	11	6	6	2	8	13	19	134
Extended to other buildings	4	2	4	2	2	1	2	..	1	3	..	2	23
Total in buildings.....	258	283	260	249	196	204	191	212	173	194	231	301	2,752
In vessels.....	2	2	3	4	1	..	1	6	1	1	..	4	25
In places other than buildings and vessels.	3	3	5	5	5	5	4	5	6	2	10	4	57
Total.....	263	288	268	258	202	209	196	223	180	197	241	309	2,834
Extinguished—													
Without engine stream	160	180	171	166	133	143	145	155	128	139	168	205	1,893
With one engine stream.....	65	66	59	60	44	47	41	40	38	40	58	70	629
With two or three engine streams.....	30	23	32	17	19	16	6	21	10	15	11	22	228
With more than three engine streams..	7	13	6	15	6	3	4	7	4	3	4	12	84
Total	263	288	268	258	202	209	196	223	180	197	241	309	2,834
Extent of damage to buildings and vessels—													
Built mainly of brick, stone or iron :													
Slight.....	84	69	78	47	38	34	9	39	39	36	39	48	560
Considerable	6	6	8	10	7	5	11	7	7	3	10	22	102
Destroyed .....	..	..	..	6	..	1	..	1	..	..	..	..	8
Total	90	75	86	63	45	40	20	47	46	39	49	70	670

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Extent of damage to buildings and vessels—													
Built mainly of wood :													
Slight.....	10	8	11	16	3	2	2	3	2	2	1	3	63
Considerable	1	..	6	2	1	..	1	1	3	5	1	1	22
Destroyed.....	..	..	..	1	2	..	..	..	..	..	1	..	4
Total	11	8	17	19	6	2	3	4	5	7	3	4	89
Total buildings and vessels damaged.....	101	83	103	82	51	42	23	51	51	46	52	74	759
To which the damage was—													
Slight.....	94	77	89	63	41	36	11	42	41	38	40	51	623
Considerable	7	6	14	12	8	5	12	8	10	8	11	23	124
Destroyed.....	..	..	..	7	2	1	..	1	..	..	1	..	12
Number of fires resulting in damage to contents only; buildings or vessels not damaged.....	36	41	32	39	36	52	53	62	49	43	44	60	547
Number of fires resulting in nominal damages (less than \$10), to either structures or contents.....	73	98	89	86	63	71	77	85	62	74	99	100	877

Number of Fires Occurring each Day of the Week, and during the Different Hours and Periods of the Day, by Months.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Monday.....	30	46	30	46	35	38	32	37	38	22	32	42	428
Tuesday.....	49	43	33	41	18	29	28	31	27	25	35	43	402
Wednesday.....	49	31	43	41	42	31	26	21	25	32	38	54	433
Thursday.....	46	48	25	46	35	24	35	31	25	31	33	39	418
Friday.....	30	46	48	26	32	30	36	39	18	40	37	47	429
Saturday.....	32	37	46	36	16	33	22	27	13	31	38	39	370
Sunday.....	27	37	43	22	24	22	17	37	34	16	28	45	354
Between the hours of—													
12 midnight and 1 a.m.....	15	13	9	5	3	5	9	7	8	2	6	13	95
1 a.m. and 2 a.m.....	8	4	7	7	10	5	1	6	4	5	7	8	72
2 a.m. and 3 a.m.....	11	6	5	5	5	5	13	3	5	..	3	..	66
3 a.m. and 4 a.m.....	8	5	4	7	5	2	4	7	3	5	5	5	60
4 a.m. and 5 a.m.....	2	3	5	3	3	3	5	3	1	10	3	4	45
5 a.m. and 6 a.m.....	6	4	7	4	6	5	1	1	5	2	4	4	49
6 a.m. and 7 a.m.....	9	8	7	3	4	1	4	3	..	6	4	4	53
7 a.m. and 8 a.m.....	4	7	6	6	4	6	3	2	5	6	2	8	59
8 a.m. and 9 a.m.....	3	15	8	3	7	4	5	8	2	8	9	10	82
9 a.m. and 10 a.m.....	8	12	13	10	6	6	8	9	6	5	10	9	102
10 a.m. and 11 a.m.....	11	13	13	14	10	9	9	4	11	9	12	7	122
11 a.m. and 12 m.....	9	9	18	15	14	10	6	9	8	13	8	12	131
12 m. and 1 p.m.....	4	14	11	8	2	14	9	6	..	12	2	7	89
1 p.m. and 2 p.m.....	8	13	12	11	5	15	11	6	11	4	9	12	117
2 p.m. and 3 p.m.....	7	20	12	7	10	12	4	8	9	6	4	14	113
3 p.m. and 4 p.m.....	15	17	10	14	13	9	7	12	7	9	12	9	134
4 p.m. and 5 p.m.....	8	15	10	6	2	4	6	13	11	10	15	26	126
5 p.m. and 6 p.m.....	34	21	15	15	7	12	7	7	6	11	25	43	203
6 p.m. and 7 p.m.....	20	21	12	28	7	11	4	18	16	17	15	28	197
7 p.m. and 8 p.m.....	19	19	29	31	15	9	14	22	18	10	21	18	225
8 p.m. and 9 p.m.....	19	18	17	23	19	25	21	16	13	7	24	25	227
9 p.m. and 10 p.m.....	19	11	11	9	16	15	26	23	14	17	17	25	203
10 p.m. and 11 p.m.....	9	10	16	14	16	12	9	14	7	9	11	8	135
11 p.m. and 12 midnight.....	7	10	11	10	13	10	18	6	12	9	16	7	129
Between 6 a.m. and 6 p.m.....	120	164	135	112	94	108	79	87	76	99	112	161	1,347
Between 6 p.m. and 6 a.m.....	143	124	133	146	108	101	117	136	104	98	129	148	1,487
Total.....	263	288	268	258	202	209	196	223	180	197	241	309	2,834

Notable Fires.

January 23.—Nos. 88 and 90 Walker street, a seven-story brick building, 50 x 100 feet, occupied by manufacturers and dealers in stamps, dies, jewelry, novelties, lithographs, etc. The fire originated on the second floor, and its extension to the third, fourth, fifth, sixth and seventh floors and the roof, was greatly facilitated by the belt holes in the flooring. The building was considerably damaged. The first alarm was received at 11.58½ P. M., and second and third alarms were sent out at 12.14 and 12.25 A. M., respectively, on the 24th instant, and a special call for Engine Company No. 18 at 1.18 A. M. The fire required the services of thirteen engine and four hook and ladder companies and one water tower, and was under control in one hour and ten minutes. The cause of the fire was heat from steam-pipes igniting oily rags, and the loss amounted to \$67,950.

March 15.—No. 85 Gold street, a five-story brick building, 40 x 60 feet, occupied by leather dealers. The fire originated on the third floor and extended to the fourth and fifth floors by hoistways and stairways, considerably damaging the building. The first alarm was received at 6.47½ P. M., and the second and third alarms were sent out at 6.54 and 7.01 P. M., respectively. The fire required the services of eleven engine and four hook and ladder companies and one water tower, and was under control in fifty minutes. The cause of the fire was not ascertained, and the loss amounted to \$76,200.

April 19.—Fifty-ninth street and Twelfth avenue, a five-story brick building, 150 x 200 feet, divided by a wall through the centre. The front (or Fifty-ninth street) half was occupied as a lard refinery and rendering establishment, and the rear as a storehouse for general merchandise. The Chief of Department made a special report of the operations at this fire to the following effect : The fire originated in the lard refinery, and owing to the nature of the contents, and to the greasy condition of the building itself, resulting from the business carried on therein, spread with great rapidity ; in fact the entire structure was on fire before the arrival of the force in response to the first alarm, received by the Department at 3.40½ o'clock P. M. from fire-alarm box at Sixtieth street and Twelfth avenue.

The first company (Engine 23), located at Fifty-eighth street, near Broadway, reached the scene of the fire in about three minutes after the alarm, and its commanding officer at once sent out

a third alarm, which was succeeded by special calls at various times for six engine companies. The fire-boat "Havemeyer," the police-boat "Patrol," the Charities and Correction boat "Thomas S. Brennan," as well as a number of railway company tugs known to be provided with fire-pumps were summoned. The building in which the fire originated stood at the only entrance to the grounds occupied by the New York Central Railroad Company, extending from Fifty-ninth to Seventieth street, and from Eleventh avenue to the river, a width of one thousand feet. Within these limits were two immense grain elevators, designated as A and B, and four covered piers, two stories high, about one hundred by five hundred feet in area, used for freight storehouses. There were also coal sheds, trestles and pockets, stock yard cattle pens, a large round-house for locomotives, and a pier at the foot of Fifty-ninth street. The entire area is supplied with water by a six-inch pipe, having attached to it eight hydrants, used for all purposes, but supposed to furnish a sufficient supply for fire protection. In fact, however, one engine will exhaust about all the water that the pipe can furnish. There were three fire-engines within the inclosure, one of which was attached to a hydrant while two used their suction at the bulkhead. Elevator A was three hundred and fifty-four feet long, one hundred feet wide and one hundred and fifty feet high. Elevator B was three hundred and twenty-six feet long, seventy-six feet wide, and one hundred and thirty-one feet high, and, both together, contained at the time one hundred and thirteen thousand bushels of grain.

The wind was blowing from the southeast and carried the intense heat from the burning lard building in the direction of the Fifty-ninth street cattle pier and Elevator A, which latter soon took fire at the peak of the roof where it was impossible to reach it. The heat from the fire in this building, in like manner, communicated to Elevator B, and from Elevator B to the storehouse on pier D. At this point a stubborn fight was made by the fire-extinguishing force, but, as it was exposed for its entire length on the south to the fire raging in Elevator B, it was communicated to the under part of the pier and compelled the temporary retirement of the firemen therefrom. The force was then concentrated on the next pier and, after a very desperate struggle, it was checked at that point by the force there engaged, consisting of three land engines, the fire-boat "Havemeyer," and the chartered boat "John Fuller," the Brooklyn Fire Department boat "Seth Low," and six or eight tugs. The Police boat "Patrol" did not respond to the call, and it is understood that it was out of service undergoing repairs. The Charities and Correction steamer "Thomas S. Brennan" was seen in the vicinity of the fire, but did not engage in the work of extinguishment, presumably because of its large wooden upper works, which renders it useless for fire service.

The fire was under control in about six hours from the time of its origin. During the fire the fire-boat "Havemeyer" (Engine 43), stopped work for want of steam, and the men in charge could not explain the reason, except that in adding fresh fuel the steam pressure suddenly dropped and it required some time to regain it. On the south and easterly sides, and where the fire originated at the Fifty-ninth street end, there were eleven engine companies at work, which prevented the fire from spreading in those directions. The fire-boat "Zophar Mills" (Engine 51), the most powerful fire-boat, was necessarily out of service undergoing repairs which had been ordered by the United States government inspectors.

It is upon record that to provide for just such emergencies the Board of Estimate and Apportionment has, for the last three years, been asked for an appropriation to build an additional boat, the necessity for which had been clearly and emphatically stated. These demands were, however, disregarded, and no appropriation was made for the purpose until last December, thus necessitating the postponement of repairs to both the "Mills" and "Havemeyer," and delaying the preparations for building the new boat until the present time. The Department had to contend with many impediments in combating this fire. The buildings on fire were about one thousand feet from the fire hydrants, and very long lines of hose were therefore required to reach it, thus materially diminishing the supply of water at the pipes. The fact that none of the streets above Fifty-ninth street extend beyond Eleventh avenue, and that the entire space from there to the river was covered with cattle pens, railroad tracks and freight cars, made it impossible to use the force to advantage on the south side of the fire except as above stated, at Fifty-ninth street. If it had been possible to use more companies at the northern end of the fire, they would have been called; but as it was recognized that they would be of no service, it was not deemed proper to uncover more of the city, especially as another fire was burning in the lower part of the city, for which a second alarm had been sent at the time. The successful checking of the fire at the northern end was due mainly to the fire-boats, which were nevertheless compelled to abandon their positions several times because of the intense heat and smoke. The suggestion was made by the Chief of Department that, in the event of application to rebuild the burned structures, permission be withheld until bridges are built over the inclosures from Eleventh avenue to the river whereon water-pipes could be laid and hydrants thus be located in the vicinity of the buildings, and the apparatus of the Department be enabled to reach the same and be of some service in case of fire.

Upon this report the President made the following indorsement:

"From what I saw on the night of the fire and from a careful inspection of the burned district, since made, I am of the opinion that the forces of this Department were handled by Chief Shay with excellent judgment and to the very best advantage. The situation was such that the extinguishment of the conflagration had to depend almost entirely upon our fire-boats. By reason of the non-action of former Boards of Apportionment this Department has been forced to keep both fire-boats in service much longer than it would otherwise have done. One of these boats was, at the time of the fire, necessarily out of service and was replaced by a hired boat, the best that could be obtained, but much inferior to the "Zophar Mills" in power, while the other boat had been just returned from the repair yard, and, being partly new, did not act under the great strain as well as was expected.

"If the repeated and urgent requests of the Department, dating back to 1886, for an appropriation for an additional floating engine had been heeded when made, the amount of such appropriation would have been saved at this fire many times over in the decrease of loss, which would undoubtedly have been the result.

"In accordance with the recommendation of the Chief of Department, directions should be given to the Superintendent of Buildings to immediately notify the Board of Fire Commissioners, upon receipt of any proposition to rebuild within the burned district the structures which formerly stood there, in order that, as a condition precedent to such rebuilding, the Commissioners may impose conditions calculated to make the premises easily accessible to the land forces of the Department."

The cause of the fire was not ascertained and the estimated loss was \$1,427,741.

June 14.—No. 33 Norfolk street, a six-story brick tenement building, 25 x 80 feet, occupied by twenty-two families. The fire originated on the second floor and the first alarm therefor was received at 6.20 p. m. The first company (Engine 17), arrived in about two minutes after the alarm was received and found the fire extending up the stairway and over all the apartments to the roof. The building was provided with fire-escapes on both front and rear; but notwithstanding this, the bodies of a woman and a child (Mrs. Kelickman, aged 70, and Esther Goldberg aged 2), were found on the third floor after the fire was extinguished, having undoubtedly been overcome by the smoke and heat while endeavoring to escape before the arrival of the force. There was evidently a great delay in sending out the alarm, as Hook and Ladder 18, located in Attorney street, near Delancey, had received a verbal alarm and was preparing to respond when the telegraphic alarm was received, while the Chief of the Fourth Battalion reports that upon his arrival, but four minutes after the alarm, he found that the fire had extended throughout the entire building, from the second story to the roof. Subsequently second and third alarms were sent out. The services of seven engine and four hook and ladder companies were required to extinguish the fire, and it was under control in about one hour. Three engine companies reported no water pressure on the hydrants used by them, and the reports of all the companies showed a very deficient supply of water. The services of one of the companies were rendered entirely useless because of its failure to obtain water. The fire was caused by a kerosene-oil stove taking fire, and resulted in an estimated loss of \$8,950.

August 14.—No. 72 Warren street, a five-story brick building, 25 x 75 feet, occupied as a printing and lithographing establishment. The fire originated on the fifth floor and damaged the building slightly. The first alarm was received at 3.30 a. m., and at 3.38 and 3.42 a. m., respectively, second and third alarms were sent out followed by special calls for two engine companies.

The fire required the services of nine engine and three hook and ladder companies and one water tower and was under control in one hour. The cause was spontaneous combustion and the estimated loss was \$70,275.

December 7.—Pier 39, North river, foot of Houston street, a two-story frame structure, 80 x 550 feet, occupied by the National Line Steamship Co. for storing merchandise, etc. The fire originated on the second floor, considerably damaging the pier. The first alarm was received at 1.18 p. m., and at 1.29 and 1.40 p. m., respectively, second and third alarms were sent out. Special calls were sent for two hook and ladder companies, and the services of twelve engines (including both the floating engines and five hook and ladder companies) were required, and the fire was under control in two hours. Four of the employees working on the pier were overcome by heat and smoke, and died from suffocation before the arrival of the department force, while endeavoring to extinguish the fire, the alarm for which was not promptly sent out. The estimated loss was \$55,868, and the cause was not ascertained.

December 8.—No. 36 East Fourteenth street, a five-story brick building, 40 x 100 feet, occupied by stationers and dealers in silverware, etc. The fire originated in the basement and extended throughout the building, by stairways and elevator, damaging it considerably. The first alarm was received at 10.18 a. m., and on the arrival of the first part of the force the fire was found coming out of all of the windows from the first to fifth floors on the south end of the building. At 10.20 and 10.21 a. m., respectively, second and third alarms were sent out; special calls were also sent out for six engine companies. The fire required the services of fourteen engine and three hook and ladder companies and one water tower and was under control in one hour. The estimated loss was \$88,800, and the cause was imperfect insulation of electric-light wires on basement ceiling.

December 19.—South side of Seventy-first street, between Madison and Fourth avenues, a four-story brick building, 200 x 50 feet, known as the Presbyterian Hospital. The fire originated over

the fourth floor, and extended throughout the attic to the roof, considerably damaging the building. The first alarm was received at 7.48 o'clock p. m., and on the arrival of the first companies the fire was found to be issuing from all parts of the roof, showing that there was considerable delay in sending out the alarm, and the third alarm was immediately sent out. Special calls were also sent out for six engine and one hook and ladder company. The fire required the services of thirteen engine and four hook and ladder companies, and was under control in two hours. The building was equipped with stand-pipes and hose connections on the east and west sides, for which the supply of water was received from two tanks located in the attic. The valve on the supply-pipe, located near the tank, was shut off on the night of the fire, and no water could be obtained from this source, although needed at a time when the air registers throughout the building were discharging burning cinders from the fire in the attic and on the floors below in many of the wards. The estimated loss was \$25,000, and the cause of the fire was not ascertained.

December 31.—Nos. 129 and 131 Crosby street, a seven-story brick building, 50 x 100 feet, occupied by manufacturers and dealers in novelties of various kinds, plush jewelry cases, typewriting machines, etc. The fire originated on the fifth floor, and extended by an extra open stairway and shut to the sixth and seventh floors, considerably damaging the building. It also extended to the adjoining building on Jersey street, through openings in party wall, made for sprinkler pipes and shafting. The first alarm was given at 9.45 o'clock p. m. by Fireman Wrenn, of Engine 20, who saw the light of the fire from the front of his company's quarters. On the arrival of that company the fire had such headway that a second alarm was immediately sent out, and this was followed at 9.55 o'clock p. m. by a third alarm. Special calls were also sent out for four engine companies. The fire required the services of thirteen engine and four hook and ladder companies and one water-tower, and was under control in one hour. The amount of the loss was estimated at \$70,500, and the cause of the fire was not ascertained.

Water Consumption.

As nearly as can be estimated 16,821,750 gallons of water were used by the land engines of the Department in extinguishing fires, including the quantity taken from the rivers; and in addition thereto an estimated quantity of 14,913,000 gallons of river water was used by the two floating engines, making an aggregate of 31,734,750 gallons.

Meritorious Services.

The following rescues at fires and elsewhere, involving personal risk, were reported and recorded on the Roll of Merit.

Fireman William Reilly, of Engine Company No. 24, rescued Mr. Enoch Wilkins, aged 65, from the roof of the burning building, No. 102 Barrow street, on April 11. Upon the arrival of the company at the scene of the fire, Fireman Reilly saw a person getting out of one of the dormer windows of the building and lie down on the eaves of the roof. Reilly quickly made his way to the roof through the adjoining house, and crawled along the narrow eaves until he reached the person, who proved to be Mr. Wilkins, and assisted him along the eaves to the adjoining house, which by that time had become so much charged with smoke and hot air as to make it impossible for the policemen on the floor below to render any assistance. Reilly then took Mr. Wilkins on his back and, with much difficulty finding the stairway, carried him safely to the street. It is considered that Fireman Reilly's courageous and prompt action was attended with unusual hazards, from the fact that there was no other way of reaching the person rescued than along the eaves, which were old and very insecure, and also because Mr. Wilkins was so much of an invalid as to be very helpless.

Fireman Patrick J. Brennan, of Engine Company No. 51 (floating engine "Zophar Mills"), rescued John Besch, a boy twelve years of age, and Fireman James McCleavey, of Hook and Ladder Company No. 8, rescued Joseph Stoderd, a boy fourteen years of age, from drowning at the foot of West Thirteenth street, on June 4. These rescues were accomplished by Firemen Brennan and McCleavey at the risk of their own lives by jumping overboard, the boys having been accidentally knocked off the pier and were struggling helplessly in the water.

Fireman Abraham Storm, of Engine Company No. 48, while on leave of absence on July 27, hearing a cry for help proceeding from the premises on the southwest corner of One Hundred and Seventy-third street and Webster avenue, immediately responded to it, and on arriving there found that James Sullivan, aged fifteen, had been suffocated by foul gases in a newly excavated well and that Patrick Doyle, aged twenty-eight (an employee of this Department), had met the same fate while endeavoring to rescue Sullivan. Fireman Storm believing that they might still be alive, at the risk of his own life adjusted a rope around the bodies of Sullivan and Doyle, by means of which they were brought to the surface.

Fireman Thomas F. Freely, since promoted to be Assistant Foreman, of Engine Company No. 43 (floating engine "William F. Havemeyer"), on September 1, while the boat was lying at its pier at the foot of Clinton street, East river, hearing cries for help from Frederick Zanter, a man who had fallen off an adjoining pier and had been carried out by the strong tide about 200 feet, promptly jumped overboard to his rescue. After a long and exhaustive struggle Fireman Freely succeeded in reaching the boat with the man whom he had so heroically rescued at the risk of his own life.

Engineer of Steamer William Purdy of Engine Company No. 51 (floating engine "Zophar Mills") and Lineman Andrew Murray of the Fire Alarm Telegraph rescued a boy, John Cain, from drowning on November 20, under the following circumstances: The boy had fallen into the river from the pier at the foot of West Thirteenth street, at which the floating engine is moored, and he had been carried by the current under the pier when Lineman Murray jumped into the water and reaching the boy caught hold of a pile but was powerless to do more. Engineer Purdy then jumped overboard, took the boy from Lineman Murray and swam with him to a scaling ladder and thence ascended to the pier.

The Bennett and Stephenson Medals.

These medals were awarded for the past two years, as follows:

To Assistant Foreman Samuel Banta, of Hook and Ladder Company No. 10, the Bennett Medal for the year 1887, for meritorious services recorded in the report for that year, as follows:

During the progress of a fire in the basement of No. 84 Park place, on January 22, Fireman 1st grade Francis J. Quinn, who was directing his company's pipe on the stairway leading to the basement, was overcome by the heat and smoke and fell headlong into the cellar. Assistant Foreman Banta and Fireman 2d grade William Harrigan, of Hook and Ladder Company No. 10, and Fireman 1st grade James Rehill, of Hook and Ladder Company No. 8, in endeavoring to bring him up, were driven out by the smoke and flames. Under cover of two streams of water they again descended, and, although exhausted themselves, succeeded in bringing Fireman Quinn up to the sidewalk. There being no windows or openings in the rear wall for the escape of the flame and smoke, the entrance from the front was extremely perilous, and but for the prompt and courageous action of Assistant Foreman Banta and Firemen Rehill and Harrigan, Fireman Quinn would have been suffocated.

To Foreman William Quirk, of Engine Company No. 49, the Bennett Medal for the year 1888, for meritorious services recorded in the report for that year, as follows:

Assistant Foreman William Quirk, of Engine Company No. 22, on March 19, at 6.53 a. m., at the fire which occurred in the five-story building, No. 38 East Eighty-fifth street, at the corner of Madison avenue, rescued three members of the Westlake family, under the following-described circumstances:

Assistant Foreman William Quirk (at the time commanding the company) himself took a scaling ladder, with it reached the fourth floor and placed it in a window of the fifth floor. Under his direction the two men (Frederick and Isaac Westlake) descended upon it to the fourth floor. At this time the flames burst out of all the windows of the third floor and prevented further descent by ladder. In the meantime Hook and Ladder Company No. 13 had arrived in response to the telegraphic (box) alarm, and as it was impossible to make use of its extension ladder in time, the life-saving net was resorted to, being held by the few available firemen, aided by a number of citizens. After Miss Westlake, who had been compelled to remain on the fifth floor, and her two brothers on the fourth floor, had, under Assistant Foreman Quirk's direction and instruction, successively jumped and been safely caught in the net, Assistant Foreman Quirk also jumped, and although caught in the net, he unfortunately bounded out of it, and falling upon the pavement broke an arm; the others sustained no injuries except those due to shock and slight burns. There can be no doubt that the lives of all would have been lost but for the prompt use of the life-saving net. Mrs. Westlake, the mother of the family, was killed by suffocation at the window of the fifth floor before she could be reached.

The Chief of Department stated in his report that the action of Assistant Foreman Quirk was one of the bravest and most meritorious that had ever been performed by a fireman in the service, and that notwithstanding the caution by Foreman Donohue (who attempted to follow him with a scaling ladder, and had to abandon it), to come down, as the flames were coming out of the windows beneath him and that his escape would thus be surely cut off, Quirk resolutely refused to abandon his undertaking to reach the imperiled persons above him.

The Commissioners adopted the following resolution, which explains itself:

"Resolved, That as a slight reward of the heroism displayed by Assistant Foreman William Quirk, of Engine 22, in recently helping to save four lives at the risk of his own, and also as an additional evidence to the uniformed force that signal bravery will not be passed by unrecognized, the Fire Commissioners do hereby, subject to civil service examination, promote said William Quirk to the position of Foreman, and direct that upon his recovery from his injuries he be assigned to the command of Engine 49, on Blackwell's Island."

Having subsequently been duly examined and passed, Assistant Foreman Quirk was, in accordance with the resolution, promoted to the grade of Foreman on September 15.

The presentation of these medals was made on the plaza, at Union Square, on the afternoon of May 4, in the presence of a large number of spectators. At the same time an exhibition drill of the Life Saving Corps was given, and the ceremonies were concluded with a review of a brigade of the Department, paraded for the purpose.

The company drills and instruction commenced in 1888, as noted in the report for that year, were continued during the past year, and the Instructors' rating at the close of the year was as follows:

Second Class—Found deficient: Engine Companies Nos. 2, 9, 17, 18, 19, 22, 23, 28, 35, 36, 37, 38, 40, 42, 45, 46, 47, 48, 50, 52 and 53. Hook and Ladder Company No. 19, and Engine Companies Nos. 48, 50 and 52 as Hook and Ladder Companies.

The Deputy Chief of Department in charge reports that these drills have been of great advantage to the service in thoroughly familiarizing the officers and men with the practical use of the various implements, and that observation of their practical work at fires has demonstrated the value of the instruction given. He concurs in the recommendation, made in another part of this report, that in view of the character of the immediate surroundings of the present drill yard, in rear of the Headquarters building, steps be taken to procure a location for this purpose on the river front, where the supply of water for engine tests would be unlimited, and the annoyance now complained of by the neighborhood would be reduced to a minimum.

The number of human lives lost and persons injured at fires, and in responding to alarms for fires, are reported as follows :

The Chief of Department's report of the semi-annual inspection of hotels in July, required by chapter 720, Laws of 1887, showed that 282 hotels were inspected, of which number 85 had not complied with the law. The report was duly forwarded to the Mayor.

* Including about 400 volunteer firemen.
 † Estimate based on report of Superintendent of Buildings.
 ‡ Annexation of territory north and east of Harlem river.
 || As per enumeration.
 ¶ As estimated by the publishers of the City Directory.
 *¶ As estimated by the Bureau of Inspection of Buildings.

† Estimate based on census of 1865.

	JANUARY.	FEB.	MARCH.	APRIL.	MAY.	JUNE.	JULY.	AUGUST.	SEPT.	OCTOBER.	NOV.	DEC.	YEAR.	PERCENTAGE TO WHOLE NUMBER OF FIRES.	LOSS LESS THAN—
Nominal or less than \$10.....	75	98	93	89	68	74	79	86	64	75	105	103	1,009	.35	
Between \$10 and \$50.....	63	57	43	61	51	68	49	48	58	53	60	63	674	.23	\$50 at 1,683 fires.
“ 50 “ 100.....	25	21	26	28	19	10	22	18	16	16	20	32	253	.08	100 at 1,936 “
“ 100 “ 1,000.....	69	75	73	48	38	38	31	45	30	44	37	73	601	.21	1,000 at 2,537 “
“ 1,000 “ 5,000.....	23	28	23	21	16	13	10	18	7	3	12	20	194	.06	5,000 at 2,731 “
“ 5,000 “ 10,000.....	6	2	5	4	5	4	2	6	2	4	4	3	47	.01	10,000 at 2,778 “
“ 10,000 “ 20,000.....	1	4	2	3	2	1	..	1	3	1	2	7	27		20,000 at 2,805 “
“ 20,000 “ 30,000.....	..	1	1	1	1	..	1	..	..	1	..	3	9		30,000 at 2,814 “
“ 30,000 “ 40,000.....	..	1	1	..	..	..	..	..	..	..	1	..	3		40,000 at 2,817 “
“ 40,000 “ 50,000.....	..	1	..	..	..	..	2	..	..	..	..	1	4		50,000 at 2,821 “
“ 50,000 “ 60,000.....	..	..	..	..	1	1	..	..	..	..	..	1	3		60,000 at 2,824 “
“ 60,000 “ 70,000.....	1	..	..	2	..	..	..	..	..	..	..	..	3		70,000 at 2,827 “
“ 70,000 “ 80,000.....	..	..	1	..	..	..	..	1	..	..	..	1	3		80,000 at 2,830 “
“ 80,000 “ 90,000.....	..	..	..	..	1	..	..	..	..	..	..	1	2		90,000 at 2,832 “
“ 90,000 “ 100,000.....	..	..	..	..	..	1	..	..	..	..	..	..	1		100,000 at 2,833 “
Over 1,000,000.....	..	..	..	1	..	..	..	..	..	..	..	..	1		1,500,000 at 2,834 “
Total.....	263	288	268	258	202	210	196	223	180	197	241	308	2,834		

Origin and Cause of Fires, with Loss.

ORIGIN.	CAUSE.							PREMISES WHEREIN FIRE ORIGINATED OCCUPIED AS—														Aggregate Loss to Structures and Contents.	
	Accidental.	Carelessness.	Defective Building and Construction.	Mischievousness.	Maliciousness.	Incendiarism.	Not Ascertained.	Total.	Dwellings.	Mercantile Establishments.	Manufactories and Workshops.	Offices.	Restaurants and Saloons.	Storehouses.	Stables.	Places of Amusement and Recreation.	Religious and Educational Institutions.	Lumber, Coal and Wood Yards.	Piers, Docks, etc.	Vessels.	Miscellaneous.		Total.
In Heating.																							
Beams built into chimneys, and fireplaces.....	..	..	4	..	..	..	..	4	3	..	..	..	..	..	..	..	I	..	..	..	..	4	\$1,510
Chimneys, fireplaces, flues, grates, etc. ....	..	..	52	..	..	..	..	52	34	8	6	..	I	..	..	I	2	..	..	..	..	52	25,716
Foul chimneys .....	..	137	..	..	..	..	..	137	129	3	I	I	2	..	..	..	I	..	..	..	..	137	12
Kerosene oil and benzine used in lighting fires.....	I	5	..	..	..	..	..	6	4	I	I	..	..	..	..	..	..	..	..	..	..	6	335
Kerosene-oil stove taking fire... {	I	..	..	..	..	..	..	I	..	..	..	..	..	..	..	..	..	..	..	..	I	I	10
Soot in flues and fireplaces igniting woodwork.....	2	56	..	..	..	..	..	58	46	4	5	..	3	..	..	..	..	..	..	..	..	58	7,773
Sparks from stoves, chimneys, stove-pipes, etc., igniting woodwork, clothing, etc.....	22	16	..	..	..	..	..	38	29	I	4	..	I	..	..	..	..	I	..	I	..	38	15,744
Steam-pipes igniting floor beams, woodwork, etc.....	3	2	..	..	..	..	..	5	3	..	2	..	..	..	..	..	..	..	..	..	..	5	68,295
Stoves, boilers, furnaces, stove and heater pipes igniting bedding, clothing, woodwork, etc.....	47	90	..	..	..	..	..	137	96	12	17	2	7	..	I	..	..	..	..	I	I	137	72,844
Stoves, furnaces and grates, hot coals falling from.....	18	6	..	..	..	..	..	24	16	I	6	..	..	..	..	..	..	..	..	I	..	24	4,479
Stoves upsetting.....	2	..	..	..	..	..	..	2	I	..	I	..	..	..	..	..	..	..	..	..	..	2	10
Water-back of range bursting.... {	I	..	..	..	..	..	..	I	I	..	..	..	..	..	..	..	..	..	..	..	..	I	15
Total number of fires.	97	312	56	..	..	..	..	465	362	30	43	3	14	..	2	I	4	I	..	3	2	465	
Total loss	\$36,382	\$133,248	\$27,226	..	..	..	..	\$196,856	\$66,054	\$23,315	\$101,437	\$100	\$4,390	..	\$50	\$10	\$1,335	\$10	..	\$140	\$15	..	\$196,856
In Illuminating.																							
Electric lights, sparks from	55	..	..	..	..	..	..	55	5	13	15	..	4	..	..	4	..	..	..	..	3	55	\$122,547
Gas, explosion of.....	2	..	..	..	..	..	I	3	..	I	I	..	..	..	..	..	..	..	..	..	I	3	375
Gas escaping and igniting.....	20	28	..	..	..	..	I	49	24	4	7	I	5	..	2	I	I	..	..	..	4	49	17,767
Gas-lights, candles, lamps, etc., igniting merchandise in stores, show-windows, and bedding, straw, woodwork, rubbish, etc	34	277	..	..	..	..	..	311	229	39	22	2	7	..	4	7	I	..	..	..	..	311	53,230
Lamps, kerosene-oil, breaking.... {	3	I	..	..	2	..	..	6	6	..	..	..	..	..	..	..	..	..	..	..	..	6	53
Lamps, kerosene-oil, exploding... {	154	4	..	..	..	..	..	158	138	4	10	I	I	..	I	..	..	..	..	2	I	158	33,653
Lamps, kerosene-oil, falling..... {	37	21	..	..	..	..	..	58	49	3	4	..	I	..	..	..	..	..	..	I	..	58	8,567
Lamps, kerosene-oil, upsetting.. {	12	16	..	..	..	..	..	28	22	..	2	..	..	..	I	..	..	..	..	2	..	28	1,117
Lamps, kerosene-oil, taking fire.. {	5	..	..	..	..	..	..	5	4	..	I	..	..	..	..	..	..	..	..	..	..	5	133
Matches, lighted tapers, etc., igniting clothing, woodwork, rubbish, etc.....	3	135	..	..	..	..	..	138	94	20	14	I	I	..	6	..	..	..	..	..	138	105,242	
Total number of fires..	325	482	..	..	2	..	2	811	571	84	76	10	26	..	14	12	2	..	..	5	11	811	
Total loss.....	\$219,607	\$122,739	..	..	\$3	..	\$335	\$342,684	\$99,056	\$81,843	\$143,883	\$3,192	\$5,428	..	\$7,967	\$5	\$370	..	..	\$900	\$40	..	\$342,684
In Manufacturing and Other Business.																							
Alcohol, tar, gum, oils, paints, varnish, etc., igniting on stoves, furnaces, over gas-lights, etc. {	32	3	..	I	..	..	..	36	6	5	13	..	6	..	I	..	..	..	..	..	5	36	\$28,087
Beams running into chimneys.... {	..	..	5	..	..	..	..	5	..	..	5	..	..	..	..	..	..	..	..	..	..	I	5
Chemicals, explosion of	I	..	..	..	..	..	..	I	..	I	..	..	..	..	..	..	..	..	..	..	..	I	6,600
Charcoal fire igniting woodwork. {	..	3	..	..	..	..	..	3	..	I	2	..	..	..	..	..	..	..	..	..	..	3	250
Chimneys, flues, etc., heat from igniting woodwork.....	..	2	4	..	..	..	..	6	..	..	6	..	..	..	..	..	..	..	..	..	..	6	12,300
Foul chimneys.....	..	10	..	..	..	..	..	10	3	..	7	..	..	..	..	..	..	..	..	..	..	10	
Friction of machinery.....	17	..	..	..	..	..	..	17	..	I	14	..	..	..	..	..	..	..	..	I	I	17	16,850
Gas-engine, heat from, igniting woodwork.....	I	..	..	..	..	..	..	I	..	..	I	..	..	..	..	..	..	..	..	..	..	I	
Gas stoves, gas-lights, igniting woodwork, paper, merchandise, etc.	6	5	..	..	..	..	..	11	I	5	4	..	I	..	..	..	..	..	..	..	..	11	9,405
Hams, meats, etc., in ovens and smoke-houses igniting.....	5	..	..	..	..	..	..	5	..	I	4	..	..	..	..	..	..	..	..	..	..	5	1,640
Hot metals igniting woodwork, merchandise, etc.....	I	2	..	..	..	..	..	3	..	..	3	..	..	..	..	..	..	..	..	..	..	3	11,350
Kerosene-oil stoves bursting, taking fire, etc.....	2	..	..	..	..	..	..	2	..	I	I	..	..	..	..	..	..	..	..	..	..	2	40
Lamp, alcohol, upsetting..... {	I	..	..	..	..	..	..	55	55	..	..	..	..	..	..	..	..	..	..	..	..	I	55
Lime, slaking of.....	4	..	..	..	..	..	..	4	2	I	..	..	..	..	..	..	..	..	..	..	I	4	
Naphtha and benzine vapor igniting.....	5	12	..	..	..	..	..	17	2	5	10	..	..	..	..	..	..	..	..	..	..	17	18,180
Phosphorus igniting.....	3	..	..	..	..	..	..	3	..	2	I	..	..	..	..	..	..	..	..	..	..	3	
Soot in stove-pipes, fire-places, chimneys, etc., igniting.....	..	I	..	..	..	..	..	I	I	..	..	..	..	..	..	..	..	..	..	..	..	I	375
Scenery in theatres igniting from gas-lights, etc.....	2	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	2	
Sparks from chimneys, forges, furnaces, engines, steamships, locomotives, etc., igniting roofs, shavings, woodwork, etc.	96	21	..	..	..	..	..	117	11	22	52	2	9	..	..	I	2	I	..	3	14	117	34,802
Steam pipes igniting merchandise {	I	5	..	..	..	..	..	6	..	I	5	..	..	..	..	..	..	..	..	..	..	6	2,375

ORIGIN.	CAUSE.							PREMISES WHEREIN FIRE ORIGINATED OCCUPIED AS—															Aggregate Loss to Structures and Contents.	
	Accidental.	Carelessness.	Defective Building and Construction.	Mischiefousness.	Maliciousness.	Incendiarism.	Not Ascertained.	Total.	Dwellings.	Mercantile Establishments.	Manufactories and Workshops.	Offices.	Restaurants and Saloons.	Storehouses.	Stables.	Places of Amusement and Recreation.	Religious and Educational Institutions.	Lumber, Coal and Wood Yards.	Piers, Docks, etc.	Vessels.	Miscellaneous.	Total.		
Spontaneous combustion of oily rags, etc.	11 \$114,995	17 \$8,420	..	..	..	..	..	28 \$123,415	2 \$2,000	4 \$6,655	20 \$114,550	..	..	1 \$200	..	..	..	..	..	1 \$10,000	..	28 \$123,415		
Stoves, boilers, furnaces, ovens, etc., igniting merchandise, shavings, etc.	29 \$150,642	12 \$2,850	..	..	..	..	..	41 \$153,492	4 \$1,060	2 \$35	27 \$142,130	1 \$255	1 \$5	..	1 \$5	..	..	1 \$2	..	3 \$10,000	1 \$5	41 \$153,492		
Stoves, furnaces, etc., hot coals falling from.	14 \$15,690	11 \$435	..	..	..	..	..	25 \$16,125	5 \$250	..	14 \$7,515	..	5 \$8,360	..	..	..	..	..	..	..	1 \$5	25 \$16,125		
Workmen burning rubbish	..	4	..	..	..	..	..	4	1	2	..	..	..	..	..	..	..	..	..	..	1	4		
Total number of fires.....	231	108	5	1	..	..	..	345	39	54	185	3	22	1	2	3	2	2	..	8	24	345		
Total loss.....	\$364,483	\$58,610	\$12,255	..	..	..	..	\$435,348	\$3,842	\$26,682	\$362,390	\$270	\$12,672	\$200	\$10	\$10	\$5	\$5,002	..	\$24,000	\$265	..	\$435,348	
Miscellaneous.																								
Benzine, naphtha, etc., vapor igniting.	4 ..	9 \$890	..	..	..	..	..	13 \$890	9 \$855	2 \$25	1 ..	..	..	..	1 \$10	..	..	..	..	..	..	13 ..	\$890	
Beam built into flue igniting.	..	..	1 \$300	..	..	..	..	1 \$300	..	..	1 \$300	..	..	..	..	..	..	..	..	..	..	1 ..	300	
Bonfires.	..	1 \$3,725	..	14 \$124	..	..	..	15 \$3,849	..	..	4 \$3,759	..	..	..	2 \$25	..	..	..	..	..	9 \$65	15 ..	3,849	
Clothing igniting from lighted torch.	..	..	..	..	1 \$3	..	..	1 \$3	1 \$3	..	..	..	..	..	..	..	..	..	..	..	..	1 ..	3	
Cigars, pipes, etc., smoking of.	5 \$50	178 \$85,387	..	..	..	..	..	183 \$85,437	55 \$4,252	32 \$28,779	46 \$22,006	8 \$4,437	17 \$2,775	2 \$19,487	8 \$892	4 \$785	..	1 \$5	3 \$239	3 \$1,275	4 \$505	183 ..	85,437	
Defective flues and chimneys.	..	..	8 \$1,860	..	..	..	..	8 \$1,860	5 \$1,250	1 \$450	1 \$150	1 \$10	..	..	..	..	..	..	..	..	..	8 ..	1,860	
Explosion of dynamite.	..	..	..	1 \$25	..	..	..	1 \$25	..	..	1 \$25	..	..	..	..	..	..	..	..	..	..	1 ..	25	
Fat, glue, varnish, etc., taking fire on stoves, etc.	18 \$680	5 \$90	..	..	..	..	..	23 \$770	23 \$770	..	..	..	..	..	..	..	..	..	..	..	..	23 ..	770	
Firecrackers.	..	9 \$100	..	1 \$30	3 \$75	..	..	13 \$205	3 \$110	2 \$40	4 \$5	1 \$10	3 \$40	..	..	..	..	..	..	..	..	13 ..	205	
Fireworks, rockets, etc.	4 \$60	8 \$490	..	..	..	..	..	12 \$550	5 \$515	1 \$10	3 ..	..	1 \$20	..	..	2 \$5	..	..	..	..	..	12 ..	550	
Fuses, ignited by friction from handling.	1 \$30	..	..	..	..	..	..	1 \$30	..	..	..	..	..	..	..	..	..	..	..	1 \$30	..	1 ..	30	
Foul chimneys.	..	13	..	..	..	..	..	13	13	..	..	..	..	..	..	..	..	..	..	..	..	13		
Gas stove.	4 \$95	2 \$35	..	..	..	..	..	6 \$930	5 \$905	..	..	..	1 \$25	..	..	..	..	..	..	..	..	6 ..	930	
Hot ashes igniting woodwork.	..	26 \$6,870	..	..	..	..	..	26 \$6,870	8 \$285	2 \$5,550	10 \$1,065	1 \$10	1 \$10	..	..	..	..	1 \$10	..	1 ..	2 ..	27 ..	6,870	
Kerosene-oil, bottles and cans of, falling on stove, oil igniting.	2 \$3,320	..	..	..	..	..	..	2 \$3,320	1 \$70	..	1 \$3,250	..	..	..	..	..	..	..	..	..	..	2 ..	3,320	
Kerosene-oil poured over wood-work, carpets, etc., and ignited.	..	..	..	..	1 \$1	2 \$1	..	3 \$1	3 \$1	..	..	..	..	..	..	..	..	..	..	..	..	3 ..	1	
Kerosene-oil stoves upsetting, falling, etc.	56 \$14,406	12 \$213	..	..	..	..	..	78 \$14,629	74 \$14,404	1 \$200	2 ..	..	1 \$25	..	..	..	..	..	..	..	..	78 ..	14,619	
Lightning igniting building.	2 \$4,500	..	..	..	..	..	..	2 \$4,500	..	..	..	..	..	..	2 \$4,500	..	..	..	..	..	..	2 ..	4,500	
Matches, children playing with.	..	..	..	126 \$11,726	..	..	..	126 \$11,726	117 \$10,771	5 \$340	..	..	..	..	2 \$610	..	..	1 \$5	..	..	..	126 ..	11,726	
Matches gnawed by rats and mice.	1 ..	70 \$83,712	..	..	..	..	..	71 \$83,712	19 \$10,290	16 \$31,652	20 \$33,170	6 \$1,945	9 \$2,485	..	1 \$4,170	..	..	..	..	..	..	71 ..	83,712	
Matches igniting awnings, straw, rubbish, woodwork, etc.	23 \$6,042	210 \$124,809	..	27 \$937	14 \$622	28 \$2,396	1 \$5	303 \$134,811	164 \$21,884	26 \$41,375	63 \$67,403	3 \$33	14 \$850	3 \$850	10 \$2,837	1 \$320	..	..	..	..	17 \$112	303 ..	134,811	
Not ascertained.	..	..	..	..	..	..	257 \$2,803,424	257 \$2,803,424	85 \$102,594	57 \$440,153	73 \$2,096,617	3 \$9,010	13 \$9,327	..	14 \$50,710	..	2 \$28,150	1 \$1,050	1 \$55,868	4 \$9,900	4 \$45	257 ..	2,803,424	
Phosphorus igniting.	1 ..	..	..	..	..	..	..	1 ..	1 ..	..	..	..	..	..	..	..	..	..	..	..	..	1 ..		
Rekindling of previous fire.	..	..	..	..	..	..	1 \$150	1 \$150	..	..	..	..	1 \$150	..	..	..	..	..	..	..	..	1 ..	150	
Rays of sun through glass, forming focus, igniting goods in show window.	1 \$5	..	..	..	..	..	..	1 \$5	..	1 \$5	..	..	..	..	..	..	..	..	..	..	..	1 ..	5	
Rubbish, etc., igniting.	..	..	..	..	..	..	..	1 ..	..	1 ..	..	..	..	..	..	..	..	..	..	..	..	1 ..		
Sparks produced by friction igniting can of Greek fire.	1 ..	..	..	..	..	..	..	1 ..	..	..	1 ..	..	..	..	..	..	..	..	..	..	..	1 ..		
Soot ignited in fire-places and flues.	..	4 \$35	..	..	..	..	..	4 \$35	3 \$25	..	..	..	1 \$10	..	..	..	..	..	..	..	..	4 ..	35	
Sparks from chimneys, stoves, etc.	2 \$310	5 \$27	..	..	..	..	..	7 \$337	6 \$332	..	..	..	..	..	..	..	..	..	..	..	..	7 ..	337	
Sparks from distant fire.	1 ..	..	..	..	..	..	..	1 ..	..	..	..	..	..	..	..	..	1 ..	..	..	..	..	1 ..		
Spontaneous combustion of oily rubbish, etc.	3 \$1,050	7 \$150	..	..	..	..	..	10 \$1,200	4 \$250	2 \$15	1 ..	..	1 \$20	..	1 \$850	..	1 \$65	..	..	..	..	10 ..	1,200	
Stoves, stove-pipes, etc., heat from igniting woodwork, etc.	3 ..	7 \$105	..	..	..	..	..	10 \$105	8 \$105	..	2 ..	..	..	..	..	..	..	..	..	..	..	10 ..	105	
Sulphur igniting clothing, etc.	1 ..	2 \$450	..	..	..	..	..	3 \$450	2 \$300	..	..	..	..	..	..	..</	

Origin of Fires by Districts and Months.
First District—Part of City lying South of Chambers Street.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January.....	2	2	..	4	..	2	..	2	..	5	..	5	1	5	2	8	3	14	2	19	\$2,310	\$7,850	\$10,160
February.....	1	4	..	5	1	4	..	5	..	5	..	5	3	14	..	17	5	27	..	32	11,355	46,956	58,311
March.....	..	1	..	1	1	2	..	3	..	4	1	5	3	10	..	13	4	17	1	22	11,505	91,265	102,770
April.....	2	..	..	2	1	1	..	2	..	7	..	7	..	6	..	6	3	14	..	17	14,727	65,492	80,219
May.....	1	..	..	1	1	1	1	3	..	2	..	2	..	11	..	11	2	14	1	17	23,660	112,834	136,494
June.....	1	..	..	1	2	2	..	4	..	3	..	3	..	5	..	5	3	10	..	13	1,630	24,025	25,655
July.....	..	..	..	..	..	2	..	2	..	1	..	1	..	8	1	9	..	11	1	12	915	10,405	11,320
August.....	..	..	..	..	1	2	1	4	..	4	1	5	..	7	1	8	1	13	3	17	10,970	72,840	83,810
September.....	..	1	..	1	1	2	..	3	1	2	1	4	1	5	..	6	3	10	1	14	10,690	705	11,395
October.....	..	1	..	1	1	2	..	3	..	3	1	4	1	3	1	5	2	9	2	13	1,775	11,778	13,553
November.....	1	2	..	3	..	7	..	7	..	3	1	4	..	2	..	2	1	14	1	16	2,610	15,410	18,020
December.....	1	1	..	2	..	7	..	7	..	2	..	2	..	13	1	14	1	23	1	25	10,970	72,087	83,057
Total.....	9	12	..	21	9	34	2	45	1	41	5	47	9	89	6	104	28	176	13	217	\$103,117	\$531,647	\$634,764

Number of buildings in district (as per enumeration in 1885)—
Dwellings..... 1,012
Business..... 3,805
Total..... 4,817

Number of fires in dwellings..... 28
Number of fires in business buildings..... 176
Total fires in buildings..... 204

Number of dwellings to each fire..... 36
Number of business places to each fire..... 22
Number of buildings to each fire..... 24

Second District—Part of City lying between Chambers and Houston Streets, West of West Broadway and South Fifth Avenue.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January.....	4	..	..	4	3	1	..	4	..	..	..	..	1	3	..	4	8	4	..	12	\$550	\$1,490	\$2,040
February.....	2	..	..	2	1	..	1	2	..	..	..	..	2	1	1	4	5	1	2	8	285	195	480
March.....	2	1	..	3	2	..	..	2	..	..	..	..	2	2	..	4	6	3	..	9	385	905	1,290
April.....	4	..	..	4	2	..	..	2	..	..	..	..	1	3	..	4	7	3	..	10	945	4,945	5,890
May.....	1	..	..	1	1	..	..	1	..	..	1	1	2	1	..	3	4	1	1	6	415	285	700
June.....	..	..	..	..	3	..	..	3	..	2	2	4	1	1	..	2	4	3	2	9	510	1,000	1,510
July.....	..	..	..	..	2	..	..	2	..	..	..	..	2	3	..	5	4	3	..	7	520	6,120	6,640
August.....	..	..	..	..	1	..	..	1	..	..	..	..	2	1	..	3	3	1	..	4	5	75	80
September.....	1	..	..	1	3	1	..	4	..	1	..	1	..	..	..	..	4	2	..	6	650	1,570	2,220
October.....	3	..	..	3	2	..	..	2	..	2	..	2	..	1	..	1	5	3	..	8	720	110	830
November.....	2	..	..	2	1	1	..	2	..	..	..	..	..	1	..	1	3	2	..	5	600	2,255	2,855
December.....	2	..	..	2	1	..	1	2	..	1	..	1	4	3	1	8	7	4	2	13	30,468	27,648	58,116
Total.....	21	1	..	22	22	3	2	27	..	6	3	9	17	20	2	39	60	30	7	97	\$36,053	\$46,598	\$82,651

Number of buildings in district (as per enumeration in 1885)—
Dwellings..... 2,518
Business..... 902
Total..... 3,420

Number of fires in dwellings..... 60
Number of fires in business buildings..... 30
Total fires in buildings..... 90

Number of dwellings to each fire..... 42
Number of business places to each fire..... 30
Number of buildings to each fire..... 38

Third District—Part of City lying between Chambers and Houston Streets, West Broadway and South Fifth Avenue, and Crosby, Elm and Centre Streets.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January.....	..	3	..	3	..	1	..	1	..	..	..	..	..	2	..	2	..	6	..	6	\$6,475	\$66,650	\$73,125
February.....	..	2	..	2	..	1	..	1	..	..	..	..	..	4	..	4	..	7	..	7	230	100	330
March.....	..	..	..	..	..	1	..	1	..	..	..	..	..	4	..	4	..	5	..	5	1,825	38,525	40,350
April.....	1	2	..	3	..	1	..	1	..	1	..	1	..	4	..	4	1	8	..	9	2,907	10,105	13,012
May.....	..	..	..	..	..	1	..	1	..	1	..	1	..	5	..	5	..	7	..	7	1,475	15,125	16,600
June.....	1	1	..	2	..	1	..	1	..	1	..	1	..	3	..	3	1	6	..	7	750	4,700	5,450
July.....	..	..	..	..	..	2	..	2	..	1	..	1	..	1	..	1	..	4	..	4	600	3,350	3,950
August.....	..	..	..	..	..	..	..	..	..	2	..	2	1	3	..	4	1	5	..	6	1,100	11,155	12,255
September.....	..	..	..	..	..	2	1	3	..	1	..	1	..	..	..	..	..	3	1	4	150	1,035	1,185
October.....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	1	..	1	.....	.....	.....
November.....	..	..	..	..	..	2	..	2	..	2	..	2	..	4	..	4	..	8	..	8	5,925	24,848	30,773
December.....	1	1	..	2	..	2	..	2	..	..	..	..	..	9	1	10	1	12	1	14	5,140	58,495	63,635
Total.....	3	9	..	12	..	14	1	15	..	9	..	9	1	40	1	42	4	72	2	78	\$26,577	\$234,088	\$260,665

Number of buildings in district (as per enumeration in 1885)—
Dwellings..... 333
Business..... 1,303
Total..... 1,636

Number of fires in dwellings..... 4
Number of fires in business buildings..... 72
Total fires in buildings..... 76

Number of dwellings to each fire..... 83
Number of business places to each fire..... 18
Number of buildings to each fire..... 22

Fourth District—Part of City lying between Chambers and Houston Streets, East of Crosby, Elm and Centre Streets.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January.....	10	3	..	13	10	5	..	15	1	5	..	6	10	9	..	19	31	22	..	53	\$5,837	\$19,017	\$24,854
February.....	5	6	..	11	17	2	..	19	..	1	..	1	13	7	..	20	35	16	..	51	7,130	16,715	23,845
March.....	11	3	..	14	13	6	..	19	1	6	..	7	10	7	..	17	35	22	..	57	3,505	15,689	19,194
April.....	9	3	..	12	10	6	..	16	1	6	3	10	9	11	1	21	29	26	4	59	3,197	23,548	26,747
May.....	3	2	..	5	14	2	..	16	1	2	..	3	9	4	..	13	27	10	..	37	2,295	6,927	9,222
June.....	5	1	..	6	13	4	..	17	3	8	..	11	19	5	..	24	40	18	..	58	6,805	16,661	23,466
July.....	..	..	..	..	13	3	..	16	1	4	..	5	14	9	2	25	28	16	2	46	1,625	4,148	5,773
August.....	..	..	..	..	12	8	..	20	..	2	1	3	37	10	3	50	49	20	4	73	11,482	13,706	25,188
September.....	2	1	..	3	6	6	..	12	..	4	..	4	20	14	..	34	28	25	..	53	7,825	14,870	22,695
October.....	4	1	..	5	11	6	..	17	..	7	..	7	9	9	1	19	24	23	1	48	2,487	3,564	6,051
November.....	9	2	..	11	18	4	..	22	1	5	1	7	13	15	1	29	41	26	2	69	3,450	7,873	11,323
December.....	11	4	..	15	22	1	..	23	..	2	..	2	18	17	1	36	51	24	1	76	21,365	96,343	117,708
Total.....	69	26	..	95	159	53	..	212	9	52	5	66	181	117	9	307	418	248	14	680	\$77,005	\$239,061	\$316,066

Number of buildings in district (as per enumeration in 1885)—
Dwellings.....9,994
Business.....2,593
Total.....12,592

Number of fires in dwellings.....418
Number of fires in business buildings.....248
Total fires in buildings.....666

Number of dwellings to each fire.....24
Number of business places to each fire.....11
Number of buildings to each fire.....19

Fifth District—Part of City lying between Houston and Twenty-third Streets.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January.....	8	5	1	14	8	1	..	9	1	5	..	6	11	7	..	18	28	18	1	47	\$8,525	\$18,504	\$27,029
February.....	11	..	1	12	7	2	1	10	1	3	..	4	11	11	..	22	30	16	2	48	3,935	39,131	43,066
March.....	7	5	..	12	12	2	..	14	..	5	..	5	9	10	..	19	28	22	..	50	6,025	18,416	24,441
April.....	7	1	..	8	11	3	..	14	..	4	..	4	7	3	1	11	25	11	1	37	5,565	6,924	12,489
May.....	6	1	..	7	12	3	..	15	..	5	..	5	11	10	1	22	29	19	1	49	4,207	21,849	26,056
June.....	3	1	..	4	9	2	..	11	1	5	1	7	7	11	1	19	20	19	2	41	15,742	41,294	57,036
July.....	..	..	..	..	9	3	..	12	3	7	..	10	9	7	..	16	21	17	..	38	32,937	77,302	110,239
August.....	..	..	..	..	3	3	1	7	..	8	1	9	7	10	2	19	10	21	4	35	5,360	23,407	28,767
September.....	..	..	..	..	9	5	..	14	1	6	1	8	5	4	1	10	15	15	2	32	1,220	10,830	12,050
October.....	7	2	..	9	7	1	..	8	..	2	..	2	3	9	..	12	17	14	..	31	2,879	10,179	13,058
November.....	3	2	..	5	8	5	..	13	..	7	1	8	5	6	1	12	16	20	2	38	1,489	50,706	52,195
December.....	2	2	..	4	4	8	..	12	1	3	..	4	6	10	..	16	13	23	..	36	14,225	93,853	108,078
Total.....	54	19	2	75	99	38	2	139	8	60	4	72	91	98	7	196	252	215	15	482	\$102,129	\$412,405	\$514,534

Number of buildings in district (as per enumeration in 1885)—
Dwellings.....15,986
Business.....3,836
Total.....19,822

Number of fires in dwellings.....252
Number of fires in business buildings.....215
Total fires in buildings.....467

Number of dwellings to each fire.....63
Number of business places to each fire.....18
Number of buildings to each fire.....43

Sixth District—Part of City lying between Twenty-third and Fifty-ninth Streets.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January.....	16	2	..	18	12	2	1	15	1	7	..	8	15	8	2	25	44	19	3	66	\$9,775	\$27,888	\$37,663
February.....	25	3	..	28	13	4	..	17	1	8	..	9	15	7	..	22	54	22	..	76	48,767	79,527	128,294
March.....	15	1	..	16	12	4	..	16	..	2	..	2	13	8	1	22	40	15	1	56	19,105	37,999	57,104
April.....	15	1	..	16	20	5	1	26	1	7	..	8	13	7	1	21	49	20	2	71	12,592	17,676	30,268
May.....	9	..	..	9	12	3	1	16	2	5	1	8	7	2	1	10	30	10	3	43	2,265	10,805	13,070
June.....	3	1	..	4	13	..	2	15	1	8	..	9	9	6	2	17	26	15	4	45	41,190	82,370	123,560
July.....	..	..	..	..	11	5	..	16	1	7	..	8	16	9	..	25	28	21	..	49	3,666	9,710	13,376
August.....	..	..	..	..	12	3	..	15	1	9	1	11	14	14	..	28	27	26	1	54	11,195	15,713	26,908
September.....	3	2	..	5	8	3	..	11	..	6	..	6	9	8	..	17	20	19	..	39	2,485	5,292	7,777
October.....	8	1	..	9	9	2	..	11	..	5	1	6	14	5	..	19	31	13	1	45	1,560	3,360	4,920
November.....	12	3	..	15	5	6	..	11	1	2	..	3	10	6	1	17	28	17	1	46	3,165	1,662	4,827
December.....	19	3	..	22	19	9	2	30	1	3	1	5	21	9	2	33	61	24	5	90	12,650	37,296	49,946
Total.....	125	17	..	142	146	46	7	199	10	69	4	83	157	89	10	256	438	221	21	680	\$168,415	\$329,298	\$497,713

Number of buildings in district (as per enumeration in 1885)—
Dwellings.....22,274
Business.....4,585
Total.....26,859

Number of fires in dwellings.....438
Number of fires in business buildings.....221
Total fires in buildings.....659

Number of dwellings to each fire.....51
Number of business places to each fire.....21
Number of buildings to each fire.....40

Seventh District—Part of City lying between Fifty-ninth and One Hundred and Tenth Streets, West of Fifth Avenue.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January .....	..	..	..	..	..	..	..	..	..	1	..	1	2	..	..	2	2	1	..	3	\$65	\$83	\$148
February	2	..	..	2	2	1	..	3	..	1	..	1	3	..	..	3	7	2	..	9	3,140	1,395	4,535
March	1	..	..	1	1	..	..	1	..	..	..	..	1	1	..	1	2	1	..	3	200	1,015	1,215
April .....	..	..	1	1	..	..	..	..	..	..	..	..	1	2	..	3	1	2	1	4	474,377	957,669	1,432,046
May .....	..	1	..	1	3	..	..	3	..	..	..	..	1	1	..	2	4	2	..	6	660	217	877
June	1	..	..	1	2	1	..	3	..	..	..	..	..	..	..	..	3	1	..	4	20	235	255
July .....	..	..	..	..	2	..	..	2	..	..	..	..	..	1	..	1	2	1	..	3	50	105	155
August .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
September .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	1	1	..	..	..
October	2	..	..	2	..	..	..	..	..	..	..	..	1	1	1	3	3	1	1	5	295	1,650	1,945
November	1	..	..	1	3	..	..	3	2	..	..	2	1	1	..	2	7	1	..	8	25	22	47
December	2	..	..	2	4	2	..	6	..	..	..	..	3	..	..	3	9	2	..	11	790	447	1,237
Total	9	1	1	11	17	4	..	21	2	2	..	4	12	7	2	21	40	14	3	57	\$479,622	\$962,835	\$1,442,457

Number of buildings in district (as per enumeration in 1885)—
Dwellings..... 2,493
Business..... 1,021
Total..... 3,514

Number of fires in dwellings..... 40
Number of fires in business buildings..... 14
Total fires in buildings..... 54

Number of dwellings to each fire..... 62
Number of business places to each fire..... 73
Number of buildings to each fire..... 65

Eighth District—Part of City lying between Fifty-ninth and One Hundred and Tenth Streets, East of Fifth Avenue.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January	4	2	1	7	12	3	..	15	1	1	..	2	9	2	2	13	26	8	3	37	\$2,500	\$7,695	\$10,195
February	4	1	..	5	6	..	..	6	1	..	..	1	14	3	1	18	25	4	1	30	2,867	3,697	6,564
March	2	2	..	4	10	3	1	14	..	1	..	1	10	3	..	13	22	9	1	32	3,150	2,752	5,902
April	4	..	..	4	7	1	..	8	..	..	..	..	6	1	..	7	17	2	..	19	447	1,270	1,717
May	2	..	..	2	4	1	..	5	..	..	..	..	3	2	..	5	9	3	..	12	20,652	46,010	66,662
June	1	..	..	1	2	..	..	2	..	2	..	2	7	2	..	9	10	4	..	14	1,350	3,965	5,315
July .....	..	..	..	..	3	3	..	6	..	2	..	2	8	3	..	11	11	8	..	19	520	1,414	1,934
August .....	..	..	..	..	2	..	..	2	..	2	..	2	7	3	..	10	9	5	..	14	785	2,230	3,015
September	1	..	..	1	7	2	..	9	3	1	1	5	3	1	..	4	14	4	1	19	346	620	966
October	2	..	..	2	4	1	..	5	..	2	..	2	11	3	..	14	17	6	..	23	4,624	21,405	26,029
November	5	..	..	5	6	1	..	7	..	1	..	1	9	4	..	13	20	6	..	26	1,547	2,625	4,172
December	3	..	..	3	8	1	..	9	..	2	..	2	4	1	..	5	15	4	..	19	20,420	5,499	25,919
Total	28	5	1	34	71	16	1	88	5	14	1	20	91	28	3	122	195	63	6	264	\$59,208	\$99,182	\$158,390

Number of buildings in district (as per enumeration in 1885)—
Dwellings..... 9,689
Business..... 1,454
Total..... 11,143

Number of fires in dwellings..... 195
Number of fires in business buildings..... 63
Total fires in buildings..... 258

Number of dwellings to each fire..... 50
Number of business places to each fire..... 23
Number of buildings to each fire..... 43

Ninth District—Part of City lying between One Hundred and Tenth Street and Harlem River, West of Eighth Avenue.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	\$500	\$3,500	\$4,000
February .....	..	..	..	..	..	1	..	1	..	..	..	..	1	..	..	1	3	1	..	4	412	1,718	2,160
March .....	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	1	1	..	..	..
April .....	..	..	..	..	1	..	..	1	..	1	1	2	..	1	2	3	1	2	3	6	5,705	150	5,855
May .....	..	..	..	..	..	..	..	..	..	1	1	2	1	..	..	1	1	1	1	3	402	3,005	3,407
June	1	..	..	1	1	..	..	1	..	..	1	1	..	..	1	1	2	..	2	4	25	540	565
July .....	..	..	..	..	..	..	..	..	..	..	..	..	1	2	..	3	1	2	..	3	15	60	75
August .....	..	..	..	..	1	..	..	1	..	..	..	..	..	2	..	2	1	2	..	3	5	..	5
September .....	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3	..	3	..	3	50	229	279
October .....	..	..	..	..	1	..	..	1	..	..	..	..	1	..	..	1	2	..	..	2	5	..	5
November	1	..	..	1	..	..	..	..	..	..	3	3	2	..	1	3	3	..	4	7	605	..	605
December .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	5	..	..	5	4	1	..	5	..	2	7	9	6	8	4	18	15	11	11	37	\$7,754	\$9,202	\$16,956

Number of buildings in district (as per enumeration in 1885)—
Dwellings..... 1,862
Business..... 1,560
Total..... 3,422

Number of fires in dwellings..... 15
Number of fires in business buildings..... 11
Total fires in buildings..... 26

Number of dwellings to each fire..... 124
Number of business places to each fire..... 142
Number of buildings to each fire..... 93

Tenth District—Part of City lying between One Hundred and Tenth Street and Harlem River, East of Eighth Avenue.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January	3	1	..	4	2	2	..	4	1	1	..	2	1	2	..	3	7	6	..	13	\$1,375	\$2,700	\$4,075
February.....	3	1	..	4	2	..	..	2	..	1	..	1	7	..	..	7	12	2	..	14	2,025	3,090	5,115
March.....	3	..	..	3	2	1	..	3	..	3	1	4	7	5	1	13	12	9	2	23	2,945	2,520	5,465
April.....	1	..	..	1	5	1	..	6	..	..	..	..	3	3	1	7	9	4	1	14	63,625	63,816	127,441
May.....	2	..	..	2	5	..	..	5	..	1	..	1	4	3	..	7	11	4	..	15	115	245	360
June.....	2	..	..	2	2	1	..	3	..	2	..	2	..	3	1	4	4	6	1	11	547	1,378	1,925
July.....	..	..	..	..	1	1	1	3	..	1	..	1	3	3	..	6	4	5	1	10	635	950	1,585
August.....	..	..	..	..	2	2	..	4	..	2	..	2	6	2	..	8	8	6	..	14	60	246	306
September .....	..	..	..	..	3	..	..	3	..	..	..	..	2	1	..	3	5	1	..	6	1,315	5,552	6,867
October.....	1	1	..	2	1	2	..	3	..	..	..	..	..	2	..	2	2	5	..	7	5,315	9,350	14,665
November.....	4	..	..	4	4	1	..	5	..	..	..	..	3	2	..	5	11	3	..	14	390	1,645	2,035
December.....	3	1	..	4	5	2	..	7	..	2	..	2	4	1	..	5	12	6	..	18	9,090	6,347	15,437
Total	22	4	..	26	34	13	1	48	1	13	1	15	40	27	3	70	97	57	5	159	\$87,437	\$97,839	\$185,276

Number of buildings in district (as per enumeration in 1885)—
Dwellings..... 6,941
Business..... 945
Total..... 7,886

Number of fires in dwellings..... 97
Number of fires in business buildings..... 57
Total fires in buildings..... 154

Number of dwellings to each fire..... 72
Number of business places to each fire..... 17
Number of buildings to each fire..... 51

Eleventh District—Part of City lying between Harlem and East Rivers, Kingsbridge Road, etc., and Bronx River.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January	1	..	..	1	..	..	..	..	..	..	..	..	1	2	..	3	2	2	..	4	\$126	\$396	\$522
February.....	1	2	1	4	..	..	..	..	..	1	..	1	1	3	..	4	2	6	1	9	1,535	1,832	3,367
March.....	4	2	..	6	..	..	..	..	..	1	1	2	1	1	..	2	5	4	1	10	3,535	4,070	7,605
April.....	1	..	..	1	6	..	..	6	..	..	..	..	1	1	..	2	8	1	..	9	50	218	268
May.....	..	..	..	..	..	..	..	..	..	1	..	1	2	3	..	5	2	4	..	6	3,950	1,565	5,515
June.....	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	2	2	..	..	2	1,300	50	1,350
July.....	..	..	..	..	1	..	..	1	..	1	1	2	1	1	..	2	2	2	1	5	250	405	655
August.....	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	2	2	..	..	2	35	5	40
September.....	..	..	..	..	..	..	..	..	..	1	..	1	..	2	..	2	..	3	..	3	800	5,600	6,400
October.....	4	..	..	4	1	1	..	2	..	..	..	..	3	2	..	5	8	3	..	11	1,873	1,793	3,666
November.....	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1	3	2	..	1	3	50	10	60
December.....	1	..	..	1	2	1	..	3	1	..	..	1	1	..	..	1	5	1	..	6	210	165	375
Total	12	4	1	17	10	2	..	12	1	5	2	8	17	15	1	33	40	26	4	70	\$13,714	\$16,109	\$29,823

Number of buildings in district (as per enumeration in 1885)—
Dwellings..... 6,989
Business..... 3,184
Total..... 10,173

Number of fires in dwellings..... 40
Number of fires in business buildings..... 26
Total fires in buildings..... 66

Number of dwellings to each fire..... 175
Number of business places to each fire..... 122
Number of buildings to each fire..... 154

Twelfth District—Part of City lying North of Spuyten Duyvil Creek and Kingsbridge Road, etc.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January .....	..	..	..	..	..	..	..	..	..	1	..	1	1	..	..	1	1	1	..	2	\$45	\$220	\$265
February.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....	.....	.....
March.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....	.....	.....
April.....	2	..	..	2	..	..	..	..	..	..	..	..	..	1	..	1	2	1	..	3	500	25	525
May.....	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	.....	.....	.....
June.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....	.....	.....
July.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....	.....	.....
August.....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	1	..	1	600	400	1,000
September.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....	.....	.....
October.....	2	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	2	15	.....	15
November.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....	.....	.....
December.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.....	.....	.....
Total	5	..	..	5	..	..	..	..	..	1	..	1	1	2	..	3	6	3	..	9	\$1,160	\$645	\$1,805

Number of buildings in district (as per enumeration in 1885)—
Dwellings..... 945
Business..... 674
Total..... 1,619

Number of fires in dwellings..... 6
Number of fires in business buildings..... 3
Total fires in buildings..... 9

Number of dwellings to each fire..... 159
Number of business places to each fire..... 225
Number of buildings to each fire..... 182

Thirteenth District—Governor's, Bedloe's, Ellis', Blackwell's, Ward's, Randall's and North Brother Islands.

MONTHS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Buildings.	Contents.	Total.
January
February
March
April
May
June	\$325	\$500	\$825
July
August
September
October	700	150	850
November	2	2
December
Total	2	..	..	2	1	1	..	2	3	1	..	4	\$1,025	\$652	\$1,677

Number of buildings in district (as per enumeration in 1885)—
Dwellings..... 219
Business..... 231
Total..... 450

Number of fires in dwellings..... 3
Number of fires in business buildings..... 1
Total fires in buildings..... 4

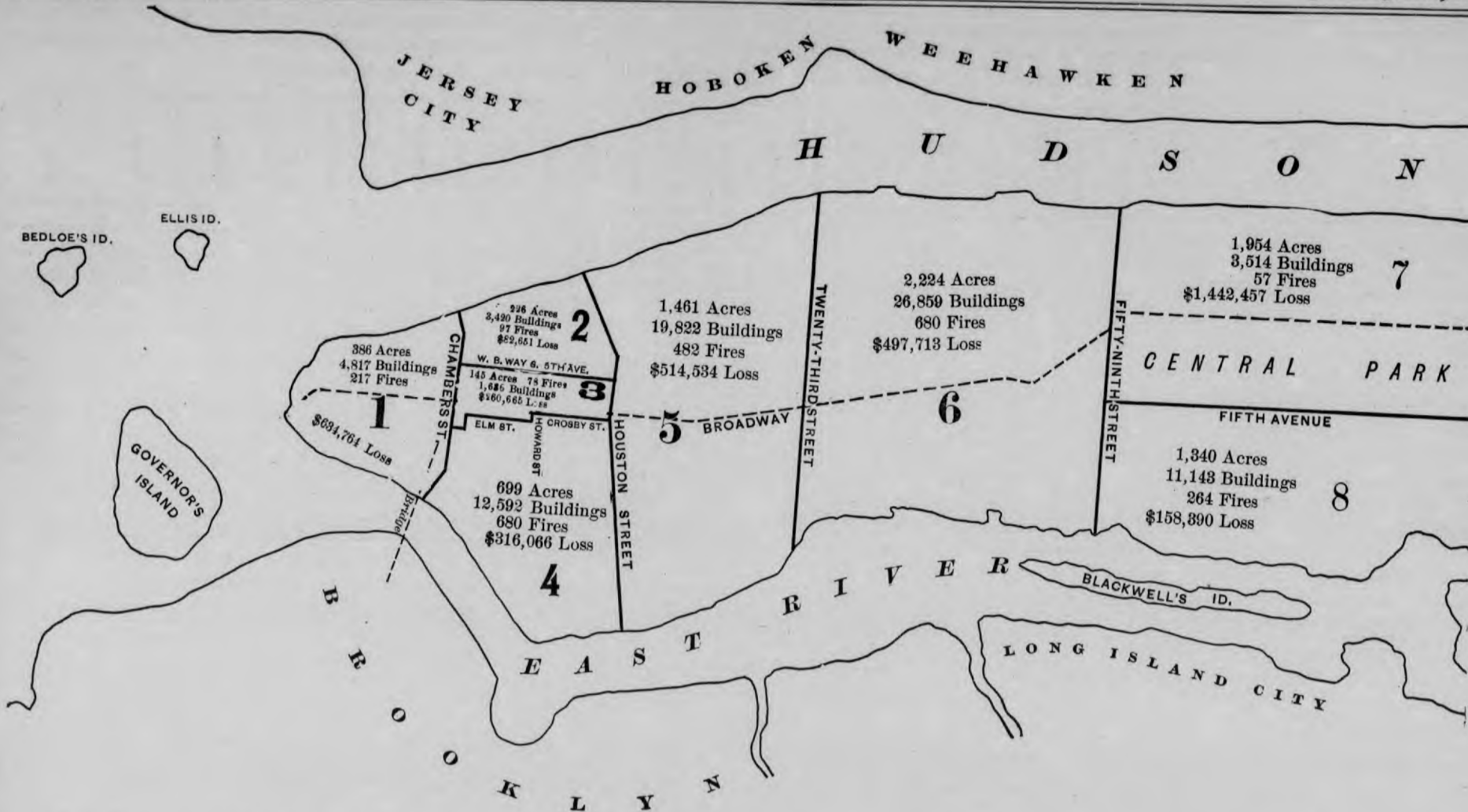
Number of dwellings to each fire..... 73
Number of business places to each fire..... 231
Number of buildings to each fire..... 112

Recapitulation.

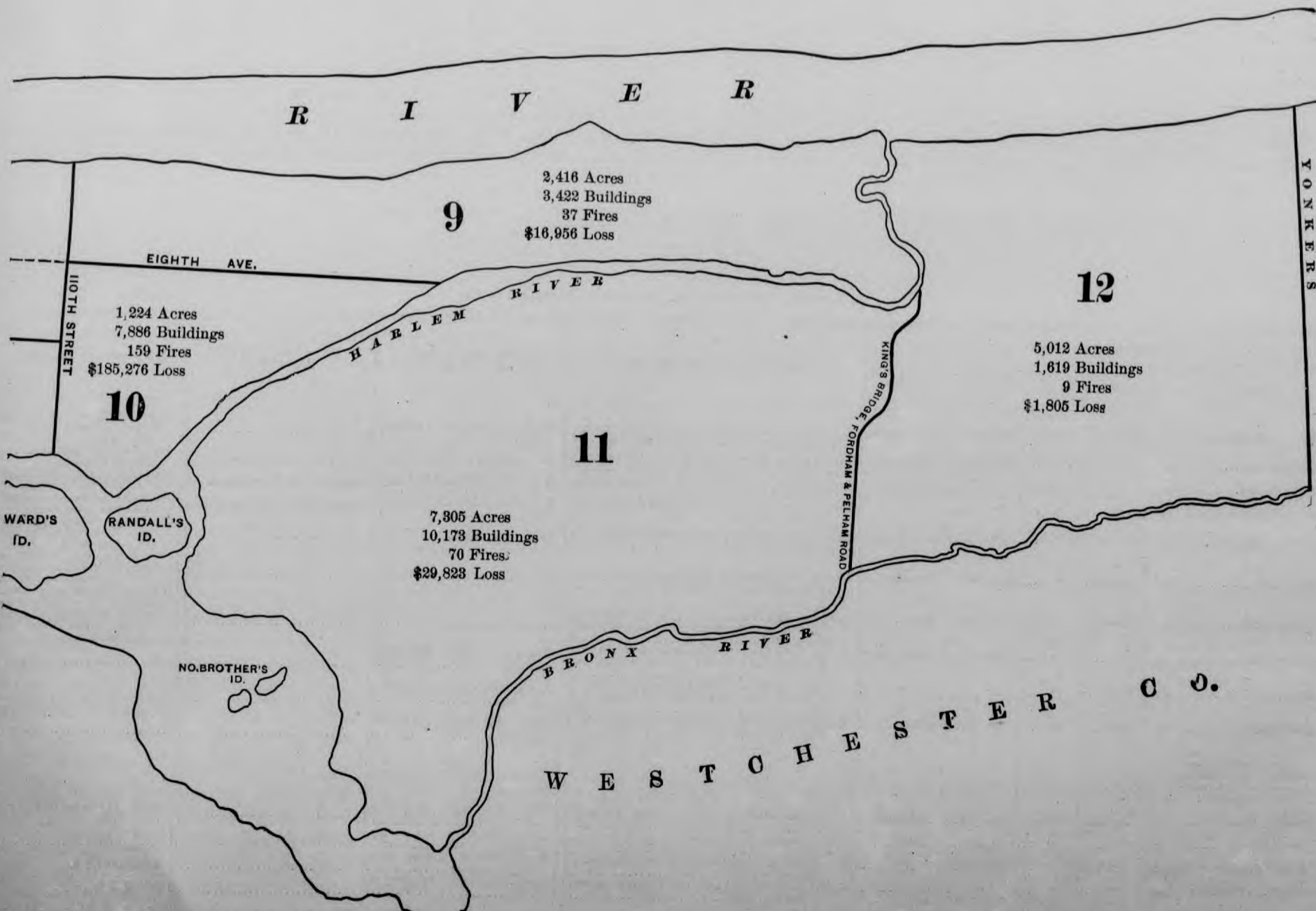
DISTRICTS.	IN HEATING.				IN ILLUMINATING.				IN MANUFACTURING AND OTHER BUSINESS.				MISCELLANEOUS.				NUMBER OF FIRES.				NUMBER OF BUILDINGS.			AVERAGE NUMBER OF BUILDINGS TO EACH FIRE.			LOSS.		
	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business.	Other Places.	Total.	Dwellings.	Business, etc.	Total.	Dwellings.	Business, etc.	Total.	Buildings.	Contents.	Total.
First	9	12	..	21	9	34	2	45	1	41	5	47	9	89	6	104	28	176	13	217	1,012	3,805	4,817	36	22	24	\$103,117	\$531,647	\$634,764
Second	21	1	..	22	22	3	2	27	..	6	3	9	17	20	2	39	60	30	7	97	2,518	902	3,420	42	30	38	36,053	46,598	82,651
Third.....	3	9	..	12	..	14	1	15	..	9	..	9	1	40	1	42	4	72	2	78	333	1,303	1,636	83	18	22	26,577	234,088	260,665
Fourth	69	26	..	95	159	53	..	212	9	52	5	66	181	117	9	307	418	248	14	680	9,994	2,598	12,592	24	11	19	77,005	239,061	316,066
Fifth	54	19	2	75	99	38	2	139	8	60	4	72	91	98	7	196	252	215	15	482	15,986	3,836	19,822	63	18	43	102,129	412,405	514,534
Sixth.....	125	17	..	142	146	46	7	199	10	69	4	83	157	89	10	256	438	221	21	680	22,274	4,585	26,859	51	21	40	168,415	329,298	497,713
Seventh	9	1	1	11	17	4	..	21	2	2	..	4	12	7	2	21	40	14	3	57	2,493	1,021	3,514	62	73	65	479,622	962,835	1,442,457
Eighth.....	28	5	1	34	71	16	1	88	5	14	1	20	91	28	3	122	195	63	6	264	9,689	1,454	11,143	50	23	43	59,208	99,182	158,390
Ninth	5	..	..	5	4	1	..	5	..	2	7	9	6	8	4	18	15	11	11	37	1,862	1,560	3,422	124	142	93	7,754	9,202	16,956
Tenth	22	4	..	26	34	13	1	48	1	13	1	15	40	27	3	70	97	57	5	159	6,941	945	7,886	72	17	51	87,437	97,839	185,276
Eleventh.....	12	4	1	17	10	2	..	12	1	5	2	8	17	15	1	33	40	26	4	70	6,989	3,184	10,173	175	122	154	13,714	16,109	29,823
Twelfth.....	5	..	..	5	..	..	..	..	..	1	..	1	1	2	..	3	6	3	..	9	945	674	1,619	159	225	180	1,160	645	1,805
Thirteenth .....	..	..	..	..	..	..	..	..	2	..	..	2	1	1	..	2	3	1	..	4	219	231	450	73	231	112	1,025	652	1,677
Total.....	362	98	5	465	571	224	16	811	39	274	32	345	624	541	48	1,213	1,596	1,137	101	2,834	81,255	26,098	107,353	51	22	39	\$1,163,216	\$2,979,561	\$4,142,777

Indictments, Convictions, etc., for Arson, Incendiarism, etc.

DESCRIPTION OF PERSON.						NATURE OF CHARGE AND CIRCUMSTANCES.	NATURE OF INDICTMENT AND DATE.	WHEN AND OF WHAT CONVICTED.	SENTENCE AND REMARKS.
Name.	Age.	Sex.	Color.	Nativity.	Occupation.				
Philip Heinrich	58	Male....	White...	Germany..	Type-founder	Setting fire to his premises No. 195 William street, on the night of November 24-25, 1888	Arson, third degree, January 24, 1889 .....	.....	Bailed in \$5,000 by Judge Smyth, January 24, 1889. Case pending.
John Harris	37	"	"	Poland	Shoe dealer..	Setting fire to the premises No. 819 Tenth avenue, on the night of December 25, 1888	No indictment .....	.....	Dismissed by Grand Jury. Insufficient evidence.
Philip Caplan	29	"	"	"	Dry goods...	Setting fire to premises No. 2908 Third avenue, on the night of February 16, 1889	Arson, first degree, March 29, 1889	Tried May 28. Jury disagreed	December 3, 1889, discharged on his own recognizance.
Simon Sondowitch	23	"	"	"	"	Setting fire to premises No. 2908 Third avenue, on the night of February 16, 1889	Arson, first degree, March 29, 1889	Tried June 17. Jury disagreed	December 3, 1889, discharged on his own recognizance.
Max Silvermann	37	"	"	"	Shoe dealer..	Setting fire to premises No. 625 Third avenue, on the night of February 13, 1889	Arson, first degree .....	.....	Discharged August 8, 1889, by Judge Gildersleeve on his own recognizance.
Mary Goss .....	..	Female..	"	American..	Domestic....	Setting several fires in dwelling No. 350 Lenox avenue, on and before April 12, 1889 .....	.....	.....	Sent to House of Refuge by Judge of Fifth District Police Court. Commitment made on complaint of her mother.
Joseph Quirk	12	Male....	"	"	None	Setting several fires in dwelling No. 323 East One Hundred and Fourteenth street, on and before May 5, 1889 .....	.....	.....	Committed to Catholic Protectory by Judge of Fifth District Police Court on complaint of his father.
Henry Koch	35	"	"	Poland	Hair-dresser.	Conspiring to fire and setting fire to premises No. 78 Norfolk street, on the night of October 17, 1889	Arson, first degree, November 14, 1889 .....	.....	.....
Henrietta Koch	32	Female..	"	"	"	Conspiring to fire and setting fire to premises No. 78 Norfolk street, on the night of October 17, 1889	Arson, first degree, November 14, 1889 .....	.....	.....
Max Lipschur	28	Male....	"	"	Tailor	Conspiring to fire and setting fire to premises No. 78 Norfolk street, on the night of October 17, 1889	Arson, first degree, November 14, 1889 .....	.....	.....
The following cases remain in the District Attorney's office awaiting final disposition :									
Susan A. Howard	40	Female..	White...	American..	Dressmaker..	Firing premises No. 217 Sixth avenue, on May 5, 1882	Arson, first degree, May 11, 1882 .....	.....	Bailed in \$2,000 by Judge Donohue.
Joseph Coletta	30	Male....	"	Russian ...	Tailor	Firing premises No. 151 Essex street, January 30, 1884	Arson, first degree, and larceny, February 8, 1884	Tried and jury disagreed .....	.....
William alias Fritz Purbs	18	"	"	American..	Printer	Firing premises No. 7 Frankfort street, August 4, 1887, and September 4, 1887	Arson, second degree, September 14, 1887 .....	.....	Bailed in \$1,000.
John M. D. Fanshawe	28	"	"	"	Clerk	Firing premises No. 50 East Twenty-ninth street, February 3, 1888	Arson, first degree, February 21, 1888 .....	.....	Bailed in \$7,500.



NOTE.—The true positions of Bedloe's and Ellis Islands are considerably south and west of the locations given them for convenience on this map. The number of buildings on all of the islands is 450, as per last enumeration in 1885. Number of fires, 4. Loss, \$1,677.



BUREAU OF COMBUSTIBLES.

Operations under the Laws Regulating the Storage of Combustibles and Explosive Materials, etc.

COMPLAINTS OF VIOLATIONS, ETC.	Pending last Report.	Received since.	Total to be Disposed of.	DISPOSITION.						Now pending.
				Complied on Notice.	Unfounded.	Penalties Collected.	Penalties Remitted.	Prosecution Recommended.	Total.	
Selling kerosene-oil below test .....	..	1	1	..	..	1	..	..	1	..
Selling kerosene-oil without license.....	..	519	519	463	30	..	..	10	503	16
Chimney fires.....	20	176	196	..	..	80	101	..	181	15
Hoistways found open after conclusion of business...	..	8	8	..	..	3	..	..	3	5
Fire-hydrants obstructed .....	..	12	12	11	..	..	..	..	11	1
Lights unprotected	8	..	8	1	..	..	..	..	1	7
Want of fire-extinguishing appliances.....	5	..	5	3	2	..	..	..	5	..
Combustible material in excessive quantity.....	8	46	54	35	13	..	..	..	48	6
Kerosene or naphtha, etc., in excessive quantity....	2	19	21	8	11	..	..	1	20	1
Fireworks, chemicals, matches, etc., kept without permit.....	1	9	10	7	3	..	..	..	10	..
Powder, etc., improperly stored, transported, etc ...	..	7	7	4	2	..	1	..	7	..
Chimneys, flues, heating apparatus, etc., unsafe.....	73	23	101	51	5	..	..	..	56	45
Ashes in wooden boxes, etc.....	2	..	2	2	..	..	..	..	2	..
Hay, straw, cotton, rags, and other vegetable fibre stored in excessive quantity.....	..	5	5	3	..	..	..	..	3	2
Totals.....	119	830	949	583	66	84	102	11	851	98

Special surveys made to determine the fitness of premises for the storage of combustibles or explosive materials..... 940
 Samples of kerosene-oil collected and tested..... 6,337

Money Received for Licenses and Permits Issued, Penalties Collected, Sale of Explosives, etc., Seized, etc.

For 4,172 kerosene-oil licenses issued, at \$10.....	\$41,720 00
For 19 powder licenses issued, at \$2	38 00
For 749 special permits issued, at \$2.....	1,498 00
For 11 wholesale fireworks permits issued, at \$20.....	220 00
For 162 retail fireworks permits issued, at \$5.....	810 00
For 63 kindling fire in street permits issued, at 50 cents.....	31 50
For 32 powder licenses issued at \$5.....	160 00
For 3 permits to keep and use explosives in main magazines, at \$25.....	75 00
For 78 permits to keep and use explosives in hand magazines, at \$10.....	780 00
For 3 permits to keep and sell explosives, at \$25	75 00
For 7 permits to transport explosives, at \$1.....	7 00
Total for licenses and permits.....	\$45,414 50
For 1 penalty for selling kerosene-oil below test, at \$50.....	\$50 00
For 80 penalties for chimney fires, at \$5.....	400 00
For 3 hoistways left open, at \$50.....	150 00
Total for penalties.....	600 00
For sale of powder seized.....	25 00
Total received and turned over to the Relief Fund.....	\$46,039 50

The following regulations were established by the Board of Fire Commissioners, to govern the manufacture, transportation, sale, storage and use of explosives within the corporate limits of the City of New York, pursuant to the following provisions of law:

(Chapter 410, Laws of 1882.)

"§ 455. No person shall manufacture, have, keep, sell or give away any gunpowder, blasting powder, gun-cotton, nitro-glycerine, dualin, or any explosive oils or compounds, within the corporate limits of the City of New York, except in the quantities limited, in the manner and upon the conditions herein provided, and under such regulations as the Board of Fire Commissioners shall prescribe. * * * *"

"§ 456. No fireworks, detonating works, cartridges, powder train, percussion caps, collodion, nitrate of soda, nitrate of silver, ether, phosphorus, matches, or explosive compounds shall hereafter be manufactured, stored, or kept upon sale in the city, except at such places, in such manner, and in such quantities as shall be determined by the said Board in the exercise of their discretion, under a permit by them granted therefor, and subject to be revoked at any time by said Board. * * * *"

ARTICLE FIRST.

EXPLANATORY NOTES.

I.—The term "explosives" wherever used in these regulations is intended to comprise all explosive substances or preparations which are manufactured for or used in producing a practical effect by an explosion, or a pyrotechnic effect; and it includes also fuses and detonators, as well as every adaptation of an explosive as above defined.

II.—The term "high-explosives" wherever used in these regulations is intended to comprise only such explosive substances and preparations as are more sudden and violent in their action and effect than gunpowder.

The most important and well known of these "high-explosives" are the following:

Nitro-glycerine, pure and simple.
 Dynamites, with inexplorable base, like Dynamite or Giant Powder, No. 1.
 Dynamites, with explosive base, like "Rendrock," "Vulcan Powder," "Atlas Powder," "Hercules Powder," "Dualin," and "Judson Powder."
 Explosive or blasting gelatine.
 Gelatine dynamites, like some varieties of "Forcite."
 Gun-cotton, pure and simple, or prepared as Tonite.
 Picrates, such as "Designolle" powder and Picric powder.
 Chlorates, like "Rackarock."
 Sprengel's group of modern explosives, also called Pan-clastites.
 Fulminates of mercury and of other metals.

ARTICLE SECOND.

QUALIFICATIONS AND EXAMINATION OF PERSONS EMPLOYED IN THE TRANSPORTATION, SALE, STORAGE AND USE OF EXPLOSIVES.

I.—All persons employed in the transportation, sale, storage and use of explosives shall be not less than twenty-one (21) years of age, of good habits, reliable and able to read the English language understandingly.

II.—All persons applying for permits under these regulations shall be examined, under the direction of the Inspector of Combustibles, as to their knowledge of the provisions of these regulations and especially of the particular part or parts of the same relating to the articles under which the permit is applied for.

III.—Applicants must also show that they are fully informed as to the properties of the explosives proposed to be transported, kept, sold or used.

ARTICLE THIRD.

MANUFACTURE.

(Chapter 410, Laws of 1882.)

"§ 435. * * * No nitro-glycerine, dualin or gunpowder, shall be manufactured in said city."
 I.—The manufacture of explosives, or any process of such manufacture, is prohibited.

ARTICLE FOURTH.

PACKING FOR TRANSPORTATION.

(Chapter 410, Laws of 1882.)

"§ 455. * * * And every barrel, cask, canister, bottle, can, vessel, box or parcel, in which the same is sold, or into which the same is delivered on being sold, shall be distinctly labelled with a printed sign or label, printed upon or firmly affixed thereto, describing the article contained therein, with the word "danger" distinctly painted below the same. * * *"

I.—Not more than five (5) pounds of explosives shall be put up in any single package, and the same must be a substantial case, bag, canister or other receptacle, tightly closed to prevent the escape of any of its contents.

II.—Larger quantities shall be packed in double packages, in the following manner: The inner package shall be a substantial case, bag or covering, in the construction of which no metal is used, made to close tightly to prevent the escape of any of the contents, and shall not contain more than ten (10) pounds. Such inner packages shall be packed in an outer water-proof box, barrel or case, made of wood, or other suitable material other than metal, of such strength and construction that it cannot easily be broken or opened, or otherwise become defective or insecure, or allow the contents to escape while being transported. But not more than fifty (50) pounds in the whole, contained in such inner packages, shall be packed in any one such outer box, barrel or case, unless with the special consent and approval of the Inspector of Combustibles, under such additional special regulations as he may prescribe.

III.—The following directions apply to all packages:

1. The interior of every package shall be kept free from grit and otherwise clean. Any package which has been used for any one of the high explosives shall not be used thereafter for any other one of such compounds, or for any other purpose.

2. The layers of cartridges containing high explosives, should be separated by sawdust or other suitable inexplorable absorbent.

3. There shall be no iron or steel used in the construction of any package, unless such iron or steel is effectually covered with zinc, tin or other material. On the outer package there shall be affixed in large and conspicuous characters, by means of a brand or stencil, or a label securely attached, the words "Explosives—Dangerous," followed by the specific name of the explosive and of its manufacturer, and the statement "contains nitro-glycerine per cent. by weight, explosive absorbent per cent. by weight," and also the date of its manufacture.

ARTICLE FIFTH.

TRANSPORTATION.

(Chapter 410, Laws of 1882.)

"§ 455. * * * * and no quantities of nitro-glycerine, dualin or gunpowder greater than above provided, shall be kept, carried or conveyed within said city; except that for the purposes of distribution to or delivery from stores and buildings in said city, a quantity not more than five quarter-casks may be carried at any one time, during the day time, for the purpose of transportation from any vessel, or sending the same to said stores or buildings, or any vessel or place without said city, provided that in the carrying or conveying the same it shall be protected by being completely and securely covered with a leather or canvas cover or case, and marked 'gunpowder.' * * * *"

I.—No explosives shall be transported, carried or conveyed in any vessel, vehicle or other conveyance used or intended to be used in whole or in part for carrying passengers, unless the same are in the most perfect condition in all respects, and do not exceed in the whole, of any or all kinds, five (5) pounds; and there shall not be transported, carried or conveyed therewith, any caps or detonators, or, in proximity to such explosives, any iron or steel tools; and all due precautions shall be taken to guard against fire or explosion.

II.—For the purpose of distribution or delivery of explosives, a quantity not exceeding one hundred and forty (140) pounds may be carried on any vessel, vehicle or conveyance which is not used, or intended to be used in whole or in part for carrying passengers, subject to the following restrictions:

1. They must be packed in the manner prescribed in Article Fourth of these regulations.

2. High explosives must be in a perfect condition in all respects, and not older than one year.

3. They shall not be transported, carried or conveyed in the streets, avenues, roads or highways between sunset and sunrise.

4. If transported in the hold of a vessel, the deck must be kept securely closed.

5. If on the deck of a vessel, they must be completely and securely covered with a tarpaulin, painted cloth or other suitable covering of leather, canvas or rubber, which covering shall be marked with the word "gunpowder" in large and conspicuous characters.

6. If in a vehicle they shall be completely and securely inclosed on all sides, top and bottom; or if upon any open vehicle, they shall be covered as above prescribed for transportation upon the deck of a vessel.

7. There shall not be any iron or steel in the interior of such vessel or vehicle near the explosives, unless such iron or steel is carefully covered with leather, wood or textile fabric, or other suitable soft or yielding material.

8. No matches shall be carried or used upon such vessel or vehicle, except safety matches, which shall be securely kept in a place entirely separated from the explosive.

9. In stowing explosives in any such vessel or vehicle, the utmost care shall be taken by means of separating partitions, to secure the explosives from coming in contact with, or being otherwise endangered by any other article or substance forming a part of the cargo or load of such vessel or vehicle, which may be liable to cause fire or explosion.

10. Smoking upon such vessel or vehicle is forbidden.

11. No intoxicated person shall be permitted upon such vessel or vehicle.

12. Carelessness or recklessness in conducting or driving, loading or unloading such vessel or vehicle, must not be permitted.

13. The presence or interference of unauthorized persons, during the loading or unloading of explosives must not be allowed.

14. When the loading or unloading has been begun, it must not unnecessarily be interrupted or delayed.

15. The transportation of explosives must not be commenced before all necessary arrangements have been made to insure prompt delivery at their destination.

16. In transporting explosives the shortest route between the points of receipt and delivery shall be taken, and in case it becomes necessary to do otherwise, the least populated streets must be used.

17. Not more than fifty (50) pounds shall be transported in a vessel or vehicle carrying as merchandise any article liable to cause or communicate fire or explosion, such as charcoal, matches, petroleum and other highly combustible articles or materials.

18. A vessel or vehicle carrying more than one hundred (100) pounds, shall not stop before reaching its destination unless it be unavoidable, and, especially, shall not unnecessarily stop or delay at any point where such stopping or delaying might be attended with special danger.

19. In a vessel or vehicle carrying more than one hundred (100) pounds, the introduction of fire, matches, or any substance, material or article likely to cause explosion or fire, or of any iron or steel or grit, so as to come in contact with such explosive, is prohibited, and due precautions must also be taken to prevent water coming in contact with any nitro-glycerine mixtures. If necessary an artificial light safely covered, constructed and placed, and safety matches may be used.

20. The owner, master or driver of every such vessel or vehicle shall furnish copies of these rules to his employees engaged in the loading, transportation and unloading of explosives, and shall also post copies of the same, in some conspicuous place, where they can be conveniently read; and such owner, master or driver shall take such other measures to thoroughly acquaint his employees, so engaged, with the provisions of these regulations, as may be deemed necessary or as may be specially directed.

21. Each vessel or vehicle transporting explosives shall be under the exclusive charge of and be constantly attended by a competent and reliable person, and such person shall not have charge of more than one such vessel or vehicle.

22. Any person having charge of more than one hundred (100) pounds while in transit through or in the city, shall be required to have a permit, issued by the Inspector of Combustibles in the name of the Fire Commissioners, which permit is to be obtained as prescribed in Article Second. This regulation shall not, however, apply to railway cars forming part of a continuous train, if such train be under the charge of and constantly attended by a competent and reliable person.

23. These permits shall be issued upon the payment of a fee of one (1) dollar, and shall, unless revoked by the Fire Commissioners, remain in force for one year.

24. Such permit shall be valid only for the person or persons to whom it is issued.

25. The Fire Commissioners reserve the right, if at any time in their judgment the public safety shall require it, to amend and add to the requirements or restrictions herein prescribed before the expiration of any permit granted hereunder, and to require compliance with such amendment or additions.

ARTICLE SIXTH.

SALES AND STORAGE FOR SALE.

(Chapter 410, Laws of 1882.)

"§ 455. No person shall manufacture, have, keep, sell or give away any gunpowder, blasting powder, gun-cotton, nitro-glycerine, dualin, or any explosive oils or compounds within the corporate limits of the city of New York, except in the quantities limited, in the manner, and upon the conditions herein provided, and under such regulations as the Board of Fire Commissioners shall prescribe; * * * *"

"The said board may issue licenses to persons desiring to sell gunpowder or any of the articles mentioned under this section at retail, at a particular place in said city to be named in said license (provided that the same shall not be in a building used in any part thereof as a dwelling, unless specially authorized by said license) and persons so licensed may have on their premises, if actually kept for sale, a quantity not exceeding at one time, of nitro-glycerine, five pounds; of gun-cotton, five pounds; of gunpowder, fourteen pounds; of blasting-powder, twenty-five pounds; and all of said articles shall be put in tight metallic canisters, containing, or capable of containing, not more than one pound each; and the persons so licensed shall place on some conspicuous part of the front of the stores or buildings in which they may be licensed to sell powder, or any of the articles named under this section, a sign on which shall be distinctly printed, in characters legible to persons passing such stores or buildings, the words "licensed to sell gunpowder," or designating such other of the articles herein named as is there offered for sale; and every barrel, cask, canister, bottle, can, vessel, box or parcel, in which the same is sold, or into which the same is delivered on being sold, shall be distinctly labeled with a printed sign or label printed upon or firmly affixed thereto, describing the articles contained therein, with the word "danger" distinctly painted below the same. * * *"

"§ 464. All persons or corporations who shall be required to have and obtain permits shall furnish such information as may be required, touching the condition of any building and the business therein proposed to be conducted, preliminary to obtaining such permits."

"§ 459. In case any person is burned by the explosion of any compound, the sale of which is prohibited by any section of this title, or has not been subjected to sanitary survey, or licensed as therein provided, and death ensues therefrom, the person found guilty of selling the same shall be deemed guilty of a felony, and, upon conviction, shall be punished by a fine of not less than one thousand dollars, nor more than five thousand dollars, or by imprisonment in the State prison for a term not less than one year, nor more than five years; and in case of a bodily injury the party injured may maintain an action for damages against the party violating the provisions of this title. * * *"

I.—Permits for the sale of explosives will be issued under the following rules:

1. Application for such permits must be made in writing to the Inspector of Combustibles, stating for whom the permit is desired, the location of the premises at which the explosives are to be kept and sold, the nature of the business in which the applicant is engaged at such premises, and the quantity and description of the explosives intended to be kept on hand for sale.

2. No permit will be issued for such sales to be made at any building or premises where either of the following kinds of business is conducted or carried on: Where cigars or tobacco are kept for sale, where paints, oils or varnish are manufactured or kept, either for use or for sale; where dry goods of any kind, toys or other light material of a combustible nature are kept for sale; any carpenter shop, any drug store, any building a license for the sale at which of kerosene or other product of petroleum has been issued, or any building in which fireworks of any kind, petroleum or any of its products, coal oil, camphene, burning fluid or other products or compounds containing any of said substances, matches or cartridges (unless such cartridges are kept in a fire-proof safe or vault); tar, pitch, rosin or turpentine, hay, cotton or hemp are manufactured, stored or kept on sale.

3. No permit will be issued for such sales in any frame or wooden building.

4. No such permit will be issued for any building in which any person other than the applicant or his family resides.

5. No permit will be issued for such sales to be made within that portion of the city bounded as follows, viz.: By Chambers street to West Broadway, by West Broadway, South Fifth avenue and Fifth avenue to Fourteenth street, by Fourteenth street to Sixth avenue, by Sixth avenue to Twenty-third street, by Twenty-third street to Fourth avenue, by Fourth avenue, Astor place and Lafayette place to Great Jones street; thence by a line running through the block to the corner of Bleecker and Crosby streets; thence by Crosby street to Howard street, by Howard street to Elm street, by Elm street to Reade street, by Reade street to Centre street and thence to Chambers street.

6. Not more than one permit will be granted for such sales to be made at premises located on any one square block. Where two or more applications are presented for one block, preference will be given to the one which, in the opinion of the Inspector of Combustibles, is least objectionable.

7. All premises for which such permits are issued must be lighted with gas or by electricity, and all lights must be protected with glass or wire coverings.

8. The person or persons to whom such permit is issued must sign an agreement not to permit smoking, nor the making or keeping of any fire, nor the use of any substance for illuminating purposes except gas and electricity, upon or about the premises where such sales are licensed, nor to expose any of the said explosives for sale outside the walls of said building, nor in any door or window, and that any violation of such agreement shall operate as a forfeiture of said license.

II.—No person shall sell or give away, or keep for sale or to give away, any explosives unless previously licensed by the Fire Commissioners; and such permit shall specify the kind and quantity of each explosive which may be sold and kept on the premises designated in the permit; the quantity allowed to be so kept on hand for sale in no case to exceed that specified in the provision of law above quoted in this article, to wit: nitro-glycerine, five (5) pounds; gun-cotton, five (5) pounds; gunpowder, fourteen (14) pounds; and blasting powder, twenty-five (25) pounds. And any other explosive not specifically named in the provision of law last referred to, shall be limited in quantity to five (5) pounds.

III.—No explosives shall be sold or exposed for sale unless the packages are marked as provided under Article Fourth.

IV.—No explosives shall be sold or exposed for sale upon any highway, road, street, avenue, public thoroughfare or public place.

V.—No high explosives more than one year old and not in perfect condition, shall be kept or sold.

VI.—No explosives shall be sold or given away to any person who is not permitted by the Fire Commissioners to use such explosives, as provided in Article Seventh.

VII.—An exact record of the date, kind and quantity of all explosives sold or purchased shall be kept by both the seller and the buyer; and such record shall at all reasonable times be open to inspection by any authorized officers of the Fire Department, who shall also be allowed to take copies of, or extracts from such records. And the seller shall also, on the first business day of each week, report all sales and deliveries of high explosives during the last preceding week, to the Inspector of Combustibles.

VIII.—Applicants shall furnish and file with the Inspector of Combustibles a bond in the penal sum of five thousand (\$5,000) dollars, with two sufficient sureties, conditioned for the payment of any loss, damage or injury resulting to persons or property by reason of the sale or keeping of such explosives.

IX.—Such permits shall be issued by the Inspector of Combustibles in the name of the Fire Commissioners, upon the payment of a fee of twenty-five (25) dollars, and shall, unless revoked by the Fire Commissioners, remain in force for one year.

X.—Such permits shall be valid only for the person or persons to whom and the particular location for which it is issued.

XI.—The Fire Commissioners reserve the right, if at any time in their judgment the public safety shall require it, to amend or add to the requirements or restrictions herein prescribed, before the expiration of any permit granted hereunder, and to require compliance with such amendment or additions.

NOTE.—Subsequently the Board adopted an amendment to the effect that all dealers in powder for sporting purposes, who have no other explosive materials in stock, and without reference to location, shall be exempted from giving bonds, and that the fee for permits for the sale of gunpowder for sporting purposes only, be fixed at five dollars.

ARTICLE SEVENTH.

THE KEEPING, CARE, AND USE OF EXPLOSIVES IN BLASTING OPERATIONS.

(Chapter 410, Laws of 1882.)

"§ 455. No person shall manufacture, have, keep, sell or give away any gunpowder, blasting-powder, gun-cotton, nitro-glycerine, dualin or any explosive oils or compounds, within the corporate limits of the city of New York, except in the quantities limited, in the manner, and upon the conditions herein provided, and under such regulations as the Board of Fire Commissioners shall prescribe. * * *"

Permits.

I.—All contractors and others now engaged in or proposing hereafter to engage in any blasting operations, shall make application for a permit to keep and use explosives, to the Inspector of Combustibles in writing, giving name, location of office or place of business, occupation, the proposed location of the magazine or hand magazine, a plan or drawing and description of the construction of such magazines, and the quantity and kind of explosives proposed to be kept therein.

II.—Upon compliance by the applicant with all the provisions of the law and of these regulations, the Inspector of Combustibles shall, upon the payment of a fee of twenty-five (25) dollars for each main magazine, and of ten (10) dollars for each hand magazine, issue a permit to such applicant, in the name of the Fire Commissioners, which permit shall remain in force, unless revoked as hereinafter provided, for one year, and may be renewed for a like period upon application, as provided in the last preceding paragraph.

III.—But no such permit shall be issued until the applicant has furnished and filed with the Inspector of Combustibles a bond in the penal sum of five thousand (\$5,000) dollars, with two sufficient securities, conditioned for the payment of any loss, damage or injury resulting to persons or property by reason of the keeping or use of such explosives.

IV.—Such permit shall be valid only for the person or persons to whom it is issued, and for such locations as may be approved and indorsed upon the permit by the Inspector of Combustibles, who must be promptly notified of any intended change of location.

V.—The permits shall specify all the particulars stated in the application made therefor, with such amendments as may have been made thereto.

VI.—The Fire Commissioners reserve the right, if at any time in their judgment the public safety shall require it, to amend or add to the requirements or restrictions herein prescribed, before the expiration of any permit granted hereunder, and to require compliance with such amendment or additions.

Main Magazines.

VII.—These magazines shall be well and substantially built of brick, stone or concrete, or they shall be excavated in solid rock, earth, or mine refuse not liable to take fire; and all shall be so constructed and inclosed as to prevent access thereto by unauthorized persons, and to secure them against danger from without. And each magazine shall have a registered number.

VIII.—They shall be entirely separated from all buildings, structures or works herein designated as "protected structures, etc.," which are of two classes, as follows:

1. Protected structures, etc., of the first-class comprise all buildings used for dwelling or manufacturing purposes, workshops, furnaces or fire-places for boilers, engines or other machinery, provided the same are occupied by the licensee, or that the persons occupying them consent, in writing, to the proposed location of the magazine, which consent shall be filed with the application for the permit. All highways, roads, streets or avenues, open places of public resort, canals and other navigable waters, docks, piers, sea-walls or reservoirs, are also comprised in this class.

2. Protected structures, etc., of the second-class, comprise all structures, etc., not in the first class, and also all buildings used for religious, educational, charitable or public purposes, or for purposes of amusement or instruction.

IX.—These magazines shall not be used for keeping explosives except under the following restrictions as to their distance from any protected structure, etc., of either class, and as to the maximum quantity of explosives which may be kept therein:

1. If the magazine is not less than fifty (50) yards from the nearest protected structure, etc., of the first class, and one hundred (100) yards from the nearest protected structure, etc., of the second class, the quantity of blasting-powder which may be kept therein shall not exceed five hundred (500) pounds, or in lieu of each pound of blasting powder less than this maximum quantity one-half (½) pound of any high explosive may be kept therein.

2. If the magazine is not less than seventy-five (75) yards from the nearest protected structure, etc., of the first class, and one hundred and fifty (150) yards from the nearest protected structure, etc., of the second class, the quantity of blasting-powder which may be kept therein shall not exceed one thousand one hundred and twenty (1,120) pounds, or in lieu of each pound of blasting powder less than this maximum quantity, one-half (½) pound of any high explosive may be kept therein.

X.—Should the conditions as to the distance of a magazine from protected structures, etc., of either class, as herein above prescribed, at any time during the continuance of the permit, so change as to make it necessary to lessen the quantity of explosives to be kept in such magazine in order to conform to the provisions of the last preceding paragraph, immediate report of such change of conditions shall be made by the licensee to the Inspector of Combustibles; and any failure to comply with this requirement shall involve the forfeiture of the permit, and subject the person or persons guilty of such violation to the penalty provided by law for keeping such explosives without a permit.

XI.—No detonators shall be kept in a magazine licensed for keeping high explosives.

XII.—The magazine shall be used only for the keeping of the explosives specified in the permit.

XIII.—The interior of the magazine and the necessary shelves and fixtures therein shall be so constructed, or so lined or covered, as to prevent the exposure of any iron or steel, or the detaching of any grit, iron or steel, or similar substance, in such a manner as to allow such substances to come in contact with the explosive, and such interior shelves and fittings shall be kept clean and free from grit.

XIV.—Unless the magazine is in an excavation, or is licensed for keeping not more than five hundred (500) pounds of blasting-powder, etc., it shall be protected by a sufficient lightning conductor.

XV.—Before any repairs or alterations are made to any magazine or to any part thereof, all explosives shall be carefully removed therefrom, and it shall be thoroughly washed out, and all tools or implements used in making such repairs and alterations, shall be of wood, copper or brass, or other soft metal or material, or the same shall be covered with some safe and suitable material.

XVI.—No fire, matches, or any substance or article liable to cause explosion or fire, or any iron, steel or grit, shall be permitted in any such magazine.

XVII.—No person shall be allowed to enter any such magazine wearing ordinary boots or shoes, unless the same are protected with rubber boots or overshoes.

XVIII.—As nitro-glycerine mixtures are dangerously affected by water, all magazines in which such explosives are kept must be thoroughly protected against moisture.

XIX.—Smoking must not be permitted in such magazines.

XX.—No person under the age of twenty-one (21) years must be permitted to enter such magazine, except in the presence and under the direction of an adult authorized to enter the same.

XXI.—A copy of these rules, as furnished, and the permit must be kept conspicuously posted up in such magazine in such a manner that they can be conveniently read.

XXII.—Upon the outside of, or near to such magazine, there shall be placed a painted sign with the words "Danger—Magazine for explosives" in black letters not less than one (1) foot high on a white ground; and in addition thereto there shall be displayed upon, or near the magazine, a red flag not less than one (1) yard square during daylight, and in lieu thereof at night, a red lantern properly lighted.

XXIII.—Only such cartridges as are in perfect condition and which are not more than eighteen (18) months old, shall be kept in such magazine.

Hand Magazines.

XXIV.—The hand magazines, in which high explosives are kept, shall be so constructed as to protect the cartridges from being frozen or getting moist, and shall be closed to secure them against danger from without, and to prevent access to them by unauthorized persons. And each magazine shall have a registered number.

XXV.—Caps, detonators or exploders shall be kept at least fifteen (15) feet distant from the hand magazine.

XXVI.—Only such cartridges as are in perfect condition and which are not more than eighteen (18) months old, shall be kept in such magazines.

XXVII.—The cartridges shall be furnished to the men only in such small quantities as the necessities of the moment require.

XXVIII.—The hand magazines shall be entirely separated from all buildings and structures designated as "protected structures, etc.," in Paragraph VIII. of this article, as follows:

1. If the magazine is not less than eighteen (18) yards from the nearest other hand magazine and from the nearest protected structure, etc., of the first class, and thirty-six (36) yards from the nearest protected structure, etc., of the second class, the quantity of blasting-powder which may be kept therein shall not exceed sixty (60) pounds, or in lieu of each pound of blasting-powder less than this maximum quantity, one-half (½) pound of any high explosive.

2. If the magazine is not less than twenty-five (25) yards from the nearest protected structure, etc., of the first class, and fifty (50) yards from the nearest protected structure, etc., of the second class, the quantity of blasting-powder which may be kept therein shall not exceed one hundred and twenty-five (125) pounds, or in lieu of each pound of blasting-powder less than this maximum quantity, one-half (½) pound of any high explosive.

XXIX.—No tools or implements of any kind shall be kept in a hand magazine.

XXX.—On other than working days, and from the time when work is suspended until it is resumed, all hand magazines shall be guarded by sober and reliable watchmen.

XXXI.—No person under the age of twenty-one (21) years must be permitted to enter or open a hand magazine, except in the presence and under the direction of an adult authorized to enter and open the same.

XXXII.—To prevent the freezing of nitro-glycerine mixtures during cold weather (when the temperature is below 54 degrees Fahrenheit), the magazine shall be surrounded with fresh horse manure.

Directions for the Use of Explosives in Blasting Operations.

XXXIII.—The cartridges delivered to the men shall be protected by them against frost, moisture, fire and contact with iron, steel or grit.

XXXIV.—It is forbidden to use cartridges, frozen or only partly thawed out.

XXXV.—It is forbidden to warm frozen cartridges by direct exposure to fire, by keeping them before fire-places, by putting them on stoves or in ovens, or by laying them on hot ashes.

1. It is required that frozen cartridges shall be returned to the foreman in charge and shall not be re-issued for use until they are thoroughly thawed out.

2. It is required, in thawing out frozen high explosives, that one of the two following methods shall be observed, the first being the safest and most practicable for large quantities and therefore preferable:

Put the boxes containing the explosives in fresh horse manure, or entirely surround the magazine therewith.

Put the cartridges in a double vessel, consisting of two water-tight tin kettles or pots, so made that one shall fit inside of the other and leave a space for water (which must be lukewarm), between the bottoms and sides.

XXXVI.—It is forbidden to attempt to break or cut cartridges entirely or partly frozen.

XXXVII.—It is forbidden to prime more cartridges with fuses and detonators than are actually needed at the moment, or to keep on hand such primed cartridges.

XXXVIII.—It is forbidden to use metallic rammers in tamping drill-hole charges.

XXXIX.—It is forbidden to "bring home" the tamping by powerful strokes.

XL.—It is forbidden to introduce into a drill-hole more than one primer, or to roughly handle the primer, especially while placing it on top of the charge, or while tamping it.

XLI.—It is forbidden to approach a drill-hole charge which failed to explode without waiting at least ten minutes, counted from the time of setting fire to its fuse.

XLII.—It is forbidden to remove the tamping of a charged drill-hole.

XLIII.—It is required, in case an attempt to fire a "missed blast" by means of exploding a strong primer on top of it is unsuccessful, that a new hole be drilled not nearer than twelve (12) inches from the first one, and a fresh charge put in (that being the safest method), the explosion of which will probably be communicated to the first charge, or if it is not, will at least dislodge it. But the distance between these holes must be increased if there is any reason to believe that the nitro-glycerine mixture of the first charge has spread laterally.

XLIV.—It is forbidden, in case the explosion of a charge does not carry away the whole drill-hole, leaving the lower part intact, to use the remaining part of the old drill-hole as a starting point for a new drill-hole; because portions of the former charge may remain and explode when exposed to the blows of percussion drills.

XLV.—It is forbidden to allow boys under twenty-one (21) years of age, or men who can not read English, or are uninstructed in the care of high explosives, to be in the vicinity of hand magazines or to handle such explosives.

XLVI.—It is required that, to insure the safety of surrounding property and of persons in the vicinity, no larger charge shall ever be used than is necessary to properly start the rock.

XLVII.—It is required that rock excavations contiguous to any structure, shall be so carried on as not to cause any damage to such structures. To secure this, weak walls, etc., of such structures must be shored up; and all rotten or decomposed rock must be removed by the use of gads, picks and crow-bars only. When blasting next to such structures is unavoidable, light face blasts only, with short lines of resistance and small charges shall be used.

XLVIII.—It is required that only careful, reliable and thoroughly experienced foremen shall be employed in blasting operations.

XLIX.—It is required that, in the neighborhood of roads, houses and objects which may be damaged by blasts, the shots shall be carefully covered (preferably with brush mattresses, fascines and the like), and the charges shall be so reduced in size that no flying about of debris shall be possible. Red flags shall be placed at reasonable distances from the blast on all sides; a whistle shall also be blown, or a bell rung, five minutes before the explosion takes place, to give all persons proper warning. Men shall also be stationed at the doors of houses in the immediate vicinity and on the different highways and sidewalks to caution all persons against approaching the blast.

ARTICLE EIGHTH.

INSPECTION AND SEIZURE.

(Chapter 410, Laws of 1882.)

"§ 463. The commissioners and their officers or agents, under the direction of said commissioners or either of them, are hereby empowered at any and all times to enter into and examine all buildings, dwelling-houses, livery and other stables, hay-boats, or vessels and places where any merchandise, gunpowder, hemp, flax, tow, hay, rushes, firewood, boards, shingles, shavings or other combustible materials may be lodged, for the purpose of ascertaining all violations of any of the provisions of this title, and also the places where ashes may be deposited, and upon finding that any of them are defective or dangerous, or that a violation of this title exists therein, may deliver a written or printed notice, containing an extract from this title, of the provisions in reference thereto, and notice of any violation thereof, and notice to remove, amend or secure the same within a period to be fixed therein. And in case of neglect or refusal on the part of such occupant or of the possessor of such combustible materials, or any of them, so to remove, amend or secure the same within the time and in the manner directed by the said commissioners in such notice, the party offending shall forfeit and pay, in addition to any penalty otherwise imposed, the sum of twenty-five dollars, and the further sum of five dollars for every day's neglect to remove, amend or secure the same after being so notified. All the expenses of any removal, alteration or amendment as aforesaid, shall be paid in the first instance by the occupant, but shall be chargeable against the owner of such dwelling-house or other building, and shall be deducted from the rent of the same, unless such expense be rendered necessary by the act or default of such occupant, or unless there be a special agreement to the contrary between the parties."

"§ 445. * * * All gunpowder, gun-cotton, blasting-powder, dualin, nitro-glycerine, or other explosive compound found in violation of this section, shall be forthwith seized and safely stored, and be sold, upon three days' notice to the owner or claimant, and the proceeds of such sale, after deducting all expenses, shall be forfeited and paid over to and for the use and benefit of the relief fund of the Fire Department of the City of New York. * * *"

I.—Any inspecting officer of the Fire Department discovering any violation of any provision of law quoted or referred to in these regulations, or any violation of any provision of these regulations, shall, at the time of making such discovery, serve upon the owner or possessor of the explosives so found to be packed, transported, offered for sale, stored or used, in contravention of the law or of these regulations, or in the absence of such owner or occupant, upon the person found in charge of such explosives for the time being, a notice, issued in the name of the Fire Commissioners, specifying the nature of the violation found and requiring the violation to be removed, with due regard to the public safety, within a reasonable time, to be definitely stated in the notice by such Inspector, which notice shall be made out upon a form to be provided for that purpose.

II.—The Inspectors shall make daily reports in writing to the Inspector of Combustibles, of the buildings, premises, etc., visited, and their actions and operations during the preceding day, and they shall make a special report of every violation found, and of their action and recommendations in such cases.

III.—If, in the judgment of an Inspector, there is at any time urgent need of immediate action by, or of instructions from the Inspector of Combustibles, with reference to any violation found by them, they shall at once report the same to him by the nearest department or other telephone station, or by messenger or in person.

IV.—In case it becomes necessary, under the provisions of law quoted at the beginning of this article, to seize explosives for violation of the law or of these regulations, such seizure must be made promptly and reported at once.

ARTICLE NINTH.

PENALTIES FOR VIOLATION OF THE LAWS OR REGULATIONS.

(Chapter 410, Laws of 1882.)

Enforcement of this Act—Suits or Actions, how Brought—Duties of Attorney to the Department—Settlement of Suits or Judgments.

"§ 431. The Board of Fire Commissioners is hereby authorized, empowered, and especially charged with the duties of enforcing the several provisions of this chapter, and may, subject to the other provisions of this act, incur any expense necessary and proper therefor, and said Board is hereby authorized and empowered to receive and collect all license fees mentioned in this chapter, and to sue for, and shall have the exclusive right of recovery of, any and all penalties imposed under this chapter, and may sue for and recover and collect the same, with costs, in the manner provided for in actions under the Code of Civil Procedure, and shall apply the same to the uses and purposes of the relief fund of the Fire Department in the city of New York, and the said Board may bring any suit or action for the enforcement of its rights and contracts, and for the protection, possession, and maintenance of the property under the control of said department; and any action to recover any fee, fine or penalty under this chapter may be brought in any of the district courts in said city, and the attorney to the Fire Department shall, under the direction of said Board, take charge of the prosecution of all suits or proceedings instituted for the recovery and collection of penalties, and the enforcement of the several provisions of this chapter; collect and receive all moneys upon judgments, suits, or proceedings so instituted; pay all costs and disbursements, and discontinue suits and proceedings, and execute satisfaction of judgments upon payment of penalties, or costs, and in compliance with orders made in such suits and proceedings; shall keep a correct and accurate register of all suits and proceedings, and account for all moneys received and paid out thereon; and shall pay over to the treasurer of the relief fund the amount of all license fees, penalties and moneys received and collected by him, and the said Board is authorized to settle or compromise any such suit or judgment for less than the amount of the same, in case, in their judgment, they are satisfied that payment of the full amount cannot be collected."

Liability in Action for Damages.

"§ 459. In case any person is burned by the explosion of any compound, the sale of which is prohibited by any section of this title, or has not been subjected to sanitary survey, or licensed as therein provided, and death ensues therefrom, the person found guilty of selling the same shall be deemed guilty of a felony, and, upon conviction, shall be punished by a fine of not less than one

thousand dollars, nor more than five thousand dollars, or by imprisonment in the State prison for a term not less than one year nor more than five years; and in case of a bodily injury the party injured may maintain an action for damages against the party violating the provisions of this title. * * *"

Right to Enter Stables, Vessels, etc.—Notice to Remove or Secure Combustible Material—Collection of Expense of Removal.

"§ 463. The commissioners and their officers or agents, under the direction of said commissioners or either of them, are hereby empowered at any and all times to enter into and examine all buildings, dwelling-houses, livery and other stables, hay boats or vessels, and places where any merchandise, gunpowder, hemp, flax, tow, hay, rushes, firewood, boards, shingles, shavings or other combustible materials may be lodged, for the purpose of ascertaining all violations of any of the provisions of this title, and also the places where ashes may be deposited, and upon finding that any of them are defective or dangerous, or that a violation of this title exists therein, may deliver a written or printed notice, containing an extract from this title, of the provisions in reference thereto, and notice of any violation thereof, and notice to remove, amend or secure the same within a period to be fixed therein. And in case of neglect or refusal on the part of such occupant or of the possessor of such combustible materials, or any of them, so to remove, amend or secure the same within the time and in the manner directed by the said commissioners in such notice, the party offending shall forfeit and pay, in addition to any penalty otherwise imposed, the sum of twenty-five dollars, and the further sum of five dollars for every day's neglect to remove, amend or secure the same after being so notified. All the expenses of any removal, alteration or amendment as aforesaid, shall be paid in the first instance by the occupant, but shall be chargeable against the owner of such dwelling-house or other building, and shall be deducted from the rent of the same unless such expense be rendered necessary by the act or default of such occupant, or unless there be a special agreement to the contrary between the parties."

Non-enumerated Fines and Penalties—Part may be Paid to Informer.

"§ 465. Any person, persons or corporation, for the violation of, or non-compliance with, any of the several provisions of the several sections of this title, when the penalty is not therein specially provided, shall severally forfeit and pay a fine or penalty in the sum of fifty dollars for each and every offense, or shall forfeit and pay the penalties respectively imposed under any of said sections, and shall also be severally liable for the removal, amendment or abatement of any violation of, or non-compliance with, any requirement under said sections, and shall also be severally liable for the payment of the further penalty of the sum of fifty dollars for any violation of, or non-compliance with, any regulation, order or special direction issued by said commissioners, as authorized under this chapter. Said commissioners may, in their discretion, pay a portion of a fine or penalty, when collected, not to exceed one-half thereof, to an informer."

I.—Violations of any of the provisions of law quoted in these regulations, or any of the provisions of these regulations, shall, at the option of the Fire Commissioners, be punishable, in addition to the penalties prescribed by law, by a revocation of any permit granted thereunder.

ARTICLE TENTH.

NOTES ON THE PROPERTIES OF CERTAIN HIGH EXPLOSIVES.

I.—Pure nitro-glycerine, at 60 degrees Fahrenheit, has a specific gravity of 1.6. It is odorless, nearly colorless, and has a sweetish, burning taste. It is poisonous. Handling it is apt to cause headache. It is slightly soluble in water. It will explode when heated to a temperature of about 356 degrees Fahrenheit.

II.—These properties undergo no change when nitro-glycerine is absorbed by other substances, in forming nitro-glycerine mixtures or dynamites such as those enumerated in the paragraph defining the term "high explosives."

III.—The temperature at which nitro-glycerine mixtures freeze varies from 39 degrees to 53 degrees Fahrenheit, according to the difference in the methods of manufacture and the quality of the nitro-glycerine used. The use of such substances as silicious marl ("Kieselguhr") as an absorbent in the manufacture of Dynamite or Giant Powder No. 1, undoubtedly hastens their freezing.

IV.—Reliable experiments made in Austria show that frozen nitro-glycerine mixtures are less liable to explode from mechanical shocks than when they are not frozen.

V.—When, however, the nitro-glycerine mixture is in a partly frozen condition, or when it is either in process of freezing or of thawing, its sensitiveness to explosion is greater than when in its normal condition; and it is then especially liable to be exploded by repeated light shocks, such as are produced in the operation of packing, transportation, etc. The experience both of the laboratory and of the factory confirms these views.

VI.—As before stated, nitro-glycerine mixtures explode at a temperature of about 356 degrees Fahrenheit. They also explode by percussion, concussion, friction, pressure, etc., viz.: by any act converting mechanical energy into heat.

VII.—By the use of fulminate of mercury caps as an initiatory explosive the entire mass of a nitro-glycerine mixture is converted into gas with such suddenness that it may practically be considered instantaneous; this sudden effect is termed "detonation."

VIII.—In dynamites containing a large percentage of nitro-glycerine, the latter is liable to exude, or ooze out. This is especially so in warm weather, or in thawing out at high temperatures.

IX.—Exposure to water is injurious to dynamites. In the high grades the water, by its greater affinity for the inexplosive absorbent (Kieselguhr), drives out the nitro-glycerine; in the lower grades it is apt to dissolve the salts (nitrates of potash or soda, etc.) contained in the explosive absorbent, thus setting free the nitro-glycerine.

X.—Nitro-glycerine mixtures are usually put up and sold in cylindrical paper shells or cases, in "cartridge" form. These cartridges are furnished to order of any required diameter and length, and are packed in boxes containing each twenty-five (25) or fifty (50) pounds.

These regulations shall go into effect on July 1, 1889, and all permits issued prior to that date shall thereby be revoked.

BUREAU OF INSPECTION OF BUILDINGS.

Plans and Specifications for New Buildings Filed and Acted Upon.

CLASSIFICATION.	Pending last Report.	Received since.	Total.	Approved.	Amended and Approved.	Disapproved.	Now pending.	Total.	ESTIMATED COST.
Dwelling houses—Estimated cost over \$50,000.	..	4	4	..	2	2	..	4	\$485,000 00
Dwelling-houses—Estimated cost between \$20,000 and \$50,000.	..	238	238	36	185	17	..	238	6,161,300 00
Dwelling houses—Estimated cost less than \$20,000.	1	524	525	177	304	44	..	525	5,927,050 00
Flats and tenements—Estimated cost over \$15,000.	4	1,351	1,355	352	925	74	4	1,355	32,073,500 00
Tenement-houses—Estimated cost less than \$15,000.	2	192	194	71	114	9	..	194	2,299,900 00
Hotels and boarding-houses.	..	16	16	3	7	6	..	16	2,193,000 00
Stores—Estimated cost over \$30,000.	..	52	52	11	33	8	..	52	4,669,000 00
Stores—Estimated cost between \$15,000 and \$30,000.	..	45	45	7	35	3	..	45	953,700 00
Stores—Estimated cost less than \$15,000.	..	53	51	17	30	6	..	53	236,070 00
Office buildings.	1	21	22	9	9	4	..	22	2,913,750 00
Manufactories and workshops.	..	151	151	39	91	21	..	151	2,797,100 00
School-houses.	1	10	11	3	5	3	..	11	768,000 00
Churches.	..	25	25	2	20	3	..	25	1,109,800 00
Public buildings—Municipal.	..	5	5	3	1	1	..	5	139,435 00
Public buildings—Places of amusement, etc.	1	31	32	10	14	8	..	32	3,698,247 00
Stables.	1	84	85	32	46	7	..	85	976,275 00
Frame dwellings.	..	501	501	265	198	31	7	501	1,420,925 00
Other frame structures.	..	904	904	732	96	76	..	904	382,540 00
Totals.	11	4,207	4,218	1,769	2,115	323	11	4,218	\$69,504,872 00

Plans and Specifications for Alterations to Buildings Filed and Acted Upon.

CLASSIFICATION.	Pending last Report.	Received since.	Total.	Approved.	Amended and Approved.	Disapproved.	Now pending.	Total.	ESTIMATED COST.
Dwelling-houses	2	629	631	343	245	40	3	631	\$1,470,391 00
Flats	1	100	101	46	34	21	..	101	564,245 00
Tenement-houses	3	477	480	288	157	30	5	480	544,238 00
Hotels and boarding-houses	2	52	54	20	25	9	..	54	247,070 00
Stores .....	..	253	253	127	86	34	6	253	649,276 00
Office buildings .....	..	73	73	29	37	6	1	73	729,803 00
Manufactories and workshops	3	278	281	129	110	39	3	281	857,341 00
School-houses .....	..	11	11	10	..	..	1	11	22,340 00
Churches .....	..	22	22	10	10	2	..	22	156,910 00
Public buildings .....	..	106	106	57	42	7	..	106	660,110 00
Stables .....	..	51	51	18	26	6	1	51	186,046 00
Frame buildings .....	..	463	463	287	114	60	2	463	320,174 00
Totals	11	2,515	2,526	1,364	886	254	22	2,526	\$6,407,941 00

Number of applications for permits for new buildings and alterations, 4,871, which includes 589 special permits for street stands erected for the Centennial Parades.

Complaints Received and Investigated.

NATURE.	Pending last Report.	Received since.	Total.	Unfounded.	Remedied on Verbal Notice.	Notices to be Issued.	Total.	Now pending.
Defective flues	2	65	67	44	17	6	67	..
Defective construction and materials	5	41	46	29	1	10	40	6
Defective leaders	92	632	724	243	67	335	645	79
Electric current without cut-offs outside of building .....	..	5	5	1	1	2	4	1
Erecting and altering without permit	7	93	100	54	4	36	94	6
Frame structures erected or removed without permit ..	12	154	166	64	5	92	161	5
Front iron shutters which cannot be opened from the outside	3	101	104	6	1	65	72	32
Hoistway openings not guarded .....	..	21	21	6	1	10	17	4
Insufficient means of escape, fire-escapes out of repair, etc.	220	1,015	1,235	283	91	514	888	347
No iron shutters	3	13	16	3	..	11	14	2
Stairway openings floored over	2	1	3	..	1	1	2	1
Steam-pipes too near woodwork .....	..	5	5	4	..	..	4	1
Unsafe buildings	19	848	867	413	38	384	835	32
Unsafe freight elevators .....	..	8	8	6	..	2	8	..
Totals	365	3,002	3,367	1,156	227	1,468	2,851	516

Passenger Elevators.

Number inspected	2,444
Found to be in good order and fit for use	2,316
Found not in compliance with the law	128

Disposition of Cases found not in Compliance with Law.

Pending last report	4
Received since	128
Complied with law on notice	132
Now pending	86
Forwarded for prosecution	46
Forwarded for prosecution	18

Violations of Law and Unsafe Buildings.

NATURE.	Pending last Report.	Received since.	Total for Disposition.	Removed before Action by Courts.	Removed on Order of Courts.	Dismissed by Courts.	Discontinued.	Total Final Disposition.	Now pending.	Forwarded for Prosecution.
Defective construction, materials, etc.	198	864	1,062	790	..	2	62	854	208	718
Erecting, altering or removing without permit, or after disapproval	227	766	993	707	4	6	36	753	240	651
Insufficient means of escape, fire-escapes, aisles obstructed, etc.	926	3,068	3,994	2,618	1	7	567	3,193	801	1,752
Unsafe buildings	389	1,162	1,551	1,253	8	..	59	1,320	231	56
Totals	1,740	5,860	7,600	5,368	13	15	724	6,120	1,480	3,177

Notices Issued.

To place fire-escapes on buildings	4,108
To remove violations of law	2,007
To repair passenger elevators	153
To remove unsafe buildings	1,739
Of disapproval of plans	780
Total	8,787

Proceedings of Board of Examiners.

Number of meetings held	53
Number of cases acted upon	368
Number of applicants for appointment as Inspectors examined	30
Found qualified	13
Not qualified	17

Petitions for Modification of the Law.

	APPROVED.	DISAPPROVED.	TOTAL.
New buildings	182	15	197
Alterations	124	20	144
Iron shutters	11	16	27
Totals	317	51	368

Location of Buildings Commenced and Completed During the Year.

LOCATION.	COMMENCED.	COMPLETED.
South of Chambers street	24	16
Between Chambers and Houston streets	240	189
Between Houston and Twenty-third streets	183	156
Between Twenty-third and Fifty-ninth streets	246	253
Between Fifty-ninth and One Hundred and Tenth streets, east of Fifth avenue	417	428
Between Fifty-ninth and One Hundred and Tenth streets, west of Fifth avenue	736	571
Between One Hundred and Tenth street and Harlem river, east of Eighth avenue	463	482
Between One Hundred and Tenth street and Harlem river, west of Eighth avenue	175	169
North of Harlem river, south of One Hundred and Seventy-seventh street	555	581
North of Harlem river, north of One Hundred and Seventy-seventh street	143	276
Total, 1889	3,282	3,121
Total, 1888	2,691	3,245

ATTORNEY TO THE DEPARTMENT.

Violations of Law Relating to Combustibles, etc.

NATURE OF VIOLATIONS.	FOR DISPOSITION.			DISPOSED OF							Now Pending.
	Pending last Report.	Received since.	Total.	BEFORE COMMENCEMENT OF LITIGATION.		AFTER COMMENCEMENT OF LITIGATION.					
				Recalled—Violations Removed.	Recalled for other Reasons.	Violations Removed before Trial.	Judgment for Department.	Penalty Paid and Discontinued.	Dismissed.	Total.	
Selling kerosene oil without license.....	..	10	10	..	..	..	..	..	3	3	7
Hoistways found open after conclusion of business.....	1	..	1	..	..	..	1	..	..	1	..
Fireworks, chemicals, matches, etc., kept without permit.....	4	..	4	..	3	1	..	..	..	4	..
Failure to provide telegraphic communication.	..	1	1	..	..	..	..	..	..	..	1
Totals.....	5	11	16	..	3	1	1	..	3	8	8

Violations of Law Relating to Buildings.

NATURE OF VIOLATIONS.	FOR DISPOSITION.			DISPOSED OF.								Now Pending.
	Pending last Report.	Received since.	Total.	BEFORE COMMENCEMENT OF LITIGATION.		AFTER COMMENCEMENT OF LITIGATION.						
				Recalled—Violations Removed.	Recalled for other Reasons.	Violations Removed before Trial.	Violations Removed after Judgment.	Dismissed by Court.	Dismissed for Irregularity or Insufficiency of Papers.	Total.		
Defective construction, materials, etc.....	193	718	911	543	40	97	12	2	24	718	193	
Erecting, altering or removing without permit or after disapproval.....	175	651	826	438	12	118	36	6	18	628	198	
Insufficient means of escape, fire-escapes, aisles obstructed, etc.....	348	1,752	2,100	948	311	293	70	7	58	1,687	413	
Unsafe buildings.....	28	51	79	...	..	48	12	..	8	68	11
Defective elevators.....	1	18	19	9	..	..	..	..	1	10	9
Totals.....	745	3,190	3,935	1,938	363	556	130	15	109	3,111	824	

Miscellaneous Business.

NATURE.	PENDING LAST REPORT.	RECEIVED.	TOTAL.	DISPOSED OF.	NOW PENDING.
Opinions required	1	11	12	12	..
Hotel cases, rope fire-escapes	84	..	84	..	84
Totals	85	11	96	12	84

Money Received.

Violations of building laws—	
On hand, last report.....	\$135 00
Received—	
Violation case No. 570 of 1887—Judgment.....	50 00
Violation case No. 1361 of 1888—Judgment.....	50 00
Fire-escape case No. 1167 of 1888—Judgment.....	50 00
Elevator case No. 4156 of 1888—Judgment.....	100 00
Fire-escape case No. 927 of 1888—Judgment.....	50 00
Fire-escape case No. 751 of 1888—Costs.....	10 00
Violation case Nos. 327 and 341 of 1888—Costs.....	10 00
Unsafe case No. 755 of 1886—Survey fee.....	25 00
Fire-escape case No. 500 of 1887—Costs.....	10 00
Unsafe case No. 998 of 1886—Survey fee.....	25 00
Violation case No. 24 of 1889—Judgment.....	100 00
Fire-escape case No. 327 of 1888—Costs.....	10 00
Violation case No. 97 of 1883—Costs.....	3 06
Violation case No. 629 of 1888—Judgment.....	50 00
Unsafe case No. 948 of 1886—Survey fee.....	25 00
Violation case No. 16 of 1889—Judgment.....	100 00
Fire-escape case No. 2871 of 1888—Costs.....	5 00
Violation case No. 327 of 1889—Judgment.....	100 00
Violation case No. 1941 of 1884—Costs.....	10 78
Violation case Nos. 167 and 244 of 1886—Costs.....	10 00
Violation case No. 272 of 1889—Judgment.....	100 00
Violation case No. 469 of 1888—Judgment.....	107 80
Unsafe case Nos. 530 and 532 of 1889—Survey fees.....	75 00
	\$1,211 64
Paid to the Comptroller, as required by law.....	1,136 64
Balance on hand.....	\$75 00

Cases Against the Department.

NAME OF PLAINTIFF.	Pending last report.	Received.	NATURE OF ACTION.	DISPOSED OF.	Now Pending.
The People ex rel. Timothy Sullivan, No. 1.....	1	..	Certiorari to review removal.....	.....	1
The People ex rel. Timothy Sullivan, No. 3.....	1	..	Certiorari to review removal.....	.....	1
The People ex rel. Peter H. Short.....	1	..	Certiorari to review removal.....	Writ dismissed.....	..
The People ex rel. Francis J. Reilly.....	1	..	Certiorari to review removal.....	Discontinued.....	..
The People ex rel. John Davis.....	1	..	Certiorari to review removal.....	.....	1
The People ex rel. William J. O'Connor.....	1	..	Certiorari to review removal.....	.....	1
The People ex rel. Jos. Keegan.....	1	..	Certiorari to review removal.....	.....	1
The People ex rel. John Gillespie.....	..	1	Certiorari to review removal.....	.....	1
The People ex rel. Patrick H. Breen.....	..	1	Certiorari to review removal.....	.....	1
The People ex rel. Alex. Hicinbotham.....	..	1	Certiorari to review removal.....	.....	1
The People ex rel. S. W. Ehrich and another.....	..	1	Application for mandamus.....	Granted.....	..
Thomas O'Connor.....	1	..	Damages for personal injuries.....	.....	1
Mary E. Pinckney, administratrix.....	1	..	Damages for personal injuries.....	.....	1
James O'Brien.....	1	..	Damages for personal injuries.....	.....	1
Josephine Donnelly, an infant.....	1	..	Damages for personal injuries.....	Discontinued.....	..
	11	4		4	11

FIRE-ALARM TELEGRAPH.

The amount of labor and material expended upon the circuits to maintain the efficiency of the fire-alarm telegraph, was unusually large during the year, in consequence of the constant interferences caused principally by the extensive removal of poles and wires by workmen engaged under the direction of the Board of Electrical Control.

Changes and removal of poles which have been effected in certain localities have made it necessary to re-run many overhead circuits, involving considerable labor and time on the part of the Department's employees.

All of the fire-alarm telegraph poles have been removed from the Broadway and Sixth avenue subway routes from and including Fifty-eighth street, Fourth street, South Fifth avenue, West Broadway and Church street to Bowling Green, except a few poles on South Fifth avenue which are still required. The removal of many poles and wires from adjacent streets was also made possible by adapting the circuits thereon to the subways.

Old poles on and adjacent to lines of subways cannot always be removed at once, because many of them are upon long routes, and are needed for circuits which cannot be put under ground before a complete subway system has been provided. Some lines of large poles remain, from which most of the wires have been removed, now carrying but a few, and in many cases but a single wire. These cannot be disturbed before further provision for subway work is made; and unless a liberal appropriation is made for such work in the immediate future, a considerable expenditure will be necessitated for reconstruction of portions of the overhead system. The authority granted to telegraph companies to put their wires upon the elevated railroad structure has enabled them to abandon several lines of poles, among which are some that were constructed by them for this Department and occupied by its wires; no subways having been provided upon such routes, and permission to attach the wires of the fire-alarm system to the elevated railroad structure having been denied, it is at present impracticable to remove such lines of poles.

The transferring of the circuits to the subways, which was begun during the year 1888, has been continued as extensively as the amount appropriated would permit and as expeditiously as practicable, but the work is prosecuted under many disadvantages. The splicing of cables with many conductors must be made by expert workmen, with great care, and cannot be done in wet weather. The work is also delayed by the impossibility of gaining access to the subway manholes, for entire days at a time, owing to stormy weather, or to their occupancy by men engaged in other subway work.

The plan which has been adopted of extending the cables, where possible, from subway manholes to lamp-post boxes, and providing therewith facilities for making splices, without opening the manholes, will, it is believed, be of great advantage, and its continuance in future work is recommended.

The second contract for subway work will soon be completed. Nearly all of the cable is laid, and the splicing up and connecting of stations is progressing. When this is finished, the number of companies which will have direct subway connection from Headquarters will have been increased from twelve, at last report, to twenty-six, as follows:

Engine Company No. 4, No. 39 Liberty street.
" " 6, No. 100 Cedar street.
" " 10, No. 8 Stone street.
" " 12, No. 261 William street.
" " 13, No. 99 Wooster street.
" " 14, No. 14 East Eighteenth street.
" " 18, No. 132 West Tenth street.
" " 20, No. 47 Marion street.
" " 23, No. 235 West Fifty-eighth street.
" " 27, No. 173 Franklin street.
" " 29, No. 193 Fulton street.
" " 30, No. 253 Spring street.
" " 31, No. 116 Leonard street.
" " 32, No. 108 John street.
" " 33, No. 15 Great Jones street.
" " 39, No. 157 East Sixty-seventh street.
" " 54, No. 304 West Forty-seventh street.
" " 55, No. 173 Elm street.
Hook and Ladder Company No. 3, No. 108 East Thirteenth street.
" " " No. 788 Eighth avenue.
" " " 8, No. 7 North Moore street.

Hook and Ladder Company No. 9, No. 209 Elizabeth street.
" " " 10, No. 191 Fulton street.
" " " 15, Old Slip, between Water and Front streets.
" " " 16, No. 159 East Sixty-seventh street.
" " " 20, No. 157 Mercer street.

Connection has also been made with the Repair Shops, No. 130 West Third street, and Police Headquarters, No. 300 Mulberry street.

Short loops from convenient points (overhead connections) have been made from the underground circuits to the following companies:

Engine Company No. 1, No. 165 West Twenty-ninth street.
" " " 2, No. 530 West Forty-third street.
" " " 3, No. 417 West Seventeenth street.
" " " 19, No. 355 West Twenty-fifth street.
" " " 24, No. 78 Morton street.
" " " 26, No. 220 West Thirty-seventh street.
" " " 34, No. 440 West Thirty-third street.

Engine Company No. 43 (floating engine "William F. Havemeyer"), foot of Clinton street, East river.

Hook and Ladder Company No. 5, No. 96 Charles street.
" " " 12, No. 243 West Twentieth street.

The number of signal boxes having direct underground connection, when the work now in progress is finished, will be one hundred and forty-five, located upon and contiguous to the subway routes before referred to.

As soon as the necessary information defining the routes of projected subways, to enable the preparation of specifications, can be obtained from the Board of Electrical Control, the work will be continued to the extent of the appropriation made for the purpose.

Eighty-five miles of old wires have been taken down.

Seventy-nine miles of new wires have been strung in repairs and extensions.

Ninety-nine poles have been reset.

One hundred and seventy poles have been set.

Three hundred and ten poles have been taken down and condemned.

Twenty-seven new alarm-boxes have been added to the system.

The aggregate number of signal boxes is as follows:

Street boxes.....	717
In schools.....	131
In other institutions.....	26
	874
Special boxes in theatres, manufactories, etc.....	236

Aggregate number of signal-boxes in direct communication with the Department..... 1,110

Of the street boxes, one hundred and seventy-one are equipped with keyless doors, and one hundred and five are attached to combination lamp and signal posts.

Number of alarms and calls:

First alarms from—	
Street boxes.....	1,603
Combination circuits.....	1
Special building boxes.....	15
Police Headquarters.....	3
Metropolitan Telephone.....	1
Automatic Signal Telegraph Company.....	22
American District Telegraph Company.....	8
	1,653
Second alarms.....	94
Third alarms.....	36
Special calls for—	
Companies.....	170
Officers.....	1
Increased water pressure.....	70
Insurance Patrol.....	91
Ambulances.....	298
Charities and Correction's steamboat.....	1
Police steamboat.....	1
	632
Total alarms and calls.....	2,415

Messages transmitted.....	9,774
Messages received.....	9,926

Total messages..... 19,700

Notice of companies leaving quarters on verbal alarms..... 1,071

Number of Fire Alarm Keys in Use.

By the Uniformed Force.....	1,057
By others in the Department.....	9
By the Police Department.....	3,501
By the Fire Insurance Patrol.....	146
By the District Telegraph Companies.....	22
By householders.....	2,088
By citizens.....	3,235
By the Holmes Electric Protective Company.....	58
By the Public Schools.....	134
Total.....	10,250

SANITARY STATISTICS OF THE UNIFORMED FORCE.

Cases of Disability.

CAUSED BY	NUMBER.	DAYS LOST.
Injuries.....	168	5,520
Disease.....	486	8,674
Total.....	654	14,194

Examinations of candidates for appointment to the Uniformed Force—

Number found qualified.....	121
Number found disqualified.....	74
Total.....	195

Deaths in the Uniformed Force.

NAME.	GRADE.	COMPANY.	DATE OF APPOINTMENT.	DATE OF DEATH.	CAUSE.
John Hearn.....	Assistant Foreman.	Engine 52....	Sept. 11, 1865	Jan. 5	Pleurisy.
John Wright.....	Fireman, 1st grade.	" 3....	" 1, 1869	" 24	Bright's disease.
James Leavy.....	" 1st grade.	" 47....	Mar. 21, 1866	Mar. 5	Unknown.
Frank Kelly.....	" 1st grade.	" 37....	Sept. 11, 1882	" 19	Bright's disease.
Abraham Kilsheimer	" 1st grade.	H. & L. 14....	Oct. 1, 1872	April 24	Stricture of œsophagus.
Edward W. Owens..	" 2d grade.	Engine 26....	Dec. 17, 1885	June 15	Pneumonia.
Samuel McMahon...	" 1st grade.	" 56....	April 12, 1883	Aug. 13	(Internal injuries, run over by apparatus.
Francis Egan.....	" 1st grade.	" 28....	Oct. 21, 1870	" 24	Apoplexy.
James F. O'Connor..	" 3d grade.	" 6....	Mar. 11, 1888	Sept. 6	Concussion of brain.
Bernard McAllister.	Assistant Foreman.	" 11....	Dec. 3, 1877	" 14	Phthisis.

Deaths among those Retired from all Service.

NAME.	GRADE.	COMPANY.	DATE OF APPOINTMENT.	DATE OF RETIREMENT.	CAUSE.	DATE OF DEATH.	CAUSE.
William F. Wilson	{ Assistant Engineer }	Engine 5..	1865. Sept. 18	1879. April 4	Dilated heart..	Jan. 12	{ Bright's disease. }
George W. Quackenbush	Foreman...	" 10..	1865. Oct. 16	1881. July 13	{ Chronic rheumatism. }	Feb. 27	Heart disease
Benjamin C. Deane.....	Fireman ...	" 15..	1865. Oct. 2	1880. Nov. 18	Near sighted..	Aug. 9	{ Bright's disease. }
Henry Springsteen.....	" ...	" 19..	1869. Mar. 1	1885. Sept. 3	Bright's disease	Aug. 9	{ Cerebro-spinal meningitis. }

Retired from all Service at Fires.

NAME.	GRADE.	DATE OF APPOINTMENT.	RETIREMENT.	CAUSE.
Charles O. Shay.....	Chief of Department.....	Sept. 25, 1865	May 22	Vertigo.

Relieved from Service at Fires During the Year.

NAME.	GRADE.	COMPANY.	DATE OF APPOINTMENT.	DATE WHEN RELIEVED.	CAUSE.
Roger B. Hamblett.....	Foreman.....	Engine 52...	Sept 11, 1865	May 16	Heart disease.
Wright Case, Jr	Assistant Foreman...	H. & L. 14 ...	May 1, 1875	" 16	"
James Bergin	Fireman, 1st grade...	Engine 10...	Feb. 11, 1876	" 16	Paralysis.
William Farrell	" 1st grade...	" 47...	Sept. 9, 1874	" 16	Chronic rheumatism.
Thomas Judge	Foreman.....	" 15...	June 28, 1866	" 22	"

APPARATUS.

Purchased.

The following new apparatus was purchased during the year :

Three engines (see "Description of Steam Fire Engines" in another part of this report), four four-wheeled hose tenders, two hose wagons, one top buggy wagon, four battalion wagons and one sleigh with windlass and plow.

Old Apparatus Condemned.

Three two-wheeled and one four-wheeled chemical engines, two two-wheeled tenders and four two-wheeled jumpers, found unfit for service in the Department, were sold. One two-wheeled tender and one roller frame, first size hook and ladder truck, found unfit for any service, were broken up, parts of each being used in repairs, etc., and the remainder sold.

Repair Shop Work.

Manufactured—Three battalion wagons and one four-wheeled double-reel hose tender.

Rebuilt—Two hook and ladder trucks and three battalion wagons.

Extensive Repairs—Thirty-nine to steam fire engines, three to floating engines, eleven to hose tenders, sixteen to hook and ladder trucks.

Ordinary Repairs—Sixty-four to steam fire engines, one to hand engine, nine to floating engines, eighteen to hose tenders, ninety-three to hook and ladder trucks, five to water towers, and a large amount of miscellaneous repairing and painting.

Ten sets of sliding poles were put up in various company quarters.

Six sets of double harness, five sets of single harness and a large number of bridles and other parts of harness were made and furnished.

The following articles were furnished to various companies, etc. :

Seventeen electric-light wire cutters, eleven Prunty patent controlling nozzles, nineteen jumping nets, three sets of scaling ladders, twenty safety ladder belts and snaps, one thousand steel hose spanners and thirty-two thousand eight hundred feet of hose.

Inventory of Apparatus.

	IN SERVICE.	SPARE.	TOTAL.
Marine steam fire-engines (Engine Companies Nos. 43 and 51).....	2	..	2
{ First size.....	6	10	16
{ Second size.....	33	12	45
Steam fire-engines { Third size.....	7	4	11
{ Fourth size.....	15	..	15
{ Fifth size.....	2	..	2
Hose-tenders, four-wheeled.....	40	6	46
Hose-tenders, four-wheeled—double reel.....	1	..	1
Hose-tenders, two-wheeled.....	25	15	40
Hose-wagons, four-wheeled.....	2	..	2
Water towers.....	2	1	3
{ Roller-frame with extension ladder { 1st size... 12	4	16	
{ 2d size... 7	..	7	
{ Goose-neck without extension ladder..... 1	5	6	
Hook and ladder trucks. { Roller-frame, without ladders, first size..... ..	2	2	
{ Turn-table, first size..... 4	..	4	
{ Turn-table, second size..... 1	..	1	
Chemical fire-engines.....	..	6	6
Fuel wagons.....	17	..	17
Wrecking truck.....	..	1	1
Chemical fire-extinguishers.....	133	..	133
Hand-engines.....	..	3	3
Hose carriages.....	..	1	1
Hose jumpers.....	..	9	9
Supply wagon.....	1	..	1
Chief of Battalion wagons.....	12	11	23
Portable water tank.....	..	1	1

Inventory of Hose.

	SIZE.	LENGTHS.
Combination rubber hose.....	2 inch.	3
" "	2½ "	2,173
" " tapering from.....	3½ to 2½ "	39
" "	3¾ "	56
" "	4 "	1
" "	6 "	2
Cotton rubber lined hose.....	2½ "	1,892
" "	3¾ "	2
" "	3½ "	34
Total.....	.....	4,202

Classified Description of Steam Fire Engines.

SIZE.	STYLE OF—			SIZE IN INCHES OF—			Weight with Water.	When built or placed in service.	MANUFACTURER'S—		NEW BOILERS, PUMPS, ETC.		WHERE IN SERVICE.
	Frame.	Boiler.	Engine.	Steam Cylinder.	Stroke of Piston.	Pump.			Name.	Number.	When.	By Whom.	
1	Barrel tank.....	Tubular.....	Double.....	8	12	4¾	8,800	Sept., 1865	Amoskeag Manufacturing Co...	142	Sept., 1877	Rebuilt at Repair Shops.....	Spare.
1	"	Drop tube.....	"	8	12	4¾	8,800	Sept., 1865	"	143	Nov., 1883	New boiler, Clapp & Jones Manufacturing Co...	"
1	"	"	"	8	12	4¾	8,800	Sept., 1866	"	191	Apr., 1883	"	"
1	"	"	"	8	12	4¾	8,800	Sept., 1866	"	192	Nov., 1877	New pumps, Amoskeag Manufacturing Co....	"
1	"	"	"	8	12	4¾	8,800	Sept., 1866	"	192	Mar., 1882	New tubes, Repair Shops	"
1	"	"	"	8	12	4¾	8,800	Oct., 1866	"	193	June, 1884	New boiler, Clapp & Jones Manufacturing Co. }	"
1	"	Tubular.....	"	8	12	4¾	8,800	Nov., 1866	"	193	May, 1883	"	"
1	"	"	"	8	12	4¾	8,800	Nov., 1866	"	195	.....	" .....	"
1	* Straight frame....	Drop tube.....	"	8½	8	4¾	9,600	Oct., 1872	"	284	Feb., 1880	{ Altered for horses, and new boiler, Clapp & Jones Manufacturing Co	"
1	* Crane peck.....	"	"	7½	8	4½	8,000	Sept., 1874	"	494	Feb., 1880	New tubes, Repair Shops	"
1	"	"	"	7½	8	4½	7,320	Mar., 1879	"	527	May, 1883	New boiler, Clapp & Jones Manufacturing Co. }	"
1	"	"	"	7½	8	4½	7,320	Mar., 1879	"	527	Apr., 1884	{ Altered for horses, Clapp & Jones Manufacturing Co.....	"
1	"	Coil	"	7¾	8	4½	7,575	Sept., 1880	Ahrens Manufacturing Co.....	252	Feb., 1881	New boiler, Clapp & Jones Manufacturing Co...	Engine 20.
1	"	Drop tube.....	"	8	7	4¾	7,450	Oct., 1880	Clapp & Jones Manufacturing Co.	351	Nov., 1880	New coil in boiler, Ahrens Manufacturing Co....	Spare.
1	"	"	"	8	7	5	7,450	Oct., 1880	"	352	Oct., 1880	{ New tubes in boiler, Clapp & Jones Manufacturing Co	Engine 33.
1	"	"	"	8½	7	5	7,890	June, 1882	"	380	Jan., 1883	New pump, Clapp & Jones Manufacturing Co....	" 7.
1	"	"	"	8½	7	5	8,120	July, 1882	"	381	.....	" .....	" 14.
1	"	"	"	8½	7	5	7,890	Aug., 1882	"	382	.....	" .....	" 1.
1	"	"	"	8½	7	5	7,890	Sept., 1882	"	383	.....	" .....	" 19.
1	"	"	"	8½	7	5	7,890	Sept., 1882	"	385	.....	" .....	" 55.
2	U tank.....	Tubular.....	Single.....	8	12	4¾	6,750	Dec., 1860	Amoskeag Manufacturing Co...	19	.....	" .....	Ward's Island.
2	"	"	"	8	12	4¾	6,750	Oct., 1865	"	147	July, 1879	New boiler, Amoskeag Manufacturing Co.....	Spare.
2	"	"	"	8	12	4¾	6,750	Nov., 1865	"	148	Apr., 1879	"	"
2	"	"	"	8	12	4¾	6,750	Dec., 1865	"	157	July, 1878	"	"
2	"	Nest tube.....	"	8	12	4¾	6,520	Dec., 1865	"	158	July, 1879	"	"
2	"	"	"	8	12	4¾	6,520	Dec., 1865	"	158	Oct., 1888	{ La France Fire Engine Co.....	Engine 36.

* Formerly self-propellers.

Size.	STYLE OF—			SIZE IN INCHES OF—			Weight with Water.	When built or placed in service.	MANUFACTURER'S—		NEW BOILERS, PUMPS, ETC.		WHERE IN SERVICE.
	Frame.	Boiler.	Engine.	Steam Cylinder.	Stroke of Piston.	Pump.			Name.	Number.	When.	By Whom.	
2	U tank.....	Tubular.....	Single.....	8	12	4 3/4	6,750	Jan., 1866	Amoskeag Manufacturing Co...	159	Nov., 1879	New boiler, Amoskeag Manufacturing Co.....	Engine 5.
2	"	Nest tube.....	"	8	12	4 3/4	6,750	Jan., 1866	"	160	Sept., 1879	" La France Fire Engine Co.....	" 12.
2	"	Drop tube.....	"	8	12	4 3/4	6,750	Feb., 1866	"	161	Nov., 1874	Rebuilt and new boiler, La France Fire Engine Co.....	Spare.
2	"	"	"	8	12	4 3/4	6,750	Feb., 1866	"	162	May, 1884	" Clapp & Jones Manufacturing Co.	"
2	"	"	"	8	12	4 3/4	6,750	Mar., 1866	"	163	July, 1875	" Repair Shops.....	"
2	"	"	"	8	12	4 3/4	6,750	Mar., 1866	"	163	July, 1885	" Clapp & Jones Manufacturing Co.	"
2	"	Tubular.....	"	8	12	4 3/4	6,750	Apr., 1866	"	164	Sept., 1881	"	"
2	"	"	"	8	12	4 3/4	6,750	Apr., 1866	"	164	Dec., 1874	New boiler, Repair Shops.....	Engine 13.
2	"	Sectional coil tube.....	"	8	12	4 3/4	6,750	Apr., 1866	"	165	1889	{ New boiler, and rebuilt by La France Fire Engine Co.....	" 16.
2	"	"	"	8	12	4 3/4	6,750	Apr., 1866	"	165	Nov., 1879	New boiler, Manchester Locomotive Works...	"
2	"	Tubular.....	"	8	12	4 3/4	6,750	Aug., 1866	"	166	Aug., 1886	" Clapp & Jones Manufacturing Co.	Spare.
2	Straight frame.....	Sectional coil tube.....	Double.....	6 7/8	8	4 1/2	6,700	Mar., 1867	"	226	Sept., 1879	{ New coil for boiler, Clapp & Jones Manufacturing Co.....	Engine 28.
2	"	Drop tube.....	"	6 7/8	8	4 1/2	6,700	Mar., 1867	"	227	Oct., 1875	" Repair Shops.....	" 31.
2	"	"	"	6 7/8	8	4 1/2	6,700	Mar., 1867	"	228	Apr., 1882	" Clapp & Jones Manufacturing Co.	" 21.
2	"	"	"	6 7/8	8	4 1/2	6,700	Mar., 1867	"	228	July, 1880	"	"
2	"	"	"	6 7/8	8	4 1/2	6,700	Apr., 1867	"	229	Feb., 1878	New tubes in boiler, Repair Shops.....	" 25.
2	"	"	"	6 7/8	8	4 1/2	6,700	Apr., 1867	"	229	Sept., 1881	New boiler, Clapp & Jones Manufacturing Co.	"
2	"	"	"	6 7/8	8	4 1/2	6,700	May, 1867	"	230	Aug., 1886	New pumps, "	Spare.
2	"	"	"	6 7/8	8	4 1/2	6,700	Aug., 1868	"	295	Oct., 1881	New boiler, "	Engine 27.
2	"	Nest tube.....	"	6 7/8	8	4 1/2	6,700	Sept., 1868	"	296	Mar., 1881	"	" 39.
2	"	Tubular.....	"	6 7/8	8	4 1/2	6,700	Sept., 1868	"	301	Aug., 1879	Amoskeag Manufacturing Co.....	Spare.
2	"	Nest tube.....	"	6 7/8	8	4 1/2	6,700	Nov., 1868	"	302	Mar., 1886	" La France Fire Engine Co.....	Engine 34.
2	Crane neck.....	"	"	7 1/4	8	4 1/2	8,250	July, 1886	La France Fire Engine Co.....	108	Nov., 1876	" Repair Shops.....	" 9.
2	"	Sectional coil tube.....	"	7 1/4	7	4 1/2	7,240	May, 1887	Clapp & Jones Manufacturing Co.	491	Apr., 1879	" Amoskeag Manufacturing Co.....	" 24.
2	"	Drop tube.....	"	6 7/8	8	4 1/2	6,800	Feb., 1871	Amoskeag Manufacturing Co...	359	Mar., 1886	" La France Fire Engine Co.....	" 23.
2	"	"	"	6 7/8	8	4 1/2	6,800	Feb., 1871	"	360	May, 1883	New boiler, Clapp & Jones Manufacturing Co...	" 15.
2	"	"	"	6 7/8	8	4 1/2	6,800	Mar., 1871	"	361	July, 1884	"	"
2	"	"	"	6 7/8	8	4 1/2	6,800	Mar., 1871	"	362	Sept., 1883	"	Spare.
2	"	"	"	6 7/8	8	4 1/2	6,800	Mar., 1871	"	363	April, 1883	"	Engine 30.
2	"	"	"	6 7/8	8	4 1/2	7,385	Mar., 1871	"	363	April, 1883	"	" 11.
2	"	Tubular.....	"	6 7/8	8	4 1/2	7,250	June, 1873	"	437	Aug., 1880	{ New pumps, new crown sheet, new tubes and sheet in furnace, Manchester Locomotive Works	" 8.
2	"	Drop tube.....	"	6 7/8	8	4 1/2	6,950	June, 1873	"	438	1889	Rebuilt and new boiler by La France Fire Engine Co.....	"
2	"	"	"	6 7/8	8	4 1/2	6,950	June, 1873	"	438	June, 1882	New boiler, Clapp & Jones Manufacturing Co...	" 54.
2	"	"	"	6 7/8	8	4 1/2	6,950	July, 1873	"	439	July, 1883	"	" 12.
2	"	"	"	6 7/8	8	4 1/2	6,950	Sept., 1873	"	440	June, 1884	"	" 29.
2	"	"	"	6 7/8	8	4 1/2	6,950	Sept., 1873	"	441	Sept., 1880	"	" 3.
2	"	"	"	6 7/8	8	4 1/2	6,950	Sept., 1873	"	455	May, 1882	New pump, Repair Shops.....	" 16.
2	"	"	"	6 7/8	8	4 1/2	6,950	Sept., 1873	"	455	Feb., 1884	New boiler, Clapp & Jones Manufacturing Co.	"
2	"	Tubular.....	"	6 3/4	8	4 1/2	6,800	Nov., 1868	Gould	7	Dec., 1880	" Repair Shops.....	Ward's Island.
2	"	Coil	"	6 3/4	8	4 1/2	6,210	July, 1883	Ahrens Manufacturing Co.....	358	Mar., 1888	New coil in boiler, Ahrens Manufacturing Co....	Engine 13.
2	"	"	"	6 3/4	8	4 1/2	6,210	July, 1883	"	360	.....	" .....	" 20.
2	"	Drop tube.....	"	7 1/2	7	4 5/8	6,550	July, 1883	Clapp & Jones Manufacturing Co.	413	.....	" .....	" 32.
2	"	"	"	7 1/2	7	4 5/8	6,485	Aug., 1883	"	415	.....	" .....	" 27.
2	"	"	Rotary.....	9	..	..	6,400	July, 1884	Silsby Manufacturing Co.....	780	Feb., 1888	New pumps, Silsby Manufacturing Co.....	" 17.
2	"	"	Double.....	7 1/2	7	4 5/8	6,885	July, 1885	Clapp & Jones Manufacturing Co.	463	.....	" .....	" 31.
2	"	Sectional coil tube.....	"	7 1/4	7	4 1/2	6,740	Aug., 1886	"	473	.....	" .....	" 4.
2	"	Nest tube.....	"	7 3/4	8	4 1/2	8,230	Aug., 1888	La France Fire Engine Co.....	146	.....	" .....	" 18.
2	"	"	"	7 3/4	8	4 1/2	8,675	Aug., 1888	"	147	.....	" .....	" 5.
3	Harp tank.....	Drop tube.....	Single.....	7 3/4	9 1/2	4 1/2	5,550	May, 1861	Amoskeag Manufacturing Co...	36	Oct., 1879	New boiler, Clapp & Jones Manufacturing Co...	Spare.
3	"	"	"	7 3/4	9	4 3/8	5,700	Dec., 1876	"	516	April, 1884	"	"
3	"	Tubular.....	"	7 3/4	9	4 3/8	5,700	Feb., 1877	"	517	.....	" .....	Engine 37.
3	"	Nest tube.....	"	7 3/4	9	4 3/8	5,700	Feb., 1877	"	519	July, 1888	New boiler, La France Fire Engine Co.....	" 38.
3	"	"	"	7 3/4	9	4 3/8	5,700	Feb., 1877	"	520	June, 1882	New tubes in boiler, Clapp & Jones Mfg. Co....	" 37.
3	"	"	"	7 3/4	9	4 3/8	5,700	Feb., 1877	"	520	1889	Rebuilt and new boiler by La France Fire Engine Co.....	"
3	Straight frame.....	Coil.....	"	8	7	5	4,665	July, 1883	Ahrens Manufacturing Co.....	354	.....	" .....	" 45.
3	"	"	"	8	7	5	4,665	July, 1883	"	356	.....	" .....	" 42.
3	Horizontal.....	Tubular.....	"	6	10	4 1/2	....	Aug., 1865	Clapp .....	...	Jan., 1867	New boiler, Amoskeag Manufacturing Co	Randall's Island.
3	Crane neck.....	Nest tube.....	Double.....	8 1/4	6	4 1/2	7,490	1889	La France Fire Engine Co.....	165	.....	" .....	Engine 56.
3	"	"	"	8 1/4	6	4 1/2	7,420	1889	"	164	.....	" .....	" 6.
3	"	"	"	8 1/4	6	4 1/2	7,450	1889	"	163	.....	" .....	" 26.
4	"	Drop tube.....	"	9 1/4	6	5 1/2	5,750	July, 1881	Clapp & Jones Manufacturing Co.	359	.....	" .....	" 10.
4	"	"	"	9 1/4	6	5 1/2	5,750	July, 1881	"	362	.....	" .....	" 44.
4	"	"	"	9 1/4	6	5 1/2	5,750	July, 1881	"	365	.....	" .....	" 53.
4	"	"	"	9 1/4	6	5 1/2	5,300	Oct., 1881	"	368	.....	" .....	" 33.
4	"	"	"	9 1/4	6	5 1/2	5,300	Oct., 1881	"	370	.....	" .....	" 40.
4	"	"	"	9 1/4	6	5 1/2	5,300	Nov., 1881	"	371	.....	" .....	" 49.
4	"	"	"	9 1/4	6	5 1/2	5,300	Dec., 1881	"	375	.....	" .....	" 41.
4	"	"	"	9 1/4	6	5 1/2	5,950	April, 1884	"	430	.....	" .....	" 18.
4	"	"	"	9 1/4	6	5 1/2	5,950	April, 1884	"	432	.....	" .....	" 22.
4	"	"	"	9 1/4	6	5 1/2	5,950	May, 1884	"	433	.....	" .....	" 47.
4	"	"	"	9 1/4	6	5 1/2	5,950	May, 1884	"	434	.....	" .....	" 2.
4	"	"	"	9 1/4	6	5 1/2	5,950	May, 1884	"	436	.....	" .....	" 26.
4	"	"	"	9 1/4	6	5 1/2	5,950	June, 1884	"	438	.....	" .....	" 35.
4	Straight frame.....	"	"	9 1/4	6	5 1/2	4,750	July, 1883	"	409	.....	" .....	" 48.
4	"	"	"	9 1/4	6	5 1/2	4,745	Aug., 1883	"	417	.....	" .....	" 46.
5	Crane neck.....	"	"	7 1/2	6	4 5/8	4,680	Nov., 1882	"	397	.....	" .....	" 50.
5	"	"	"	7 1/2	6	4 5/8	5,030	Nov., 1884	"	452	.....	" .....	" 52.
1	Marine engine.....	Tubular.....	Double.....	{ 11	12	5	....	May, 1875	{ Amoskeag Manufacturing Co., {	513	May, 1882	New legs in boiler	" 43.
				{ 11	12	5	....		pumps	514	Dec., 1886	Repairs to boiler, hull, etc.....	
				{ 16	9	7 1/2	....	April, 1883	{ Clapp & Jones Manufacturing {	405	June, 1886	New legs in boilers, new fresh water tanks and connections.....	" 51.
				{ 16	9	7 1/2	....		Co., pumps	406			

Classified Description of Hook and Ladder Trucks.

SIZE.	STYLE.	LONGEST LADDER.	MANUFACTURER.	WHEN BUILT OR PLACED IN SERVICE.	DEPARTMENT REGISTERED No.	REBUILT, ETC.	WHERE USED.
1st	Turn-table	92 feet extension	Fire Extinguisher Manufacturing Co.	Sept., 1888	33		Hook and Ladder Co. 4.
1st	"	85 "	La France Fire Engine Co.	1886	30		" 3.
1st	"	85 "	"	June, 1886	31		" 12.
1st	"	85 "	"	July, 1887	32		" 16.
1st	"	75 "	"	" 1888	34		" 14.
1st	Roller frame	73 "	Fire Extinguisher Manufacturing Co.	May, 1883	24	Repair Shops, 1887	" 6.
1st	"	73 "	Fire Department Repair Shops	" 1872	28	Gleason & Bailey Manufacturing Co.	" 8.
1st	"	73 "	"	1879	18		" 10.
1st	"	73 "	Fire Extinguisher Manufacturing Co.	July, 1883	26		" 15.
1st	"	72 "	Fire Department Repair Shops	1872	13		Spare, 4th Battalion.
1st	"	72 "	"	1873	15		" 10th "
1st	"	70 "	"	Dec., 1869	6		Hook and Ladder Co. 1.
1st	"	70 "	"	Nov., 1871	10	Repair Shops, 1889	" 2.
1st	"	70 "	"	May, 1872	11		" 7.
1st	"	70 "	Fire Extinguisher Manufacturing Co.	June, 1883	25		" 9.
1st	"	70 "	Allerton Manufacturing Co.	1870	8		" 9.
1st	"	70 "	"	1870	9		Spare 4th Battalion.
1st	"	70 "	Fire Department Repair Shops		36	Gleason & Bailey Manufacturing Co.	Hook and Ladder Co. 13.
1st	"	65 "	"	Jan., 1869	7		" 5.
1st	"	65 "	"	1873	14		" 5.
1st	"	65 "	"	1881	19		" 11.
1st	"	65 "	"	1878	17		" 20.
1st	"	65 "	"	1872	12	Repair Shops, 1886	" 18.
2d	"	50 "	"	Sept., 1877	16		" 17.
2d	"	50 "	Fire Extinguisher Manufacturing Co.	1883	27		Engine Company 38.
2d	"	50 "	Fire Department Repair Shops	1882	20		" 47.
2d	"	50 "	"	Sept., 1882	22		" 50.
2d	"	50 "	Fire Extinguisher Manufacturing Co.	June, 1885	29		" 52.
2d	"	50 "	"	1882	23		Hook and Ladder Co. 19.
2d	"	50 feet	Fire Department Repair Shops	April, 1882	21		Engine Company 48.
3d	Goose neck	40 "		Before 1865	4		" 49.
3d	"	40 "		" 1865	3		12th Battalion.
3d	"	40 "		" 1865	2		Spare, Ward's Island.
3d	"	40 "		" 1865	35		" H. & L. 9.
3d	"	30 "		" 1865	5		" 19.
3d	"	30 "		" 1865	1		" Randall's Island.

Classified Description of Hose Tenders, Hose Wagons, Boat Tenders, Water Towers, Water-Tank and Wrecking Truck.

STYLE.	MANUFACTURER.	WHEN BUILT OR PLACED IN SERVICE.	REGISTERED No.	WHERE USED.	STYLE.	MANUFACTURER.	WHEN BUILT OR PLACED IN SERVICE.	REGISTERED No.	WHERE USED.
Four-wheel	Dep't Repair Shops	....	33	Spare.	Four-wheel	Gleason & Bailey Mfg. Co.	1886	74	Eng. Co. 40.
"	"	1865	1 a	Eng. Co. 38.	"	"	1887	76	" 11.
"	"	1875	35	Spare.	"	"	1887	77	" 14.
"	"	1877	37	"	"	William Cole & Co.	1887	75	" 46.
"	"	1877	38	"	"	Gleason & Bailey Mfg. Co.	1888	79	" 5.
"	"	1881	42	"	"	"	1888	80	" 8.
"	Fire Extinguisher Mfg. Co.	1882	43	Eng. Co. 1.	"	"	1888	81	" 9.
"	"	1882	45	" 21.	"	"	1888	82	" 15.
"	"	1882	46	" 23.	"	"	1888	78	" 28.
"	"	1882	48	" 44.	"	"	1889	84	" 31.
"	"	1882	34	Spare.	"	"	1889	85	" 54.
"	P. J. Nevins	1882	49	Eng. Co. 48.	"	"	1889	86	" 35.
"	J. U. Bauchelle	1883	51	" 24.	"	"	1889	87	" 56.
"	"	1883	52	" 26.	"	"	1889	83	H. & L. Co. 19.
"	"	1883	54	" 36.	Two-wheel	Dept. Repair Shops	....	19	Eng. Co. 2.
"	"	1883	55	" 37.	"	"	....	20	" 4.
"	"	1883	56	" 42.	"	"	....	21	" 6.
"	"	1883	57	" 45.	"	"	....	12	" 13.
"	"	1883	58	" 47.	"	"	....	24	" 16.
"	"	1883	59	" 50.	"	"	....	25	" 27.
"	Fire Extinguisher Mfg. Co.	1884	60	" 3.	"	"	....	27	" 55.
"	"	1884	61	" 10.	"	"	....	28	" 55.
"	"	1884	62	" 18.	"	"	....	16	Spare.
"	"	1884	63	" 27.	"	"	....	13	"
"	"	1884	64	" 30.	"	"	....	22	Eng. Co. 12.
"	"	1884	65	" 53.	"	"	....	23	" 12.
"	"	1885	66	" 52.	"	"	....	17	" 49.
"	Gleason & Bailey Mfg. Co.	1886	68	" 16.	"	"	....	18	" 49.
"	"	1886	69	" 19.	"	"	....	11	Spare.
"	"	1886	70	" 22.	"	Amoskeag Mfg. Co.	....	6	Eng. Co. 13.
"	"	1886	72	" 34.	"	"	....	7	" 18.
"	"	1886	73	" 39.	"	"	....	8	" 49.

STYLE.	MANUFACTURER.	WHEN BUILT OR PLACED IN SERVICE.	REGISTERED No.	WHERE USED.
Two-wheel	Amoskeag Mfg. Co.....	....	9	Spare.
" .....	" .....	....	10	"
"	Dept. Repair Shops.....	1866	1	Eng. Co. 25.
"	Amoskeag Mfg. Co.....	1866	15	" 9.
"	Dept. Repair Shops.....	1867	2	" 5.
"	"	1868	3	" 17.
"	Amoskeag Mfg. Co.....	1868	4	" 31.
"	Allerton Mfg. Co.....	1869	5	" 33.
"	Dept. Repair Shops.....	1871	29	" 12.
"	"	1871	30	Spare.
"	"	1872	31	Eng. Co. 7.
"	"	1872	32	Spare.
"	"	1876	36	Eng. Co. 26.
"	"	1879	39	" 35.
"	"	1880	41	Spare.
"	"	1880	40	Eng. Co. 29.
"	"	1882	44	" 20.
"	"	1882	47	" 32.
"	"	1883	50	" 13.
"	"	1883	53	" 33.
"	"	1885	67	Spare.
"	"	1886	71	Eng. Co. 41.
Four-wheel hose wagons.....	E. B. Preston & Co.....	1889	1	" 38.
"	"	1889	2	" 41.
Four-wheel double-reel boat tender	Dept. Repair Shops.....	1889	1	H. & L. Co. 15.
Four-wheel water tower.....	A. Greenleaf.....	1879	1	Spare.
"	"	1883	2	H. & L. Co. 3.
"	Fire Extinguisher Mfg. Co.....	1885	3	Eng. Co. 7.
Four-wheel water-tank	Dept. Repair Shops	1883	1	" 20.
Four-wheel wrecking truck.....	"	1879	1	H. & L. Co. 11.

HORSES.

December 31, 1888, number of horses on hand.....	352
Purchased since.....	34
	386
Died.....	7
Sold.....	16
	23
December 31, 1889, number on hand.....	363

On Probation.

December 31, 1888.....	11
Received.....	109
	120
Accepted.....	34
Rejected.....	81
	115
Remaining on probation December 31, 1889.....	5

DEPARTMENT BUILDINGS AND SITES.

New Buildings.

The new houses at No. 120 West Eighty-third street, for Engine Company No. 56, and at No. 120 East One Hundred and Twenty-fifth street, for Hook and Ladder Company No. 14, were completed and occupied.
 Contracts were made for the erection of the following new buildings:
 Hospital and Training Stables at Nos. 133 and 135 West Ninety-ninth street.
 Apparatus House at No. 432 West Thirty-sixth street for a new hook and ladder company.
 Apparatus House on the south side of West One Hundred and Thirteenth street, sixty feet west of Tenth avenue, for a new engine company.

Alterations and Repairs to Buildings.

Extensive alterations and repairs were made to the following buildings:
 Engine Companies Nos. 8, 24 and 50, Quarters of the Chief of Department, Repair Shops, Stables and Hook and Ladder Companies Nos. 12 and 20.
 Ordinary repairs, involving various kinds of mechanical work, were also made to the buildings of the Department, aggregating seventy different jobs of work.

New Sites.

In a preceding part of this report, under the head of "Life Saving Corps and School of Instruction," reference is made to the necessity for a new site for a drill ground. As there is also necessity for a new repair shop, which could likewise be advantageously located on the river front, it was determined to make an effort to procure a site for the two purposes combined. There is also imperative need of a number of additional companies north of One Hundred and Tenth street, where no increase in the fire-extinguishing force has been made since the organization of the Department, to keep pace with the large growth in population and buildings, and the Board contemplates early action in that direction.

Buildings and Sites Occupied by or under Control of the Department.

Headquarters—Office of Commissioners, Bureau—Chief of Department, Inspector of Combustibles, Fire Marshal and Superintendent of Buildings, and offices of Attorney, Fire Alarm Telegraph and Medical Officers, and School of Instruction, Nos. 157 and 159 East Sixty-seventh street, with drill yard in rear, extending to Sixty-eighth street.
 Night-quarters, Chief of Department, No. 15 Great Jones street.
 Headquarters, Deputy Chief of Department (First District), No. 155 Mercer street.

Headquarters, Deputy Chief of Department (Second District), No. 165 West Twenty-ninth street.
 Repair Shops, Nos. 130 and 132 West Third street.
 Hospital Stables, Nos. 133 and 135 West Ninety-ninth street (located at No. 199 Chrystie street during rebuilding of stables).
 Training Stables, No. 58 Lawrence street.
 Bell-tower and Lookout, Mount Morris square.
 Lookout, southwest corner of Tenth street and Sixth avenue, Jefferson Market Court-house.

Engine Company No. 1, No. 165 West Twenty-ninth street.
 " 2, No. 530 West Forty-third street. (Fuel Depot No. 13.)
 " 3, No. 417 West Seventeenth street. (Fuel Depot No. 10.)
 " 4, No. 39 Liberty street.
 " 5, No. 340 East Fourteenth street.
 " 6, No. 100 Cedar street.
 " 7, No. 22 Chambers street.†
 " 8, No. 165 East Fifty-first street.
 " 9, No. 55 East Broadway.
 " 10, No. 8 Stone street.
 " 11, No. 437 East Houston street.
 " 12, No. 261 William street.
 " 13, No. 99 Wooster street.
 " 14, No. 14 East Eighteenth street.
 " 15, No. 269 Henry street.
 " 16, No. 223 East Twenty-fifth street.
 " 17, No. 91 Ludlow street.
 " 18, No. 132 West Tenth street. (Fuel Depot No. 8.)
 " 19, No. 355 West Twenty-fifth street. (Fuel Depot No. 11.)
 " 20, No. 47 Marion street.
 " 21, No. 216 East Fortieth street.
 " 22, No. 159 East Eighty-fifth street. (Fuel Depot No. 15.)
 " 23, No. 235 West Fifty-eighth street.
 " 24, No. 78 Morton street. (Fuel Depot No. 7.)
 " 25, No. 342 Fifth street.
 " 26, No. 220 West Thirty-seventh street.
 " 27, No. 173 Franklin street.
 " 28, No. 604 East Eleventh street.
 " 29, No. 193 Fulton street.
 " 30, No. 253 Spring street.* (Fuel Depot No. 6.)
 " 31, No. 116 Leonard street.
 " 32, No. 108 John street.*
 " 33, No. 15 Great Jones street.
 " 34, No. 440 West Thirty-third street.
 " 35, No. 223 East One Hundred and Nineteenth street (temporarily at No. 209 East One Hundred and Twenty-second street.)
 " 36, No. 2333 Park avenue.
 " 37, No. 83 Lawrence street.
 " 38, Tenth avenue, between One Hundred and Fifty-fourth and One Hundred and Fifty-fifth streets.
 " 39, No. 157 East Sixty-seventh street.
 " 40, No. 153 West Sixty-eighth street.
 " 41, No. 501 North Third avenue.||
 " 42, Fulton avenue, between One Hundred and Sixty-seventh and One Hundred and Sixty-eighth streets.
 " 43, (Floating engine "William F. Havemeyer"), foot of Clinton street, East river.
 " 44, No. 221 East Seventy-fifth street.
 " 45, North side Tremont avenue, between Southern Boulevard and Vyse street.
 " 46, Morris street, between Madison and Washington avenues.*
 " 47, Tenth avenue, between Ninety-seventh and Ninety-eighth streets.
 " 48, Webster (formerly Thomas) avenue, near Kingsbridge road.
 " 49, Blackwell's Island.
 " 50, One Hundred and Sixty-sixth street, between Washington and Third avenues. (Fuel Depot No. 19.)
 " 51, (Floating engine "Zophar Mills"), foot of West Thirteenth street.
 " 52, Riverdale avenue, near junction of Westchester avenue.
 " 53, No. 175 East One Hundred and Fourth street. (Fuel Depot No. 16.)
 " 54, No. 304 West Forty-seventh street.
 " 55, No. 173 Elm street.
 " 56, No. 120 West Eighty-third street.

Hook and Ladder Company No. 1, No. 26 Chambers street.†
 " 2, No. 126 East Fiftieth street. (Fuel Depot No. 14.)
 " 3, No. 108 East Thirteenth street.
 " 4, No. 788 Eighth avenue.
 " 5, No. 96 Charles street.
 " 6, No. 77 Canal street.
 " 7, No. 217 East Twenty-eighth street.
 " 8, No. 7 North Moore street.
 " 9, No. 209 Elizabeth street.
 " 10, No. 191 Fulton street.
 " 11, No. 742 Fifth street.
 " 12, No. 243 West Twentieth street.
 " 13, No. 159 East Eighty-seventh street.
 " 14, No. 120 East One Hundred and Twenty-fifth street.
 " 15, Old Slip, between Water and Front streets.
 " 16, No. 159 East Sixty-seventh street.
 " 17, One Hundred and Forty-third street, near Third avenue. (Fuel Depot No. 18.)
 " 18, No. 84 Attorney street.
 " 19, Ogden avenue, between Birch and Union streets.*

Fuel Depot No. 1, No. 28 Beaver street.†
 " 2, No. 5 Duane street.
 " 3, No. 304 Washington street.
 " 4, No. 180 Clinton street.
 " 5, No. 199 Chrystie street.
 " 6, (see Engine Company No. 30).
 " 7, (see Engine Company No. 24).
 " 8, (see Engine Company No. 18).
 " 9, No. 106 East Thirteenth street.
 " 10, (see Engine Company No. 3).
 " 11, (see Engine Company No. 19).
 " 12, No. 160 East Thirty-third street.||
 " 13, (see Engine Company No. 2).
 " 14, (see Hook and Ladder Company No. 2).
 " 15, (see Engine Company No. 22).
 " 16, (see Engine Company No. 53).
 " 17, No. 209 East One Hundred and Twenty-second street.
 " 18, (see Hook and Ladder Company No. 17).
 " 19, (see Engine Company No. 50).

Store-house, No. 20 Eldridge street.
 " No. 180 Clinton street. (Fuel Depot No. 4.)
 " No. 199 Chrystie street (temporarily occupied by Hospital Stables, and Fuel Depot No. 5).
 " Division street, near Boston road.
 " No. 160 East Thirty-third street. (Fuel Depot No. 12 and Supply Room.)

Unfinished buildings for an engine company on the south side of West One Hundred and Thirteenth street, sixty feet west of Tenth avenue, and for a hook and ladder company at No. 432 West Thirty-sixth street.

The locations marked thus (*) are leased by the Department; all others are city property. The locations marked thus (†) are only in part occupied by the Department. At the locations marked thus (||) lots in rear or adjacent are leased by the Department.

RELIEF FOR THE SUFFERERS IN THE CONEMAUGH VALLEY, PENNSYLVANIA.

At the instance of his Honor the Mayor, the Board authorized the circulation of subscription lists for this purpose, and the total amount received therefor was one thousand six hundred and seventy-two dollars and seventy-five cents, which was sent to the Mayor's office on June 2.

RECEIPTS AND DISBURSEMENTS OF THE RELIEF FUND—1871-1889.

Receipts.

FROM—	1871. 7 MONTHS.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.
Metropolitan Fire Department Relief Fund.....	\$7,340 07	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fines.....	646 51	\$621 64	\$843 31	\$734 79	\$972 51	\$567 15	\$489 46	\$568 98	\$568 03	\$1,068 89
Donations.....	.....	100 00	1,060 00	374 00	.....	100 00	.....	100 00	.....	.....
Penalties.....	.....	170 63	902 34	705 00	2,389 63	1,600 00	1,925 00	1,250 00	350 00	400 00
Oil licenses.....	26,230 00	27,528 50	30,399 50	31,827 50	29,454 50	27,285 00	30,103 00	29,750 00	30,300 00	29,760 00
Fireworks permits.....	495 00	509 00	537 00	522 75	519 25	645 50	472 25	332 75	355 00	363 50
Interest.....	275 55	1,999 86	4,258 91	9,298 22	10,410 44	11,795 22	17,210 91	15,493 90	18,680 49	22,140 20
Foreign insurance tax.....	.....	9,942 30	12,072 04	16,136 25	15,281 24	12,878 98	12,112 10	16,630 02	17,582 80	.....
Powder licenses.....	.....	211 00	571 50	241 50	306 50	385 50	384 50	192 00	180 00	178 00
Special permits.....	.....	.....	.....	.....	.....	.....	.....	258 00	274 00	328 00
Chimney fires.....	.....	245 00	440 00	375 00	355 00	245 00	260 00	240 00	180 00	290 00
Fires in street permits.....	.....	.....	.....	.....	.....	50	41 75	85 00	64 00	56 50
Sales—Seized combustibles.....	.....	.....	24 25	.....	.....	.....	.....	.....	6 30	70 00
Sales—Sample oils.....	.....	.....	.....	27 06	.....	.....	.....	10 00	.....	1 35
Excise licenses.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Absences without leave.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Special leaves.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sales—Condemned horses, etc.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New York State Dairy Commission.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.....	\$34,987 13	\$41,327 93	\$51,108 85	\$60,242 07	\$59,689 07	\$55,502 85	\$62,998 97	\$64,910 65	\$68,540 62	\$54,596 44

FROM—	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	TOTALS.
Metropolitan Fire Department Relief Fund.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$7,340 07
Fines.....	\$868 80	\$1,304 55	\$1,966 33	\$1,703 23	\$2,005 84	\$1,839 84	\$2,249 50	\$1,765 80	\$2,109 14	22,894 30
Donations.....	.....	100 00	.....	100 00	258 00	580 00	2,115 00	551 00	250 00	5,688 00
Penalties.....	525 00	325 00	460 00	400 00	550 00	200 00	177 50	200 00	200 00	12,730 10
Oil licenses.....	31,180 00	31,270 00	32,720 00	35,270 00	36,550 00	37,100 00	39,500 00	39,510 00	41,720 00	617,458 00
Fireworks permits.....	409 25	440 75	462 75	513 50	583 75	620 50	627 75	880 00	1,030 00	10,320 25
Interest.....	22,885 58	23,468 10	20,347 85	24,764 43	20,567 30	20,712 94	21,711 99	23,695 21	24,290 64	314,007 74
Foreign insurance tax.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	112,635 73
Powder licenses.....	186 00	188 00	198 00	190 00	168 00	172 00	164 00	156 00	198 00	4,270 50
Special permits.....	370 00	366 00	722 00	872 00	806 00	956 00	1,068 00	1,208 00	1,498 00	8,726 00
Chimney fires.....	305 00	320 00	360 00	325 00	441 50	355 00	300 00	305 00	400 00	5,741 50
Fires in street permits.....	65 00	63 00	59 00	60 50	69 50	68 00	65 50	43 50	31 50	773 25
Sales—Seized combustibles.....	63 25	35 37	.....	6 75	.....	.....	.....	.....	25 00	170 92
Sales—Sample oils.....	50 00	.....	.....	.....	.....	.....	.....	.....	.....	88 41
Excise licenses.....	.....	.....	.....	.....	18,397 00	62,406 50	94,684 00	78,094 00	79,952 00	333,533 50
Absences without leave.....	.....	.....	.....	.....	176 00	316 14	462 42	570 74	327 86	1,853 16
Special leaves.....	.....	.....	.....	.....	2,081 96	3,621 65	4,098 38	3,828 63	3,985 79	17,616 41
Sales—Condemned horses, etc.....	.....	.....	.....	.....	573 90	3,114 07	2,538 75	1,320 90	2,115 13	9,602 75
New York State Dairy Commission.....	.....	.....	.....	.....	.....	550 00	.....	3,762 50	.....	4,312 50
Permits for sale, use, etc., of explosives.....	.....	.....	.....	.....	.....	.....	.....	.....	937 00	937 00
Totals.....	\$56,907 88	\$57,880 77	\$57,295 93	\$64,205 41	\$83,168 75	\$132,612 64	\$169,762 79	\$155,891 28	\$159,070 06	\$1,490,700 09

Disbursements.

FOR—	1871. 7 MONTHS.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.
Premium on city bonds.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salaries.....	\$5,950 45	\$12,276 86	.....	.....	.....	.....	.....	.....	.....	.....
Expense account.....	905 97	1,460 54	\$1,223 09	\$1,569 70	\$1,292 96	\$1,745 23	\$2,106 54	\$2,014 49	\$1,075 23	\$18 50
Pay of relieved men.....	.....	.....	.....	.....	.....	.....	.....	2,199 96	1,799 96	928 31
Pensions of retired men.....	.....	.....	.....	.....	.....	.....	.....	6,068 40	8,073 24	12,906 19
Pensions of widows and orphans.....	.....	.....	1,819 50	2,625 00	2,736 68	3,344 53	4,220 09	5,800 71	6,329 94	13,339 63
Totals.....	\$6,856 42	\$13,737 40	\$3,042 59	\$4,194 70	\$4,029 64	\$5,089 76	\$6,326 63	\$16,083 56	\$17,278 37	\$27,192 63

FOR—	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	TOTALS.
Premium on city bonds.....	.....	.....	.....	.....	.....	.....	\$2,700 00	.....	.....	\$2,700 00
Salaries.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18,227 31
Expense account.....	\$20 00	\$38 50	\$19 25	\$26 85	.....	.....	73 56	.....	.....	13,590 41
Pay of relieved men.....	858 29	7,432 54	10,789 04	10,427 46	\$9,838 58	\$17,636 20	23,134 33	\$28,250 80	\$35,209 12	148,504 59
Pensions of retired men.....	21,211 78	23,190 01	24,018 17	44,274 59	55,550 15	56,958 68	55,755 19	52,264 38	48,632 80	408,903 58
Pensions of widows and orphans.....	15,388 16	17,561 27	20,369 40	23,133 65	25,116 27	28,707 58	30,261 94	34,424 11	37,249 29	272,427 75
Totals.....	\$37,478 23	\$48,222 32	\$55,195 86	\$77,862 55	\$90,505 00	\$103,302 46	\$111,925 02	\$114,939 29	\$121,091 21	\$864,353 64

Recapitulation.

Receipts, June 1, 1871, to December 31, 1889.....	\$1,490,700 09
Disbursements, June 1, 1871, to December 31, 1889.....	864,353 64
Balance on hand December 31, 1889.....	\$626,346 45

Receipts and Disbursements of the New York Fire Department Life Insurance Fund, 1871 to 1889.

Receipts.	
1871	\$5,040 00
1872	7,773 00
1873	8,789 00
1874	6,395 00
1875	12,508 00
1876	11,074 00
1877	8,965 00
1878	9,241 00
1879	9,293 00
1880	9,640 00
1881	10,333 47
1882	10,917 34
1883	11,747 15
1884	12,845 59
1885	13,113 93
1886	17,686 53
1887	19,521 07
1888	19,764 79
1889	16,828 00
Total receipts	\$221,475 87

Disbursements.	
1871	\$5,000 00
1872	6,000 00
1873	9,000 00
1874	5,000 00
1875	14,000 00
1876	8,000 00
1877	8,000 00
1878	3,000 00
1879	9,000 00
1880	12,000 00
1881	10,000 00
1882	15,000 00
1883	9,000 00
1884	13,000 00
1885	19,000 00
1886	17,000 00
1887	20,000 00
1888	21,000 00
1889	16,000 00
Total disbursements	219,000 00
Balance on hand December 31, 1889	\$2,475 87

NEW YORK FIRE DEPARTMENT LIFE INSURANCE FUND.

Dec. 31, 1888	Balance on hand	\$1,647 87
Dec. 31, 1889	Receipts:	
	For assessments	\$16,828 00
		16,828 00
Dec. 31, 1889	Disbursements:	\$18,475 87
	To widow of John Hearn	\$1,000 00
	" " William F. Wilson	1,000 00
	" " George W. Quackenbush	1,000 00
	" " John Wright	1,000 00
	" administrator of Frank Kelly	1,000 00
	" " James Leavy	1,000 00
	" administratrix of Patrick J. McEntee	1,000 00
	" widow of Abraham Kilsheimer	1,000 00
	" " Edward W. Owens	1,000 00
	" " Samuel McMahon	1,000 00
	" " Benjamin C. Dean	1,000 00
	" administratrix of Francis Egan	1,000 00
	" widow of Henry Springsteen	1,000 00
	" " Bernard McAllister	1,000 00
	" " James F. O'Connor	1,000 00
	" " Patrick H. Stewart	1,000 00
		16,000 00
	Balance	\$2,475 87

Very respectfully,

HENRY D. PURROY,
S. HOWLAND ROBBINS,
ANTHONY EICKHOFF,
Commissioners.

CARL JUSSEN, Secretary.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION.

MEETINGS, MAY 12 TO 17, 1890.

Communications Received.

From Penitentiary—List of prisoners received during week ending May 10, 1890: Males, 24; females, 5. On file.
List of 54 prisoners to be discharged from May 18 to 24, 1890. Transmitted to Prison Association.
From N. Y. City Asylum for Insane, Blackwell's Island—History of 5 patients admitted, 7 discharged, and 5 that have died during week ending May 10, 1890. On file.
From N. Y. City Asylum for Insane, Ward's Island—History of 14 patients admitted, 5 discharged and 5 that have died during week ending May 10, 1890. On file.
From Heads of Institutions—Reporting meats, milk, fish, etc., received during week ending May 10, 1890, of good quality and up to the standard. On file.
From City Prison—Amount of fines received during week ending May 10, 1890, \$90. On file.
From City Cemetery—List of burials during week ending May 10, 1890. On file.
From the Comptroller—Statement of unexpended balances to May 10, 1890. Referred to Bookkeeper.
From District Prisons—Amount of fines received during week ending May 10, 1890, \$444. On file.
From Penitentiary—Transmitting reports of 26 convicts for the use of the Governor, by which he may commute their sentences. Secretary to forward.

From General Drug Department, Chemist—Reporting analysis of sample of condensed milk, delivered May 10, 1890, satisfactory. On file.

From Storekeeper—Rejecting blouses, potatoes, lumber, hams, tongues, furnished under contracts, they being inferior to sample. Approved.

Contracts Awarded.

D. Schmidt—1,200 pounds chicory, at 05 20-100 cents per pound; 3,000 pounds hominy, at 01 77-100 cents per pound; 16,000 pounds brown sugar, at 04 93-100 cents per pound; 2,500 pounds coffee sugar, at 05 37-100 cents per pound; 1,600 pounds cut loaf sugar, at 07 05-100 cents per pound; 2,700 pounds granulated sugar, at 06 17-100 cents per pound.

Joseph Moore—Alterations and repairs to Bellevue Hospital, for the sum of \$12,000.
Joseph Moore—For new amphitheatre under dome and new roof to Main Building of Bellevue Hospital, for the sum of \$11,995.

Appointed.

From May 8. Mary Metge, Domestic, Charity Hospital. Salary, \$144 per annum.
" 8. Elizabeth Doran, Domestic, N. Y. City Asylum for Insane, Ward's Island. Salary, \$168 per annum.
" 10. James J. McMahon, Fireman, N. Y. City Asylum for Insane, Blackwell's Island. Salary, \$360 per annum.
" 12. James Maloney, Orderly, Charity Hospital. Salary, \$240 per annum.
" 12. John Sinnott, Thomas O'Brien, Stephen Collins, Attendants, N. Y. City Asylum for Insane, Ward's Island. Salary, \$300 per annum each.
" 13. William Coleman, Night Watchman, Bellevue Hospital. Salary, \$144 per annum.
" 13. Terence Feely, Matthew Joyce, Attendants, Bellevue Hospital. Salary, \$300 per annum each.
" 13. Charles H. Woodruff, Second Mate, Steamboats. Salary, \$180 per annum.
" 13. Henry Marx, Shoemaker, Branch Workhouse. Salary, \$120 per annum.
" 13. James Carson, James J. Friel, Attendants, N. Y. City Asylum for Insane, Ward's Island. Salary, \$300 per annum each.
" 14. Michael J. Rourke, Stone-cutter, Penitentiary. Salary, \$800 per annum.
" 14. Joseph Lowe, John C. Reynolds, Attendants, N. Y. City Asylum for Insane, Ward's Island. Salary, \$300 per annum each.
" 15. Henrietta Donohue, Nurse, Workhouse. Salary, \$180 per annum.
" 15. Edith Hosford, Celia Carpenter, M. F. Glendinning, Ella J. Gillard, Nurses, Bellevue Hospital. Salary, \$120 per annum.
" 16. William Flynn, Gate Keeper, City Prison. Salary, \$600 per annum.
" 16. Michael Cunningham, Orderly, Almshouse. Salary, \$60 per annum.

Reappointed.

May 8. Lizzie Neri, Jennie Ruant, Attendants, N. Y. City Asylum for Insane, Blackwell's Island. Salary, \$216 per annum each.
" 13. William Van Giesen, Attendant, Bellevue Hospital. Salary, \$300 per annum.
" 14. Patrick Garvey, Attendant, Infants' Hospital. Salary, \$240 per annum.
" 16. John W. Whitehead, Attendant, N. Y. City Asylum for Insane, Ward's Island. Salary, \$300 per annum.

Resigned.

May 10. Samuel P. Wilson, Frank J. Kelley, P. J. Noone, Michael Reedy, J. E. Lewis, Attendants, N. Y. City Asylum for Insane, Ward's Island.
" 10. Mary Haughley, Domestic, Charity Hospital.
" 12. James Jacobson, Attendant, N. Y. City Asylum for Insane, Ward's Island.
" 13. John Downing, Attendant, N. Y. City Asylum for Insane, Ward's Island.
" 14. Paul F. Corn, Attendant, N. Y. City Asylum for Insane, Ward's Island.

Dropped from Roll.

May 6. Daniel Murphy, Fireman, N. Y. City Asylum for Insane, Ward's Island.
" 12. Frederick Eggling, Stableman, Infants' Hospital.

Place Declared Vacant.

May 11. Richard Cahill, Attendant, N. Y. City Asylum for Insane, Ward's Island.

Dismissed.

May 12. John O'Hara, Cook, Infants' Hospital.
" 12. Henry Murray, Orderly, Infants' Hospital.
" 12. Ellen Flynn, Cook, Homoeopathic Hospital.
" 13. John Miller, Night Watchman, Bellevue Hospital.
" 13. James Scallon, Attendant, N. Y. City Asylum for Insane, Ward's Island.
" 15. James Kelly, Attendant, N. Y. City Asylum for Insane, Hart's Island.
" 16. John Reynolds, Axel C. Neilson, Nurses, Charity Hospital.

Died.

May 16. Nathaniel Kelly, Painter, Penitentiary.

Salary Increased.

May 12. John T. Kelly, Attendant, Randall's Island Hospital, \$300 to \$360 per annum.
" 12. Christopher Dinkelacker, Cook, Workhouse, \$300 to \$420 per annum.
" 12. Patrick J. Kelly, Attendant, N. Y. City Asylum for Insane, Long Island, \$300 to \$360 per annum.
" 13. Robert Pugh, Attendant, N. Y. City Asylum for Insane, Ward's Island, \$300 to \$360 per annum.
" 15. Cornelius Reilly, Cook, Branch Workhouse, \$120 to \$240 per annum.
" 15. Joseph Ferris, Apothecary, Randall's Island Hospital, \$300 to \$400 per annum.

Transferred.

May 15. Daniel Sullivan, No. 2, Orderly, Randall's Island Hospital, to Cook, Infant's Hospital. Salary increased from \$240 to \$360 per annum.
" 17. David Hutchinson, Bernard Maylynn, John Reid, Thomas Hickey, Attendants, N. Y. City Asylum for Insane, Ward's Island, to N. Y. City Asylum for Insane, Long Island. Salary increased from \$300 to \$360 per annum each.

G. F. BRITTON, Secretary.

APPOINTMENTS IN THE MUNICIPAL SERVICE

NEW YORK CITY CIVIL SERVICE BOARDS,
COOPER UNION,
NEW YORK, June 2, 1890.

To the Supervisor of the City Record:

SIR—In accordance with Civil Service Regulations I hereby report the following appointments:

By the Department of Charities and Correction—
As Attendants on the Insane, on probation:
May 20. Patrick McC. Finn.
May 22. Richard O'Connor.
May 23. John F. Kelly.

By the Police Department—
May 27. As Patrolman, on probation, John Barry; character certified to by J. B. Underhill, No. 842 East One Hundred and Sixty-fifth street; John Kurvan, No. 304 East Eighty-ninth street; Irwin Collins, No. 1359 Third avenue; David Moloney, No. 303 East Eighty-first street; John Shea, No. 1533 Second avenue.

By the Department of Public Works—
May 23. As Draftsman, Edward L. Starck.
May 26. As Inspector of Construction and Pile Driving, E. J. O'Connor; character certified to by August Dux, No. 915 Eighth avenue; Thomas Kelly, No. 357 West Fifty-seventh street; L. J. O'Toole, No. 348 West Fifty-ninth street; James Maher, No. 881 Tenth avenue.
May 28. As Inspector of Construction, including Pile Driving, Peter A. Higgins; character certified to by T. J. Brennan, No. 1409 Ninth avenue; William H. Walker, No. 110 Leroy street; K. J. Joyce, No. 12 St. Luke's place; J. T. Oakley, No. 198 First avenue.
May 28. As Inspector of Construction, including Pile Driving, Thomas W. King; character certified to by Peter Garvey, No. 123 Clinton place; Henry Seebeck, No. 4 West Thirteenth street; B. C. Gaffney, No. 51 University place; John Ghee, No. 44 East Twelfth street.

Yours, respectfully,
LEE PHILLIPS, Secretary and Executive Officer.

BOARD OF CITY RECORD.

MAYOR'S OFFICE, CITY HALL,
NEW YORK, May 26, 1890.

The Hons. Hugh J. Grant, Mayor; William H. Clark, Counsel to the Corporation, and Thomas F. Gilroy, Commissioner of Public Works, the officers designated by section 66 of the New York City Consolidation Act, met this day.

The minutes of the meeting of May 22 were read and approved.

The Supervisor of the City Record reported that he had examined the bids made by the L. W. Ahrens Stationery and Printing Co. and M. B. Brown to supply the Department of Charities with blank-books, etc., and that, in his opinion, the contract should be awarded to the first-named bidder.

On motion of Commissioner Gilroy, the contract was awarded to the L. W. Ahrens Stationery and Printing Co., subject to the approval of its sureties by the Comptroller.

The following requisitions were presented and acted on as the side-notes indicate, the Supervisor being, by a concurrent vote of the Mayor, Counsel to the Corporation, and Commissioner of Public Works, authorized to procure by direct orders the articles called for on the approved requisitions:

NO.	DATE.	APPLIED FOR.	ACTION OF BOARD.
		<i>From Commissioners of Accounts.</i>	
May 22, 1890		2 reams official note-paper	Laid over.
		2,000 official envelopes	"
		<i>From Mayor's Office.</i>	
" 22, "		3 reams official note-paper	"
		1,500 official envelopes	"
		1 bottle of mucilage	"
		1 bottle of red ink	"
		<i>From Department of Street Cleaning.</i>	
" 23, "		125,000 notices to householders; changed for each of sixty districts	Allowed.

The Mayor called attention to the fact that some of the departments were asking by special requisition for articles which should have been provided for in their general requisitions sent in at the opening of the year. It seemed to him that such requests were evidence of carelessness in the departments. He therefore moved the following resolution, which was adopted:

Resolved, That the Supervisor of the City Record be directed to make careful inquiry into special requisitions from the departments and report to this body whether the articles called for are indispensable and why they were not on the general requisitions for the year.

The bill of Andrew H. Kellogg for \$68.68, chargeable against the appropriation for "Printing, Stationery and Blank Books, 1890," was approved and ordered to be sent to the Comptroller for payment.

The meeting was then adjourned.

W. J. K. KENNY, Secretary.

EXECUTIVE DEPARTMENT.

MAYOR'S OFFICE,
NEW YORK, March 4, 1890.

Pursuant to section 1, subdivision 3 of chapter 10, Laws of 1888, I hereby designate the "New Yorker Zeitung" and "New York Daily News," of the daily papers printed in the City of New York as the newspapers in which the advertisements of the public notice of the time and place of auction sales in the City of New York shall be published.

HUGH J. GRANT, Mayor.

MAYOR'S OFFICE,
NEW YORK, February 1, 1889.

Pursuant to section 9 of chapter 339, Laws of 1883, I hereby designate the "Daily News" and the "New York Morning Journal," two of the daily papers printed in the City of New York, in which notice of each sale of unredemmed pawns or pledges by public auction in said city, by pawnbrokers, shall be published for at least six days previous thereto, until otherwise ordered.

HUGH J. GRANT, Mayor.

OFFICIAL DIRECTORY.

STATEMENT OF THE HOURS DURING which all the Public Offices in the City are open for business, and at which the Courts regularly open and adjourn, as well as of the places where such offices are kept and such Courts are held; together with the heads of Departments and Courts:

EXECUTIVE DEPARTMENT

Mayor's Office.

No. 6 City Hall, 10 A. M. to 4 P. M.; Saturdays, 10 A. M. to 12 M.
HUGH J. GRANT, Mayor. LEICESTER HOLME, Secretary and Chief Clerk.

Mayor's Marshal's Office.

No. 1 City Hall, 9 A. M. to 4 P. M.
DANIEL ENGELHARD, First Marshal.
FRANK FOX, Second Marshal.

COMMISSIONERS OF ACCOUNTS.

Rooms 114 and 115, Stewart Building, 9 A. M. to 4 P. M.
MAURICE F. HOLAHAN, EDWARD P. BARKER.

AQUEDUCT COMMISSIONERS.

Room 209, Stewart Building, 5th floor, 9 A. M. to 5 P. M.
JAMES C. DUANE, President; JOHN C. SHEEHAN, Secretary; A. FTELEY, Chief Engineer; J. C. LULLEY, Auditor.

BOARD OF ARMORY COMMISSIONERS.

THE MAYOR, Chairman; PRESIDENT OF DEPARTMENT OF TAXES AND ASSESSMENTS, Secretary.
Address M. COLEMAN, Staats Zeitung Building, Tryon Row. Office hours, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.

COMMON COUNCIL.

Office of Clerk of Common Council.

No. 8 City Hall, 9 A. M. to 4 P. M.
JOHN H. V. ARNOLD, President Board of Aldermen.
FRANCIS J. TWOMEY, Clerk Common Council.

City Library.

No. 12 City Hall, 10 A. M. to 4 P. M.
JAMES H. FARRELL, City Librarian.

DEPARTMENT OF PUBLIC WORKS.

Commissioner's Office.

No. 31 Chambers street, 9 A. M. to 4 P. M.
THOMAS F. GILROY, Commissioner; BERNARD F. MARTIN, Deputy Commissioner.

Bureau of Chief Engineer.

No. 31 Chambers street, 9 A. M. to 4 P. M.
GEORGE W. BIRDSALL, Chief Engineer.

Bureau of Water Register.

No. 31 Chambers street, 9 A. M. to 4 P. M.
JOSEPH RILEY, Register.

Bureau of Street Improvements.

No. 31 Chambers street, 9 A. M. to 4 P. M.
WM. M. DEAN, Superintendent.

Bureau of Sewers.

No. 31 Chambers street, 9 A. M. to 4 P. M.
HORACE LOOMIS, Engineer-in-Charge.

Bureau of Repairs and Supplies.

No. 31 Chambers street, 9 A. M. to 4 P. M.
WILLIAM G. BERGEN, Superintendent.

Bureau of Water Purveyor.

No. 31 Chambers street, 9 A. M. to 4 P. M.
WM. H. BURKE, Water Purveyor.

Bureau of Lamps and Gas.

No. 31 Chambers street, 9 A. M. to 4 P. M.
STEPHEN MCCORMICK, Superintendent.

Bureau of Streets and Roads.

No. 31 Chambers street, 9 A. M. to 4 P. M.
JOHN B. SHEA, Superintendent.

Bureau of Incumbrances.

No. 31 Chambers street, 9 A. M. to 4 P. M.
MICHAEL F. CUMMINGS, Superintendent.

Keeper of City Hall.

MARTIN J. KESE, City Hall.

FINANCE DEPARTMENT.

Comptroller's Office.

No. 15 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
THEODORE W. MYERS, Comptroller; RICHARD A. STORRS, Deputy Comptroller.

Auditing Bureau.

Nos. 19, 21, 23 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
WILLIAM J. LYON, First Auditor.
DAVID E. AUSTEN, Second Auditor.

Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents.

Nos. 31, 33, 35, 37, 39 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
D. LOWBER SMITH, Collector of Assessments and Clerk of Arrears.

No money received after 2 P. M.

Bureau for the Collection of City Revenue and of Markets.

Nos. 1 and 3 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
JAMES DALY, Collector of the City Revenue and Superintendent of Markets.

No money received after 2 P. M.

Bureau for the Collection of Taxes.

No. 57 Chambers street and No. 35 Reade street, Stewart Building, 9 A. M. to 4 P. M.
GEORGE W. McLEAN, Receiver of Taxes; ALFRED VREDENBURGH, Deputy Receiver of Taxes.

No money received after 2 P. M.

Bureau of the City Chamberlain.

Nos. 25, 27 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
THOMAS C. T. CRAIN, City Chamberlain.

Office of the City Paymaster.

No. 33 Reade street, Stewart Building, 9 A. M. to 4 P. M.
JOHN H. TIMMERMAN, City Paymaster.

LAW DEPARTMENT.

Office of the Counsel to the Corporation.

Staats Zeitung Building, third and fourth floors, 9 A. M. to 5 P. M. Saturdays, 9 A. M. to 12 M.
WILLIAM H. CLARK, Counsel to the Corporation.
ANDREW T. CAMPBELL, Chief Clerk.

Office of the Public Administrator.

No. 49 Beekman street, 9 A. M. to 4 P. M.
CHARLES E. LYDECKER, Public Administrator.

Office of Attorney for Collection of Arrears of Personal Taxes.

Stewart Building, Broadway and Chambers street, 9 A. M. to 4 P. M.
JOHN G. H. MEYERS, Attorney.
SAMUEL BARRY, Clerk.

Office of the Corporation Attorney.

No. 49 Beekman street, 9 A. M. to 4 P. M.
LOUIS STECKLER, Corporation Attorney.

POLICE DEPARTMENT.

Central Office.

No. 300 Mulberry street, 9 A. M. to 4 P. M.
CHARLES F. MACLEAN, President; WILLIAM H. KIPP, Chief Clerk; T. F. RODENBOUGH, Chief of Bureau of Elections.

DEPARTMENT OF CHARITIES AND CORRECTION.

Central Office.

No. 66 Third avenue, corner Eleventh street, 9 A. M. to 4 P. M.
HENRY H. PORTER, President; GEORGE F. BRITTON, Secretary.

Purchasing Agent, FREDERICK A. CUSHMAN. Office hours, 9 A. M. to 4 P. M. Saturdays, 12 M.
Contracts, Proposals and Estimates for Work and Materials for Building, Repairs and Supplies, Bills and Accounts, 9 A. M. to 4 P. M. Saturdays, 12 M. CHARLES BENN, General Bookkeeper.

Out-Door Poor Department. Office hours, 8.30 A. M. to 4.30 P. M. WILLIAM BLAKE, Superintendent. Entrance on Eleventh street.

FIRE DEPARTMENT.

Office hours for all, except where otherwise noted from 9 A. M. to 4 P. M. Saturdays, to 12 M.

Headquarters.

Nos. 157 and 159 East Sixty-seventh street.
HENRY D. PURROY, President; CARL JUSSEN, Secretary.

Bureau of Chief of Department.

HUGH BONNER, Chief of Department.

Bureau of Inspector of Combustibles.

PETER SEERY, Inspector of Combustibles.

Bureau of Fire Marshal.

JAMES MITCHELL, Fire Marshal.

Bureau of Inspection of Buildings.

THOMAS J. BRADY, Superintendent of Buildings.

Attorney to Department.

WM. L. FINDLEY.

Fire Alarm Telegraph.

J. ELLIOT SMITH, Superintendent.

Central Office open at all hours.

Repair Shops.

Nos. 128 and 130 West Third street.

Hospital Stables.

Ninety-ninth street, between Ninth and Tenth avenues.

JOSEPH SHEA, Foreman-in-Charge.

Open at all hours.

HEALTH DEPARTMENT.

No. 301 Mott street, 9 A. M. to 4 P. M.
CHARLES G. WILSON, President; EMMONS CLARK, Secretary.

DEPARTMENT OF PUBLIC PARKS.

Emigrant Industrial Savings Bank Building, Nos. 49 and 51 Chambers street, 9 A. M. to 4 P. M. Saturdays, 12 M.
WALDO HUTCHINS, President; CHARLES DE F. BURNS, Secretary.

Office of Topographical Engineer.

Arsenal, Sixty-fourth street and Fifth avenue, 9 A. M. to 5 P. M.

Office of Superintendent of 23d and 24th Wards.

One Hundred and Forty-sixth street and Third avenue, 9 A. M. to 5 P. M.

DEPARTMENT OF DOCKS.

Battery, Pier A, North river.

EDWIN A. POST, President; AUGUSTUS T. DOCHARTY, Secretary.

Office hours, from 9 A. M. to 4 P. M.

DEPARTMENT OF TAXES AND ASSESSMENTS

Staats Zeitung Building, Tryon Row, 9 A. M. to 4 P. M. Saturdays, 12 M.

MICHAEL COLEMAN, President; FLOYD T. SMITH, Secretary.

DEPARTMENT OF STREET CLEANING.

Stewart Building. Office hours, 9 A. M. to 4 P. M.
HANS S. BEATTIE, Commissioner; WILLIAM DALTON, Deputy Commissioner; GILBERT O. F. NICOLL, Secretary; HENRY W. BEARDSLEY, Chief Clerk.

CIVIL SERVICE SUPERVISORY AND EXAMINING BOARDS.

Cooper Union, 9 A. M. to 4 P. M.
JAMES THOMSON, Chairman of the Supervisory Board; LEE PHILLIPS, Secretary and Executive Officer.

BOARD OF ESTIMATE AND APPORTIONMENT

Office of Clerk, Staats Zeitung Building, Room 5.
The MAYOR, Chairman; CHARLES V. ADEE, Clerk.

BOARD OF ASSESSORS.

Office, 27 Chambers street, 9 A. M. to 4 P. M.
EDWARD GILON, Chairman; WM. H. JASPER, Secretary.

BOARD OF EXCISE.

No. 54 Bond street, 9 A. M. to 4 P. M.
ALEXANDER MEAKIN, President; JAMES F. BISHOP, Secretary and Chief Clerk.

SHERIFF'S OFFICE.

Nos. 6 and 7 New County Court-house, 9 A. M. to 4 P. M.
DANIEL E. SICKLES, Sheriff; JOHN B. SEXTON, Under Sheriff; JOHN M. TRACY, Order of Arrest Clerk.

REGISTER'S OFFICE.

East side City Hall Park, 9 A. M. to 4 P. M.
FRANK T. FITZGERALD, Register; JAMES A. HANLEY, Deputy Register.

COMMISSIONER OF JURORS.

Room 127, Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
CHARLES REILLY, Commissioner; JAMES E. CONNER, Deputy Commissioner.

COUNTY CLERK'S OFFICE.

Nos. 7 and 8 New County Court-house, 9 A. M. to 4 P. M.
EDWARD F. REILLY, County Clerk; P. J. SCULLY, Deputy County Clerk.

DISTRICT ATTORNEY'S OFFICE.

Second floor, Brown-stone Building, City Hall Park, 9 A. M. to 4 P. M.
JOHN R. FELLOWS, District Attorney; THOMAS COSTIGAN, Chief Clerk.

THE CITY RECORD OFFICE.

And Bureau of Printing, Stationery, and Blank Books.
No. 2 City Hall, 9 A. M. to 5 P. M., except Saturdays, on which days 9 A. M. to 12 M.
W. J. K. KENNY, Supervisor; DAVID RYAN, Assistant Supervisor; JOHN J. McGRATH, Examiner.

CORONERS' OFFICE.

Nos. 13 and 15 Chatham street, 8 A. M. to 5 P. M. Sundays and holidays, 8 A. M. to 12.30 P. M.
MICHAEL J. B. MESSEMER, FERDINAND LEVY, DANIEL HANLY, LOUIS W. SCHULTZ, Coroners; EDWARD F. REYNOLDS, Clerk of the Board of Coroners.

SURROGATE'S COURT.

New County Court-house. Court opens at 10.30 A. M.
RUSTUS S. RANSOM, Surrogate; WILLIAM V. LEARY, Chief Clerk.

POLICE DEPARTMENT.

PROPERTY CLERK'S OFFICE,

POLICE DEPARTMENT OF THE CITY OF NEW YORK,
Room 9, No. 300 MULBERRY STREET,
NEW YORK, May 27, 1890.

SEVENTEENTH AUCTION SALE, ON THURSDAY, June 26, 1890, at Police Headquarters, at 10 A. M., by Van Tassel & Kearney, Auctioneers, of Police, Cartage and Unclaimed Property, consisting of Watches, Jewelry and Silverware, Male and Female Clothing, Shoes, etc., Revolvers, Pistols, Guns, Knives, Pocket-books, Umbrellas, Cans, Canned Goods, Iron, Lead, Brass, Copper, Glass, Wardrobes, Bedsteads, Carpet, Furniture, Harness, Chairs, and a lot of miscellaneous articles.
For particulars see catalogues on day of sale.

JOHN F. HARRIOT,

Property Clerk.

POLICE DEPARTMENT OF THE CITY OF NEW YORK,

Room 9, No. 300 MULBERRY STREET,
NEW YORK, May 27, 1890.

PUBLIC NOTICE IS HEREBY GIVEN THAT four Horses, the property of this Department, will be sold at Public Auction, on Friday, June 6, 1890, at 10 o'clock A. M., by Van Tassel & Kearney, Auctioneers, at their stables, Nos. 130 and 132 East Thirteenth street.

By order of the Board.

WM. H. KIPP,

Chief Clerk.

POLICE DEPARTMENT—CITY OF NEW YORK,

OFFICE OF THE PROPERTY CLERK (Room No. 9),
No. 300 MULBERRY STREET,
NEW YORK, 1890.

OWNERS WANTED BY THE PROPERTY Clerk of the Police Department of the City of New York, No. 300 Mulberry street, Room No. 9, for the following property, now in his custody, without claimants: Boats, rope, iron, lead, male and female clothing, boots, shoes, wine, blankets, diamonds, canned goods, liquors, etc., also small amount money taken from prisoners and found by patrolmen in this Department.

JOHN F. HARRIOT,

Property Clerk.

FINANCE DEPARTMENT.

CITY OF NEW YORK,

FINANCE DEPARTMENT,

COMPTROLLER'S OFFICE,
May 28, 1890.

NOTICE TO PROPERTY-OWNERS.

IN PURSUANCE OF SECTION 997 OF THE "New York City Consolidation Act of 1882," the Comptroller of the City of New York hereby gives public notice to all persons, owners of property, affected by the assessment lists in the matter of acquiring title to West One Hundred and Twentieth street, between Tenth avenue and Morningside avenue, and West One Hundred and Twenty-first street, between Tenth avenue and Morningside avenue, which were confirmed by the Supreme Court, May 17, 1890, and entered on the 23d day of May, 1890, in the Record of Titles of Assessments, kept in the "Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents," that unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessment, interest will be collected thereon, as provided in section 998 of said "New York City Consolidation Act of 1882."

Section 998 of the said act provides that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated from the date of such entry to the date of payment."

The above assessments are payable to the Collector of Assessments and Clerk of Arrears, at the "Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents," Room 31, Stewart Building, between the hours of 9 A. M. and 2 P. M., and all payments made thereon, on or before July 23, 1890, will be exempt from interest as above provided, and after that date will be subject to a charge of interest at the rate of seven per cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

THEODORE W. MYERS,

Comptroller.

REAL ESTATE RECORDS.

THE ATTENTION OF LAWYERS, REAL Estate Owners, Monetary Institutions engaged in making loans upon real estate, and all who are interested in providing themselves with facilities for reducing the cost of examinations and searches, is invited to these Official Indices of Records, containing all recorded transfers of real estate in the City of New York from 1653 to 1857, prepared under the direction of the Commissioners of Records.

Grantors, grantees, suits in equity, insolvents' and Sheriff's sales in 61 volumes, full bound, price

The same in 25 volumes, half bound

Complete sets, folded, ready for binding

Records of Judgments, 25 volumes, bound

Orders should be addressed to "Mr. Stephen Angell, Room 23, Stewart Building."

THEODORE W. MYERS,

Comptroller.

JURORS.

NOTICE OF COMMISSIONER OF JURORS
IN REGARD TO CLAIMS FOR EX-
EMPTION FROM JURY DUTY.

ROOM 127, STEWART BUILDING,
NO. 280 BROADWAY, THIRD FLOOR,
NEW YORK, JUNE 1, 1890.

CLAIMS FOR EXEMPTION FROM JURY
duty will be heard by me daily at my office, from
9 A. M. until 4 P. M.

Those entitled to exemption are: Clergymen, lawyers,
physicians, surgeons, surgeon-dentists, professors or
teachers in a college, academy or public school, licensed
pharmacists or pharmacists, actually engaged in their
respective professions and not following any other calling;
militiamen, policemen, and firemen; election
officers, jury non-residents, and city employees, and
United States employees; officers of vessels making
regular trips; licensed pilots, actually following that
calling; superintendents, conductors and engineers of
a railroad company other than a street railroad company;
telegraph operators actually doing duty as such;
Grand, Sheriff's, and Civil Court jurors; stationary
engineers; and persons physically incapable of per-
forming jury duty by reason of severe sickness, deat-
ness, or other physical disorder.

Those who have not answered as to their liability, or
proved permanent exemption, will receive a "jury en-
rollment notice," requiring them to appear before me
this year. Whether liable or not, such notices must be
answered (in person, if possible), and at this office only,
under severe penalties. It exempts, the party must
bring proof of exemption; if liable, he must also answer
in person, giving full and correct name, residence, etc.,
etc. No attention paid to letters.

Persons "enrolled" as liable must serve when called
or pay their fines. No mere excuse will be allowed or
interference permitted. The fines, if unpaid, will be en-
tered as judgments upon the property of the delinquents.

All good citizens will aid the course of justice, and
secure reliable and respectable juries, and equalize their
duty by serving promptly when summoned, allowing
their clerks or subordinates to serve reporting to me
any attempt at bribery or evasion, and suggesting names
for enrollment. Persons between sixty and seventy
years of age, summer absentees, persons temporarily
ill, and United States jurors, are not exempt.

Every man must attend to his own notice. It is a
misdemeanor to give any jury paper to another to
answer. It is also punishable by fine or imprisonment
to give or receive any present or bribe, directly or indi-
rectly, in relation to a jury service, or to withhold any
paper or make any false statement and every case will
be fully prosecuted.

CHARLES REILLY,
Commissioner of Jurors.

FIRE DEPARTMENT.

HEADQUARTERS
FIRE DEPARTMENT, CITY OF NEW YORK,
157 AND 159 EAST SIXTY-SEVENTH STREET,
NEW YORK, May 27, 1890.

TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING THE
materials and labor and doing the work required in
repairing and altering the following buildings of this
Department, viz.: Quarters of Engine Company No. 2,
at No. 530 West Forty-third street, and of Engine Com-
pany No. 19, at No. 355 West Twenty-fifth street, will
be received by the Board of Commissioners at the head
of the Fire Department, at the office of said Department,
Nos. 157 and 159 East Sixty-seventh street, in the City
of New York, until 10 o'clock A. M. Wednesday, June
11, 1890, at which time and place they will be publicly
opened by the head of said Department and read.

A separate estimate must be made for each building.
No estimate will be received or considered after the
hour named.

For information as to the amount and kind of work to
be done, bidders are referred to the specifications, and
drawings (for the quarters of Engine Co. No. 2 only),
which form part of these proposals.

The form of the agreement and the specifications,
showing the manner of payment for the work and
forms of proposals, may be obtained and the plans may
be seen at the office of the Department.

Bidders must write out the amount of their estimate
in addition to inserting the same in figures.

The work is to be completed and delivered within
thirty (30) days after the execution of the contract.

The damages to be paid by the contractor for each day
that the contract may be unfulfilled after the time speci-
fied for the completion thereof shall have expired are
fixed and liquidated at ten (10) dollars.

The award of the contract will be made as soon as
practicable after the opening of the bids.

Any person making an estimate for the work shall
present the same in a sealed envelope to said Board, at
said office, on or before the day and hour above named,
which envelope shall be indorsed with the name or
names of the person or persons presenting the same, the
date of its presentation and a statement of the work
to which it relates.

The Fire Department reserves the right to decline
any and all bids or estimates if deemed to be for the
public interest. No bid or estimate will be accepted
from, or contract awarded to, any person who is in
arrears to the Corporation upon debt or contract, or who
is a defaulter, as surety or otherwise, upon any obliga-
tion to the Corporation.

Each bid or estimate shall contain and state the name
and place of residence of each of the persons making the
same; the names of all persons interested with him or
them therein; and if no other person be so interested,
it shall distinctly state that fact; and that it is made with-
out any connection with any other person making an estimate
for the same purpose, and is in all respects fair and with-
out collusion or fraud; and that no member of the Com-
mon Council, Head of a Department, Chief of a Bureau,
Deputy thereof, or Clerk therein, or other officer of the
Corporation, is directly or indirectly interested therein, or
in the supplies or work to which it relates, or in any por-
tion of the profits thereof. The bid or estimate must be
verified by the oath, in writing, of the party or parties
making the estimate, that the several matters stated
therein are in all respects true. Where more than one
person is interested, it is requisite that the verification
be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the con-
sent, in writing, of two householders or freeholders of the
City of New York, with their respective places of
business or residence, to the effect that if the contract be
awarded to the person making the estimate, they will,
on its being so awarded, become bound as sureties for
its faithful performance, in the sum of eight hun-
dred (800) dollars, and that if he shall omit or refuse to
execute the same, they will pay to the Corporation any
difference between the sum to which he would be enti-
tled on its completion, and that which the Corpora-
tion may be obliged to pay to the person or
persons to whom the contract may be awarded at
any subsequent letting; the amount in each case to be
calculated upon the estimated amount of the work by
which the bids are tested. The consent above men-
tioned shall be accompanied by the oath or affirmation,
in writing, of each of the persons signing the same, that
he is a householder or freeholder in the City of New
York, and is worth the amount of the security required

for the completion of this contract, over and above all
his debts of every nature, and over and above his li-
abilities as bail, surety, or otherwise, and that he has
offered himself as a surety in good faith and with the
intention to execute the bond required by law. The
adequacy and sufficiency of the security offered is to be
approved by the Comptroller of the City of New York
before the award is made and prior to the signing of the
contract.

No estimate will be considered unless accompanied
by either a certified check upon one of the banks of the
City of New York, drawn to the order of the Com-
ptroller, or money to the amount of forty (40) dollars.
Such check or money must not be included in the
sealed envelope containing the estimate, but must be
handed to the officer or clerk of the Department
who has charge of the estimate-box, and no estimate
can be deposited in said box until such check or money
has been examined by said officer or clerk and found to be
correct. All such deposits, except that of the success-
ful bidder, will be returned to the persons making the
same, within three days after the contract is awarded.
If the successful bidder shall refuse or neglect, within
five days after notice that the contract has been
awarded to him, to execute the same, the amount of the
deposit made by him shall be forfeited and retained
by the City of New York as liquidated damages for
such neglect or refusal; but if he shall execute the con-
tract within the time aforesaid, the amount of his
deposit will be returned to him.

Should the person or persons to whom the contract
may be awarded neglect or refuse to accept the contract
within five days after written notice that the same has
been awarded to his or their bid or proposal, or if he or
they accept but do not execute the contract and give the
proper security, he or they shall be considered as having
abandoned it, and as in default to the Corporation, and
the contract will be readvertised and relet as provided
by law.

HENRY D. PURROY,
S. HOWLAND ROBBINS,
ANTHONY EICKHOFF,
Commissioners.

DEPARTMENT OF PUBLIC CHAR-
ITIES AND CORRECTION.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,
No. 66 THIRD AVENUE.

TO CONTRACTORS.

PROPOSALS FOR FLOUR.

SEALED BIDS OR ESTIMATES FOR FUR-
nishing and delivering, free of all expense, at the
Bake-house dock, Blackwell's Island (east side), 4,000
barrels extra Wheat Flour, in lots of 500 to 1,000 barrels
one-half of each quality, as follows, to be delivered in
barrels only:

2,000 barrels of sample marked No. 1.
2,000 barrels of sample marked No. 2.
—will be received at the office of the Department of
Public Charities and Correction, No. 66 Third Avenue,
in the City of New York, until 9:30 o'clock A. M. of
Friday, June 13, 1890. The person or persons mak-
ing any bid or estimate shall furnish the same in a
sealed envelope, indorsed "Bid or Estimate for Flour,"
and with his or their name or names, and the date
of presentation, to the head of said Department, at the
said office, on or before the day and hour above named,
at which time and place the bids or estimates received
will be publicly opened by the President of said Depart-
ment and read.

The contractor shall furnish a certificate of inspection
by the Flour Inspector of the New York Produce
Exchange, also an award from the Committee on Flour
of the Exchange, that the flour offered is equal to the
standards of the Department, and which certificate shall
accompany each delivery of flour, the expense of such
inspection and award to be borne by the contractor, also
certificate of weight and tare to be furnished with each
delivery.

THE BOARD OF PUBLIC CHARITIES AND CORRECTION
RESERVES THE RIGHT TO REJECT ALL BIDS OR ESTIMATES
IF DEEMED TO BE FOR THE PUBLIC INTEREST, AS PRO-
VIDED IN SECTION 64, CHAPTER 410, LAWS OF 1882.

No bid or estimate will be accepted from, or contract
awarded to, any person who is in arrears to the Cor-
poration upon debt or contract, or who is a defaulter,
as surety or otherwise, upon any obligation to the Cor-
poration.

The award of the contract will be made as soon as
practicable after the opening of the bids.

Delivery will be required to be made from time to
time, and in such quantities as may be directed by the
said Commissioners.

Any bidder for this contract must be known to be
engaged in and well prepared for the business, and must
have satisfactory testimonials to that effect, and the per-
son or persons to whom the contract may be awarded
will be required to give security for the performance of
the contract by his or their bond, with two sufficient
sureties, each in the penal amount of fifty (50) per cent.
of the ESTIMATED amount of the contract.

Each bid or estimate shall contain and state the name
and place of residence of each of the persons making the
same; the names of all persons interested with him or
them therein; and if no other person be so interested,
it shall distinctly state that fact; also that it is made with-
out any connection with any other person making an estimate
for the same purpose, and is in all respects fair and with-
out collusion or fraud; and that no member of the Com-
mon Council, Head of a Department, Chief of a Bureau,
Deputy thereof, or Clerk therein, or other officer of the
Corporation, is directly or indirectly interested therein, or
in the supplies or work to which it relates, or in any por-
tion of the profits thereof. The bid or estimate must be
verified by the oath, in writing, of the party or parties
making the estimate, that the several matters stated
therein are in all respects true. Where more than one
person is interested, it is requisite that the verification
be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the con-
sent, in writing, of two householders or freeholders in the
City of New York, with their respective places of
business or residence, to the effect that if the contract be
awarded to the person making the estimate, they will,
on its being so awarded, become bound as his
sureties for its faithful performance; and that if he shall
omit or refuse to execute the same, they will pay to the
Corporation any difference between the sum to which he
would be entitled on its completion, and that which the Cor-
poration may be obliged to pay to the person or persons
to whom the contract may be awarded at any subsequent
letting; the amount in each case to be calculated upon the
estimated amount of the work by which the bids are
tested. The consent above mentioned shall be accompa-
nied by the oath or affirmation, in writing, of each of the
persons signing the same, that he is a householder or freeholder in the City of New
York, and is worth the amount of the security required

for the completion of this contract, over and above all
his debts of every nature, and over and above his li-
abilities as bail, surety, or otherwise, and that he has
offered himself as a surety in good faith and with the
intention to execute the bond required by section 12 of
chapter 7 of the Revised Ordinances of the City of New
York, if the contract shall be awarded to the person or
persons for whom he consents to become surety. The
adequacy and sufficiency of the security offered to be
approved by the Comptroller of the City of New York.

No bid or estimate will be considered unless accom-
panied by either a certified check upon one of the
State or National banks of the City of New York,
drawn to the order of the Comptroller, or money,
to the amount of five per centum of the amount
of the security required for the faithful performance of
the contract. Such check or money must not be

included in the sealed envelope containing the estimate,
but must be handed to the officer or clerk of the Depart-
ment who has charge of the estimate-box, and no
estimate can be deposited in said box until such check
or money has been examined by said officer or clerk
and found to be correct. All such deposits, except that
of the successful bidder, will be returned to the persons
making the same within three days after the contract is
awarded. If the successful bidder shall refuse or neglect
within five days after notice that the contract has been
awarded to him, to execute the same, the amount of the
deposit made by him shall be forfeited and retained
by the City of New York, as liquidated damages for
such neglect or refusal; but if he shall execute the con-
tract within the time aforesaid, the amount of his deposit
will be returned to him.

Should the person or persons to whom the contract
may be awarded neglect or refuse to accept the contract
within five days after written notice that the same has
been awarded to his or their bid or proposal, or if he or
they accept but do not execute the contract and give the
proper security, he or they shall be considered as hav-
ing abandoned it, and as in default to the Corpora-
tion; and the contract will be readvertised and relet as
provided by law.

The quality of the articles, supplies, goods, wares, and
merchandise must conform in every respect to the sam-
ples of the same on exhibition at the office of the said
Department. Bidders are cautioned to examine the
specifications for particulars of the articles, etc., re-
quired before making their estimates.

Bidders will state the price for each article, by which
the bids will be tested.

Bidders will write out the amount of their estimates
in addition to inserting the same in figures.

Payment will be made by a requisition on the Com-
ptroller, in accordance with the terms of the contract, or
from time to time, as the Commissioners may determine.
The form of the contract, including the specifications,
and showing the manner of payment, will be furnished at
the office of the Department; and bidders are cautioned
to examine each and all of its provisions carefully, as
the Board of Public Charities and Correction will insist
upon its absolute enforcement in every particular.

Dated NEW YORK, June 2, 1890.
HENRY H. PORTER, President,
CHARLES E. SIMMONS, M. D.,
EDWARD C. SHEEHY,
Commissioners Public Charities and Correction.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,
No. 66 THIRD AVENUE.

TO CONTRACTORS.

PROPOSALS FOR GROCERIES, DRY-
GOODS, LUMBER, ETC.

SEALED BIDS OR ESTIMATES FOR FUR-
nishing

GROCERIES, ETC.
8,521 pounds Dairy Butter, sample on exhibition
Thursday, June 12, 1890.
1,500 pounds Dried Apples.
2,400 pounds Barley, price to include packages.
4,600 pounds Rio Coffee, roasted.
1,000 pounds Maracaibo Coffee, roasted.
4,600 pounds Oatmeal, price to include packages.
3,000 pounds Hominy, price to include packages.
6,000 pounds Rice.
1,000 pounds Macaroni.
16,000 pounds Brown Sugar.
2,500 pounds Coffee Sugar.
1,200 pounds Cut Loaf Sugar.
2,000 pounds Granulated Sugar.
2,000 pounds Oolong Tea.
1,200 gallons Syrup, in barrels.
10 barrels Pickles, 40-gallon barrels; 2,000 per
barrel.
50 barrels first quality Sal-Soda, about 340 pounds
per barrel.
3,600 dozen Fresh Eggs, all to be candled.
50 dozen Canned Corn.
40 dozen Canned Peas.
40 dozen Canned Peaches.
38 pieces prime quality City Cured Bacon, to
average about 6 pounds each.
45 prime quality City Cured Smoked Hams, to
average about 14 pounds each.
21 prime quality City Cured Smoked Tongues,
to average about 6 pounds each.
615 barrels good sound White Potatoes, to weigh
172 pounds net per barrel.
50 barrels prime Red or Yellow Onions, to weigh
150 pounds net per barrel.
300 barrels first quality Kale.
120 bales first quality long bright Rye Straw, tare
not to exceed three pounds; weight charged
as received at Blackwell's Island.
75 bales first quality Timothy Hay, tare and
weight same as on straw.

CROCKERY, DRY GOODS, ETC.
2 gross Chambers.
50 gross Shoe Binding.
500 pounds pure S. A. Curled Hair.
50 dozen Handkerchiefs.
25 barrels first quality Plaster Paris.
50 barrels first quality Common Lime.
25 barrels first quality Chloride of Lime, contain-
ing not less than 32 per cent. of chlorine.

LUMBER.
50,000 feet first quality Coffin Box Boards, 1" x 12 to
15" x 12 to 16 feet, dressed one side.
175 first quality, White Pine Boards, 1 1/4" x 4 1/2" x
12 feet, tongued, grooved and dressed.
30 pieces first quality Spruce, 3" x 12" x 26 feet.
30 pieces first quality Spruce, 3" x 12" x 17 feet.
200 line feet first quality Spruce, 2" x 3".
200 pieces first quality Spruce Furring, 1 1/4" x 2,"
Pine Flooring, cone or vertical grained,
1 1/4" x 3 1/2" dressed, tongued and grooved.
75 first quality White Pine Boards, 1" x 9" x 13
feet dressed, tongued and grooved.
25 pieces first quality Spruce, 3" x 7" x 20 feet.
35 pieces first quality Spruce, 2" x 10" x 13 feet.
25 pieces first quality Spruce, 1 1/4" x 10" x 13 feet.

All lumber to be delivered at Blackwell's Island.
—will be received at the office of the Department of
Public Charities and Correction, in the City of New
York, until 9:30 o'clock A. M. of Friday, June 13, 1890.
The person or persons making any bid or estimate shall
furnish the same in a sealed envelope, indorsed "Bid
or Estimate for Groceries, Dry Goods, Lumber, etc.,"
with his or their name or names, and the date of
presentation, to the head of said Department, at the
said office, on or before the day and hour above named,
at which time and place the bids or estimates received
will be publicly opened by the President of said Depart-
ment and read.

THE BOARD OF PUBLIC CHARITIES AND CORRECTION
RESERVES THE RIGHT TO REJECT ALL BIDS OR ESTI-
MATES IF DEEMED TO BE FOR THE PUBLIC INTEREST,
AS PROVIDED IN SECTION 64, CHAPTER 410, LAWS OF
1882.

No bid or estimate will be accepted from, or contract
awarded to, any person who is in arrears to the Cor-
poration upon debt or contract, or who is a defaulter,
as surety or otherwise, upon any obligation to the Cor-
poration.

The award of the contract will be made as soon as
practicable after the opening of the bids.

Delivery will be required to be made from time to
time, and in such quantities as may be directed by the
said Commissioners.

Any bidder for this contract must be known to be en-
gaged in and well prepared for the business, and must
have satisfactory testimonials to that effect, and the per-
son or persons to whom the contract may be awarded
will be required to give security for the performance of
the contract by his or their bond, with two sufficient
sureties, in the penal amount of fifty (50) per cent.
of the ESTIMATED amount of the contract.

Each bid or estimate shall contain and state the name
and place of residence of each of the persons making the
same; the names of all persons interested with him or
them therein; and if no other person be so interested,
it shall distinctly state that fact; also that it is made
without any connection with any other person making
an estimate for the same purpose, and is in all respects
fair and without collusion or fraud; and that no member
of the Common Council, Head of a Department, Chief
of a Bureau, Deputy thereof, or Clerk therein, or other
officer of the Corporation, is directly or indirectly in-
terested therein, or in the supplies or work to which it
relates, or in any portion of the profits thereof. The
bid or estimate must be verified by the oath, in writing,
of the party or parties making the estimate, that the
several matters stated therein are in all respects true.
Where more than one person is interested, it is requisite
that the VERIFICATION be made and subscribed by all the
parties interested.

Each bid or estimate shall be accompanied by the con-
sent, in writing, of two householders or freeholders in the
City of New York, with their respective places of
business or residence, to the effect that if the contract be
awarded to the person making the estimate, they will,
on its being so awarded, become bound as his
sureties for its faithful performance; and that if he shall
omit or refuse to execute the same, they will pay to the
Corporation any difference between the sum to which he
would be entitled on its completion, and that which the
Corporation may be obliged to pay to the person or
persons to whom the contract may be awarded at any
subsequent letting; the amount in each case to be cal-
culated upon the estimated amount of the work by
which the bids are tested. The consent above men-
tioned shall be accompanied by the oath or affirmation,
in writing, of each of the persons signing the same, that
he is a householder or freeholder in the City of New
York, and is worth the amount of the security required
for the completion of this contract, over and above all
his debts of every nature, and over and above his li-
abilities as bail, surety or otherwise; and that he has
offered himself as a surety in good faith and with the
intention to execute the bond required by section 12 of
chapter 7 of the Revised Ordinances of the City of New
York, if the contract shall be awarded to the per-
son or persons for whom he consents to become surety.
The adequacy and sufficiency of the security offered to be
approved by the Comptroller of the City of New York.

No bid or estimate will be considered unless accom-
panied by either a certified check upon one of the
State or National banks of the City of New York,
drawn to the order of the Comptroller, or money, to the
amount of five per centum of the amount of the security
required for the faithful performance of the contract.
Such check or money must not be included in the sealed
envelope containing the estimate, but must be handed to
the officer or clerk of the Department who has charge of
the estimate-box, and no estimate can be deposited in
said box until such check or money has been examined by
said officer or clerk and found to be correct. All such
deposits, except that of the successful bidder, will be re-
turned to the persons making the same within three days
after the contract is awarded. If the successful bidder
shall refuse or neglect, within five days after notice that
the contract has been awarded to him, to execute the
same, the amount of the deposit made by him shall be
forfeited and retained by the City of New York, as
liquidated damages for such neglect or refusal; but if he
shall execute the contract within the time aforesaid, the
amount of his deposit will be returned to him.

Should the person or persons to whom the contract
may be awarded neglect or refuse to accept the contract
within five days after written notice that the same has
been awarded to his or their bid or proposal, or if he or
they accept but do not execute the contract and give the
proper security, he or they shall be considered as hav-
ing abandoned it and as in default to the Corpora-
tion, and the contract will be readvertised and relet as
provided by law.

The quality of the articles, supplies, goods, wares and
merchandise must conform in every respect to the sam-
ples of the same on exhibition at the office of the said
Department. Bidders are cautioned to examine the
specifications for particulars of the articles, etc., re-
quired, before making their estimates.

Bidders will state the price for each article, by which
the bids will be tested.

Bidders will write out the amount of their estimate in
addition to inserting the same in figures.

Payment will be made by a requisition on the Com-
ptroller, in accordance with the terms of the contract, or
from time to time, as the Commissioners may determine.

The form of the contract, including specifications, and
showing the manner of payment, will be furnished at
the office of the Department; and bidders are cautioned
to examine each and all of its provisions carefully, as
the Board of Public Charities and Correction will insist
upon its absolute enforcement in every particu-
lar.

Dated NEW YORK, June 2, 1890.
HENRY H. PORTER, President,
CHAS. E. SIMMONS, M. D.,
EDWARD C. SHEEHY,
Commissioners of Public Charities and Correction.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,
No. 66 THIRD AVENUE.

TO CONTRACTORS.

PROPOSALS FOR GROCERIES, HARD-
WARE, LEATHER, LUMBER, ETC.

SEALED BIDS OR ESTIMATES FOR FUR-
nishing

GROCERIES, ETC.
8,459 pounds Dairy Butter, sample on exhibition
Monday, June 2, 1890.
1,600 pounds Cheese.
1,000 pounds Dried Apples.
2,400 pounds Barley, price to include packages.
700 pounds Cocoa.
4,600 pounds Rio Coffee, roasted.
1,000 pounds Maracaibo Coffee, roasted.
1,200 pounds Chicory.
2,000 pounds Wheaten Grits, price to include pack-
ages.
3,000 pounds Hominy, price to include packages.
4,000 pounds Oatmeal, price to include packages.
6,000 pounds Rice.
16,000 pounds Brown Sugar.
1,200 pounds Laundry Starch, 40-pound boxes.
600 pounds Corn Starch, one-pound packages.
2,500 pounds Oolong Tea.
1,200 gallons Syrup, in barrels.
150 bushels Beans.
200 bushels Rye.
100 barrels Crackers.
3,600 dozen Eggs, all to be candled.
40 dozen Canned Tomatoes.
20 dozen Worcestershire Sauce.
24 dozen Sapolio.
6 dozen Olive Oil.
37 pieces prime quality City-cured Bacon, to aver-
age about 6 pounds each.
47 prime quality City-cured Smoked Hams, to
average about 14 pounds each.
22 prime quality City-cured Smoked Tongues,
to average about 6 pounds each.
424 barrels good sound White Potatoes, to weigh
172 pounds net per barrel.
50 barrels good Red or Yellow Onions, 150 pounds
net per barrel.
300 barrels Kale, first quality.
177 bales prime quality long bright Rye Straw, tare
not to exceed 3 pounds; weight charged as
received at Blackwell's Island.

CROCKERY, HARDWARE, ETC.
2 gross Spick-cups.
1 gross Male Urinals.

5 gross Bowls.
12 dozen Glass-cutters.
12 dozen Socks.
12 dozen Flat Shovels.
12 boxes Brass-head Chair Nails.
100 papers Finishing Nails, 25 each, 3/4", 1", 1 1/4", 1 1/2".
20 gross Table Spoons.
10 gross Tea Spoons.
5 boxes prime quality Charcoal Tins, IXXX.
14 x 20.
20 boxes prime quality Charcoal Tin, IX., 10 x 14.
12 dozen Whitewash Brushes.
10 coils, 5-thread Manila Rope first quality.
250 sides Sole Leather, good damaged, 21 and 25 pounds each.
250 sides waxed Kip Leather, to average about 11 feet.
1,000 pounds Offal Leather.
10,000 pounds White Lead in oil, free from all adulterations and any added impurities, and subject to analysis if necessary, 50 100s, 55 50s, 100 25s.

LUMBER.
1,200 feet Clear Pine, 7/8", dressed one side.
30 Ash Boards, 1 1/2" x 14" x 13", dressed two sides.
7 Ash Boards, 2" x 14" x 13", dressed two sides.
9 Ash Boards, 1 1/2" x 14" x 13", dressed two sides.
8 Ash Boards, 3/4" x 14" x 13", dressed two sides.
200 square feet first quality, seasoned, cone or vertical grained Georgia Yellow Pine Flooring, 2" x 3 1/2", tongued and grooved, dressed two sides.
250 feet Hickory Plank, 2".
500 feet clear White Pine, 3/4" x 9 1/2", tongued and grooved, headed and planed both sides.
500 feet clear White Pine, 3/4" x 4 1/2", tongued, grooved, headed and dressed both sides.
500 feet clear White Pine, 1 1/2", dressed both sides.
500 feet clear White Pine, 2", dressed both sides.
29 pieces Spruce, 3" x 8" x 20'.
250 Flooring Boards, 1" x 9" x 12'.
2,100 pieces Spruce Roofing Plank, 1 1/2" x 8 1/2" x 13', tongued and grooved, dressed one side.
1 piece Spruce, 8" x 14" x 20'.
1 piece Spruce, 8" x 14" x 27'.
1 piece Spruce, 8" x 14" x 13'.
2 pieces Spruce, 4" x 12" x 26'.
3,000 feet Ash Flooring, 2" x 3 1/2", well seasoned and free from knots.
1,000 feet Spruce 3/4", tongued and grooved, dressed one side.
68 bunches Shingles to cover 1,650 square feet XXX clear pine sawed.
75 Chestnut Posts dressed, 3' 9" above ground, 2 1/2" below. The part above ground to be turned to be 13" in circumference at top and flat.
30 Chestnut Posts, undressed, 6' 3" long, 8" diameter at top.
2,500 feet Spruce Boards, 13' long, 8 1/2" wide, 1" thick, tongued and grooved, planed on both sides.
2,000 feet Hemlock Boards, 11" x 10" x 13'.
3 Oak Joists, 5" x 4" x 12', dressed both sides.
200 Spruce Joists, 2" x 12" x 12'.
100 Spruce Joists, 2" x 4" x 16'.
20 Spruce Joists, 6" x 6" x 15'.
20 Spruce Joists, 2" x 8" x 20'.

All lumber to be delivered at Blackwell's Island, except the above last nine items, which are to be delivered on cars of the Long Island Railroad for Central Islip, L. I.

—will be received at the office of the Department of Public Charities and Correction, in the City of New York, until 9.30 o'clock A. M. of Tuesday, June 3, 1890. The person or persons making any bid or estimate shall furnish the same in a sealed envelope, in dorsed "Bid or Estimate for Groceries, Hardware, Leather, Lumber, etc." with his or their name or names, and the date of presentation, to the head of said Department, at the said office, on or before the day and hour above named, at which time and place the bids or estimates received will be publicly opened by the President of said Department and read.

THE BOARD OF PUBLIC CHARITIES AND CORRECTION RESERVES THE RIGHT TO REJECT ALL BIDS OR ESTIMATES IF DEEMED TO BE FOR THE PUBLIC INTEREST, AS PROVIDED IN SECTION 64, CHAPTER 410, LAWS OF 1882.

No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The award of the contract will be made as soon as practicable after the opening of the bids.

Delivery will be required to be made from time to time, and in such quantities as may be directed by the said Commissioners.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect, and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, in the penal amount of fifty (50) per cent of the ESTIMATED amount of the contract.

Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therein; and if no other person be so interested, it shall distinctly state that fact; also that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud; and that no member of the Common Council, Head of a Department, Chief of a Bureau, Deputy thereof, or Clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the VERIFICATION be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as his sureties for its faithful performance; and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety or otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by section 12 of chapter 7 of the Revised Ordinances of the City of New York, if the contract shall be awarded to the person or persons for whom he consents to become surety. The adequacy and sufficiency of the security offered to be approved by the Comptroller of the City of New York.

No bid or estimate will be considered unless accompanied by either a certified check upon one of the State or National banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must NOT be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such

deposits, except that of the successful bidder, will be returned to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it and as in default to the Corporation, and the contract will be readvertised and relet as provided by law.

The quality of the articles, supplies, goods, wares, and merchandise must conform in every respect to the samples of the same on exhibition at the office of the said Department. Bidders are cautioned to examine the specifications for particulars of the articles, etc., required, before making their estimates.

Bidders will state the price for each article, by which the bids will be tested.

Bidders will write out the amount of their estimate in addition to inserting the same in figures.

Payment will be made by a requisition on the Comptroller, in accordance with the terms of the contract, or from time to time, as the Commissioners may determine. The form of the contract, including specifications, and showing the manner of payment, will be furnished at the office of the Department; and bidders are cautioned to examine each and all of its provisions carefully, as the Board of Public Charities and Correction will insist upon its absolute enforcement in every particular.

Dated NEW YORK, May 20, 1890.
HENRY H. PORTER, President,
CHAS. E. SIMMONS, M. D.,
EDWARD C. SHEEHY,
Commissioners of Public Charities and Correction.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,
No. 66 THIRD AVENUE,
NEW YORK, May 27, 1890.

IN ACCORDANCE WITH AN ORDINANCE OF the Common Council, "In relation to the burial of strangers or unknown persons who may die in any of the public institutions of the City of New York," the Commissioners of Public Charities and Correction report as follows:

At Morgue, Bellevue Hospital, from foot of Market street—Unknown woman, aged about 65 years; 5 feet 2 inches high; gray hair. Had on black cashmere waist and skirt, red and white striped petticoat, red flannel petticoat, white flannel petticoat, brown woolen stockings, laced shoes, black bonnet, gray woolen shawl.

Unknown man, from Pier 11, North river, aged about 50 years; 5 feet 7 inches high; gray hair and moustache. Had on blue flannel coat and vest, black pants, white shirt, red flannel undershirt and drawers, white socks, gaiters.

Unknown man, from foot of Twenty-eighth street, East river, 5 feet 11 inches high. Had on brown overcoat, black coat, vest and pants, brown woolen shirt, gray and white striped shirt, red and brown woolen drawers, brown socks, boots; body about four months in water.

At Penitentiary—Valentine Eder, aged 44 years; 5 feet 3 inches high; brown hair and eyes. Had on when received black coat and vest, brown striped pants, brown striped shirt, white undershirt and drawers, gaiters, derby hat.

Bernard Devlin, aged 62 years; 5 feet 3 inches high; gray hair, blue eyes. Had on when received brown overcoat, black coat, brown pants, brown striped vest, blue shirt, gray undershirt, brogan shoes, derby hat.

At Homeopathic Hospital, Ward's Island—Joseph Dicalo, aged 45 years; 5 feet 4 inches high; black hair and eyes. Had on when admitted black coat, brown vest, gray pants, laced shoes, brown felt hat.

Charles Ebbert, aged 58 years; 6 feet high; gray hair and eyes. Had on when admitted brown tweed coat, dark mixed tweed vest, brown pants, laced shoes, black derby hat.

John Murphy, aged 37 years; 5 feet 6 inches high; brown hair and eyes. Had on when admitted black coat, gray striped vest and pants, rubber overshoes, black derby hat.

Nothing known of their friends or relatives.

By order,
G. F. BRITTON, Secretary.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,
No. 66 THIRD AVENUE,
NEW YORK, May 21, 1890.

IN ACCORDANCE WITH AN ORDINANCE OF the Common Council, "In relation to the burial of strangers or unknown persons who may die in any of the public institutions of the City of New York," the Commissioners of Public Charities and Correction report as follows:

At Morgue, Bellevue Hospital—From Pier 23, North river, unknown man, aged about 35 years; 5 feet 9 inches high; light brown hair, sandy moustache. Had on brown sack coat, brown and gray striped pants, blue cotton shirt, blue flannel shirt and drawers, white cotton socks, buttoned gaiters.

Unknown man, from foot of Thirty-seventh street, East river, aged about 35 years; 5 feet 7 inches high; dark brown hair, blonde moustache. Had on brown overcoat, black vest, brown pants, gray overalls, gray shirt, white socks, gaiters.

At Penitentiary—John Reilly, aged 54 years; 5 feet 4 1/2 inches high; dark hair, gray eyes. Had on when received dark overcoat, dark striped pants, white shirt, white undershirt and drawers, brogan shoes, derby hat.

At Workhouse—James Gaffney, aged 48 years. Had on when admitted blue coat, vest and pants, colored shirt, knit undershirt and drawers, brown hat.

At Homeopathic Hospital—Lewis Warner, aged 67 years; 5 feet 6 inches high; brown eyes, gray hair. Had on when admitted gray overcoat, blue vest, gray pants, laced shoes, black derby hat.

Nothing known of their friends or relatives.

By order,
G. F. BRITTON,
Secretary.

CIVIL SERVICE SUPERVISORY AND EXAMINING BOARDS.

NEW YORK CITY CIVIL SERVICE BOARDS,
COOPER UNION,
NEW YORK, May 29, 1890.

PUBLIC NOTICE IS HEREBY GIVEN THAT open competitive examinations will be held at the rooms of the Civil Service Boards, Cooper Union, for the positions and the dates below specified:

MILK INSPECTOR, Board of Health, Friday, June 6.

STEAM ENGINEER, Tuesday, June 10.

Application blanks may be obtained at the office of the Secretary, Room 30, Cooper Union.

LEE PHILLIPS,
Secretary and Executive Officer.

NEW YORK CITY CIVIL SERVICE BOARDS,
COOPER UNION,
NEW YORK, July 20, 1890.

NOTICE.

1. Office hours from 9 A. M. until 4 P. M.
2. Blank applications for positions in the classified service of the city may be procured upon application at the above office.
3. Examinations will be held from time to time to the needs of the several Departments of the City Government may require. When examinations are called, all persons

who have filed applications prior to that date will be notified to appear for examination for the position specified.

4. All information in relation to the Municipal Civil Service will be given upon application either in person or by letter. Those asking for information by mail should inclose stamp for reply.

5. The classification by schedule of city employees is as follows:

Schedule A shall include all deputies of officers and commissioners duly authorized to act for their principals, and all persons necessarily occupying a strictly confidential position.

Schedule B shall include clerks, copyists, recorders, bookkeepers and others rendering clerical services, except type-writers and stenographers.

Schedule C shall include Policemen, both in the Police Department and Department of Parks, and the uniformed force in the Fire Department, and Doormen in the Police Department.

Schedule D shall include all persons for whose duty special expert knowledge is required not included in Schedule E.

Schedule F shall include physicians, chemists, nurses, orderlies and attendants in the city hospitals and asylums, surgeons in the Police Department and the Department of Public Parks, and medical officers in the Fire Department.

Schedule G shall include stenographers, type-writers and all persons not included in the foregoing schedules, except laborers or day workmen.

Schedule H shall include all persons employed as laborers or day workmen.

Positions falling within Schedules A and G are exempt from Civil Service examination.

LEE PHILLIPS,
Secretary and Executive Officer.

THE COLLEGE OF THE CITY OF NEW YORK.

A SPECIAL MEETING OF THE BOARD OF Trustees of the College of the City of New York will be held at the Hall of the Board of Education, No. 146 Grand street, on Wednesday, June 4, 1890, at 3.30 o'clock P. M., for the transaction of such business as may be brought before it.

By order,
J. EDWARD SIMMONS,
Chairman.

ARTHUR McMULLIN,
Secretary.
Dated NEW YORK, May 28, 1890.

DEPARTMENT OF STREET CLEANING.

NOTICE.

PERSONS HAVING BULKHEADS TO FILL, IN the vicinity of New York Bay, can procure material for that purpose—ashes, street sweepings, etc., such as is collected by the Department of Street Cleaning—free of charge, by applying to the Commissioner of Street Cleaning, in the Stewart Building.

HANS S. BEATTIE,
Commissioner of Street Cleaning

CORPORATION NOTICE.

PUBLIC NOTICE IS HEREBY GIVEN TO THE owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the office of the Board of Assessors for examination by all persons interested, viz.:

List 3261, No. 1. Sewer in One Hundred and Fortieth street, between Boulevard and Hamilton place.

List 3262, No. 2. Sewer in One Hundred and Fifty-fourth street, between Tenth avenue and summit east of Tenth avenue.

List 3263, No. 3. Sewer in One Hundred and Twenty-fifth street, between Manhattan street and Tenth avenue.

List 3264, No. 4. Sewer in One Hundred and Thirty-second street, between Broadway and Tenth avenue.

List 3265, No. 5. Extension of sewer in Grove street, between West Fourth and Bleeker streets.

List 3266, No. 6. Curbing and recurbings, flagging and reflagging both sides of Eighty-eighth street, from Madison to Park avenue.

List 3267, No. 7. Receiving-basins on the southeast and southwest corners of One Hundred and Forty-sixth street and Eighth avenue.

List 3268, No. 8. Receiving-basin on the northwest corner of One Hundred and Twenty-sixth street and Lexington avenue.

List 3269, No. 9. Receiving-basin on the northeast corner of One Hundred and Sixth street and Madison avenue.

List 3270, No. 10. Fencing the vacant lots on the north side of Fortieth street, between First and Second avenues.

List 3271, No. 11. Fencing the vacant lots on the block bounded by Eighty-eighth and Eighty-ninth streets, First and Second avenues.

List 3272, No. 12. Fencing the vacant lots on the west side of the Boulevard, from Seventy-third to Seventy-fourth street; on the north side of Seventy-third and south side of Seventy-fourth streets, from Boulevard to West End avenue.

List 3273, No. 13. Fencing the vacant lots on the south side of One Hundred and Tenth street, between Madison and Fourth avenues.

List 3274, No. 14. Fencing the vacant lots on Lexington avenue and Seventy-second street, being about 100 feet on the avenue and 150 feet on the street, comprising the northwest corner of said Lexington avenue and Seventy-second street.

List 3275, No. 15. Fencing the vacant lot No. 1078 Madison avenue.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of One Hundred and Fortieth street, from the Boulevard to Hamilton place.

No. 2. Both sides of One Hundred and Fifty-fourth street, from Tenth avenue to a point distant about 321 feet easterly.

No. 3. Both sides of One Hundred and Twenty-fifth street, from Manhattan street to Tenth avenue.

No. 4. Both sides of One Hundred and Thirty-second street, from Broadway to Tenth avenue.

No. 5. Both sides of Grove street, between West Fourth and Bleeker streets, upon lots known as Ward Nos. 2314, 2315, 2316, 2326, 2327 and 2353.

No. 6. Both sides of Eighty-eighth street, from Park to Madison avenue, extending on the north side of Eighty-eighth street about 165 feet easterly from Madison avenue, and south side of Eighty-eighth street, about 252 feet easterly from Madison avenue.

No. 7. Blocks bounded by One Hundred and Forty-fifth and One Hundred and Forty-sixth streets, Bradhurst and Seventh avenues, excepting the north side of One Hundred and Forty-fifth street, from Bradhurst to Seventh avenue.

No. 8. North side of One Hundred and Twenty-sixth street, from Lexington to Fourth avenues.

No. 9. East side of Madison avenue, extending, northerly from One Hundred and Sixth street, about 101 feet.

No. 10. North side of Fortieth street, between First and Second avenues, upon lot known as Ward No. 13, Block 156.

No. 11. South side of Eighty-ninth street, between First and Second avenues, on Block 204, Ward Nos. 42 and 43.

No. 12. West side of Boulevard, from Seventy-third to Seventy-fourth street, north side of Seventy-third street, extending westerly from Boulevard about 250 feet and south side of Seventy-fourth street, extending westerly from Boulevard, about 162 feet.

No. 13. South side of One Hundred and Tenth street, between Fourth and Madison avenues, upon lots known as Block 404, Ward Nos. 44, 44 1/2, 45, 47, 48 and 49.

No. 14. West side of Lexington avenue, extending northerly from Seventy-second street, about 102 feet and north side of Seventy-second street, extending westerly from Lexington avenue, about 155 feet.

No. 15. West side of Madison avenue, between Eighty-first and Eighty-second streets, upon lot known as Ward No. 16, Block 466.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Chairman of the Board of Assessors, at their office, No. 27 Chambers street, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 30th day of June, 1890.

EDWARD GILON, Chairman,
PATRICK M. HAVERTY,
CHAS. E. WENDT,
EDWARD CAHILL,
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,
No. 27 CHAMBERS STREET,
NEW YORK, May 29, 1890.

PUBLIC NOTICE IS HEREBY GIVEN TO THE owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the office of the Board of Assessors for examination by all persons interested, viz.:

List 3130, No. 1. Paving with macadam pavement St. Nicholas avenue, from One Hundred and Fifty-fifth street to its intersection with Tenth avenue, and Kingsbridge road, from its intersection with Tenth avenue to One Hundred and Ninetieth street; and laying crosswalks.

List 3244, No. 2. Paving One Hundred and Thirty-eighth street, from the easterly side of Third avenue to the westerly side of St. Ann's avenue, with granite blocks.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of St. Nicholas avenue and Kingsbridge road, from One Hundred and Fifty-fifth street to One Hundred and Ninetieth street, and to the extent of half the block at the intersecting streets and avenues.

No. 2. Both sides of One Hundred and Thirty-eighth street, from Third to St. Ann's avenue, and to the extent of half the block at the intersecting avenues.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Chairman of the Board of Assessors, at their office, No. 27 Chambers street, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments, for confirmation on the 30th day of June, 1890.

EDWARD GILON, Chairman,
PATRICK M. HAVERTY,
CHARLES E. WENDT,
EDWARD CAHILL,
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,
No. 27 CHAMBERS STREET,
NEW YORK, May 28, 1890.

PUBLIC NOTICE IS HEREBY GIVEN TO THE owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the office of the Board of Assessors for examination by all persons interested, viz.:

List 3097, No. 1. Regulating, grading, curbing and flagging Eighty-seventh street, from West End avenue to Riverside Drive.

List 3176, No. 2. Regulating, grading, curbing and flagging One Hundred and Thirty-first street, from Boulevard to Twelfth avenue.

List 3249, No. 3. Paving One Hundred and Thirty-eighth street, from the westerly crosswalk of Third avenue to the westerly crosswalk of Rider avenue, with granite-blocks, and laying crosswalks.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of Eighty-seventh street, from West End avenue to Riverside Drive.

No. 2. Both sides of One Hundred and Thirty-first street, from the Boulevard to Twelfth avenue.

No. 3. Both sides of One Hundred and Thirty-eighth street, from Third avenue to the westerly side of Rider avenue, and to the extent of half the block at the intersecting avenues, which includes the westerly side of Rider avenue, from a point distant about 414 feet south of One Hundred and Thirty-eighth street to a point distant about 804 feet north of One Hundred and Thirty-eighth street.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Chairman of the Board of Assessors, at their office, No. 27 Chambers street, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 25th day of June, 1890.

EDWARD GILON, Chairman,
PATRICK M. HAVERTY,
CHAS. E. WENDT,
EDWARD CAHILL,
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,
No. 27 CHAMBERS STREET,
NEW YORK, May 24, 1890.

DEPARTMENT OF DOCKS.

DEPARTMENT OF DOCKS,
PIER "A," NORTH RIVER.

TO CONTRACTORS.

(No. 334.)

PROPOSALS FOR ESTIMATES FOR REPAIRING THE CRIB-BULKHEAD BETWEEN PIER, OLD 56, AT THE FOOT OF GANSEVOORT STREET, AND PIER, OLD 57, SOUTHERLY OF BLOOMFIELD STREET, ON THE NORTH RIVER, AND FOR REPAIRING THE CRIB-BULKHEAD FROM THE NORTHERLY SIDE OF PIER, OLD 58, NORTHERLY OF BLOOMFIELD STREET, TO A POINT ABOUT THIRTY-FIVE FEET SOUTHERLY OF THE SOUTH SIDE OF THE PIER AT LITTLE WEST TWELFTH STREET, ON THE NORTH RIVER.

ESTIMATES FOR REPAIRING THE CRIB-bulkhead between Pier, old 56, at the foot of Gansevoort street, and Pier, old 57, southerly of Bloomfield street, on the North river, and for repairing the crib-bulkhead from the northerly side of Pier, old 58, northerly of Bloomfield street, to a point about thirty-five feet southerly of the south side of the Pier at Little West Twelfth street, on the North river, will be received by the Board of Commissioners at the head of the Department of Docks, at the office of said Department, on Pier "A," foot of Battery place, North river, in the City of New York, until 1 o'clock P. M. of

WEDNESDAY, JUNE 11, 1890,
at which time and place the estimates will be publicly opened by the head of said Department. The award of the contract, if awarded, will be made as soon as practicable after the opening of the bids.

Any person making an estimate for the work shall furnish the same in a sealed envelope to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation, and a statement of the work to which it relates.

The bidder to whom the award is made shall give security for the faithful performance of the contract, in the manner prescribed and required by ordinance, in the sum of Two Thousand Two Hundred Dollars.

The Engineer's estimate of the nature, quantities and extent of the work is as follows:

CLASS I.—REPAIRS TO BULKHEAD BETWEEN PIERS, OLD 56 AND 57.

1. New cribwork complete, including all timbers and iron-work, backing-logs, earth and stone-filling, box-drains, mooring-posts, fenders, etc., measured from the top of the old facing timbers left in place to the under side of the backing-log, and from front of facing timber to rear of cross-ties, about.....	28,499 cubic feet.
	Feet, B. M., measured in the work.
2. Yellow Pine Timber, 12" x 12".....	972
" " 8" x 12".....	120
" " 6" x 12".....	984
" " 6" x 6".....	96
Total.....	2,172

NOTE.—The above quantity of timber is inclusive of extra lengths required for scarfs, laps, etc., but is exclusive of waste, and does not include the yellow pine in the cribwork estimated above in item No. 1.

3. Excavation of old cribwork, etc., about.....	1,421 cubic yards.
4. $\frac{3}{8}$ " x 22", $\frac{3}{4}$ " x 20", and $\frac{1}{2}$ " x 10" Square Wrought-iron Dock Spikes, about.....	113 pounds.
NOTE.—The above quantity of dock spikes is exclusive of the dock spikes in the cribwork estimated above in item No. 1.	
5. Back-filling and grading, about.....	366 cubic yards.
6. Top dressing, about.....	155 "
7. Labor of framing and carpentry, including all moving of timber, jointing, planing, spiking, back-filling, etc., as set forth in the specifications.	

CLASS II.—REPAIRS TO BULKHEAD BETWEEN PIER, OLD 58, AND LITTLE WEST TWELFTH STREET.

1. New cribwork complete, including all timbers and ironwork, backing-logs, earth and stone-filling, box-drains, mooring-posts, fenders, etc., measured from the top of the old facing timbers left in place to the under side of the backing-log, and from front of facing timber to rear of cross-ties, about.....	23,491 cubic feet.
	Feet, B. M., measured in the work.
2. Yellow Pine Timber, 12" x 12".....	624
" " 6" x 12".....	444
" " 6" x 6".....	45
Total.....	1,113

NOTE.—The above quantity of timber is inclusive of extra lengths required for scarfs, laps, etc., but is exclusive of waste, and does not include the yellow pine in the cribwork estimated above in item No. 1.

3. Excavation of old cribwork, etc., about.....	1,157 cubic yards.
4. $\frac{3}{8}$ " x 22", $\frac{3}{4}$ " x 20", and $\frac{1}{2}$ " x 10" Square Wrought-iron Dock Spikes, about.....	54 pounds.
NOTE.—The above quantity of dock spikes is exclusive of the dock spikes in the cribwork estimated above in item No. 1.	
5. Back-filling and grading, about.....	287 cubic yards.
6. Top dressing, about.....	200 "
7. Labor of framing and carpentry, including all moving of timber, jointing, planing, spiking, back-filling, etc., as set forth in the specifications.	

N. B.—As the above-mentioned quantities, though stated with as much accuracy as possible, in advance, are approximate only, bidders are required to submit their estimates upon the following express conditions, which shall apply to and become a part of every estimate received:

1st. Bidders must satisfy themselves, by personal examination, of the location of the proposed work, and by such other means as they may prefer, as to the accuracy of the foregoing Engineer's estimate, and shall not, at any time after the submission of an estimate, dispute or complain of the above statement of quantities, nor assert that there was any misunderstanding in regard to the nature or amount of the work to be done.

2d. Bidders will be required to complete the entire work to the satisfaction of the Department of Docks, and in substantial accordance with the specifications of the contract and the plans therein referred to. No extra compensation, beyond the amount payable for the work before mentioned, which shall be actually performed, at the prices therefor, to be specified by the lowest bidder, shall be due or payable for the entire work.

The work to be done under this contract is to be commenced within five days after the date of the contract, and all the work contracted for is to be fully completed on or before the 20th day of September, 1890, and the damages to be paid by the Contractor for each day that the contract may be unfulfilled a ter the time fixed for the fulfillment thereof has expired, are, by a clause in the contract, determined, fixed and liquidated at Fifty Dollars per day.

All the old material taken from the old structures to be removed under the contract will be relinquished to the Contractor, and bidders must estimate the value of such material when considering the price for which they will do the work under the contract.

Bidders will state in their estimates a price for the whole of the work to be done in each class, in conformity with the approved form of agreement and the specifications therein set forth, by which price the bids will be tested. These prices are to cover all expenses of every kind involved in or incidental to the fulfillment of the contract, including any claim that may arise through delay, from any cause, in the performing of the work thereunder. The award of the contract, if awarded, will be made to the bidder who is the lowest for doing the whole of the work comprised in both classes, and whose estimate is regular in all respects.

Bidders will distinctly write out, both in words and in figures, the amount of their estimates for doing the work.

The person or persons to whom the contract may be awarded will be required to attend at this office with the sureties offered by him or them, and execute the contract within five days from the date of the service of a notice to that effect; and in case of failure or neglect so to do, he or they will be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and relet, and so on until it be accepted and executed.

Bidders are required to state in their estimates their names and places of residence, the names of all persons interested with them therein; and if no other person be so interested, the estimate shall distinctly state the fact; also, that the estimate is made without any connection with any other person making an estimate for the same work, and that it is in all respects fair, and without collusion or fraud; and also, that no member of the

Common Council, Head of a Department, Chief of a Bureau, Deputy thereof, or Clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof; which estimate must be verified by the oath, in writing, of the party making the estimate, that the several matters stated therein are in all respects true. *Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.*

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, upon its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which said person or persons would be entitled on its completion, and that which said Corporation may be obliged to pay to the person to whom the contract may be awarded at any subsequent letting; the amount, in each case, to be calculated upon the estimated amount of the work to be done, by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety and otherwise; and that he has offered himself as surety in good faith, and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered will be subject to approval by the Comptroller of the City of New York after the award is made and prior to the signing of the contract.

No estimate will be received or considered unless accompanied by either a certified check upon one of the State or National banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of five per centum of the amount of security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Bidders are informed that no deviation from the specifications will be allowed, unless under the written instructions of the Engineer-in-Chief.

No estimate will be accepted from or contract awarded to any person who is in arrears to the Corporation, upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

THE RIGHT TO DECLINE ALL THE ESTIMATES IS RESERVED, IF DEEMED FOR THE INTEREST OF THE CORPORATION OF THE CITY OF NEW YORK.

Bidders are requested, in making their bids or estimates, to use the blank prepared for that purpose by the Department, a copy of which, together with the form of the agreement, including specifications, and showing the manner of payment for the work, can be obtained upon application therefor at the office of the Department.

EDWIN A. POST,
JAMES MATTHEWS,
J. SERGEANT CRAM,

Commissioners of the Department of Docks.
Dated New York, May 27, 1890.

DEPARTMENT OF DOCKS,
PIER "A," NORTH RIVER.

TO CONTRACTORS.

(No. 335.)

PROPOSALS FOR ESTIMATES FOR DREDGING AT WEST THIRTY-FOURTH STREET PIER, ON THE NORTH RIVER.

ESTIMATES FOR DREDGING AT WEST Thirty-fourth Street Pier, on the North river, will be received by the Board of Commissioners at the head of the Department of Docks, at the office of said Department, on Pier "A," foot of Battery place, North river, in the City of New York, until 12 o'clock M. of

WEDNESDAY, JUNE 11, 1890,

at which time and place the estimates will be publicly opened by the head of said Department. The award of the contract, if awarded, will be made as soon as practicable after the opening of the bids.

Any person making an estimate for the work shall furnish the same in a sealed envelope to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation, and a statement of the work to which it relates.

The bidder to whom the award is made shall give security for the faithful performance of the contract, in the manner prescribed and required by ordinance, in the sum of Three Thousand Five Hundred Dollars.

The Engineer's estimate of the quantities of material necessary to be dredged in order to secure at the premises mentioned the depth of water set opposite thereto in the specifications, is as follows:

For the half slips adjoining Pier at West Thirty-fourth street, North river..... 62,500 cubic yards.

Total..... 62,500 "

N. B.—Bidders are required to submit their estimates upon the following express conditions, which shall apply to and become a part of every estimate received:

(1.) Bidders must satisfy themselves, by personal examination of the location of the proposed dredging, and by such other means as they may prefer, as to the accuracy of the foregoing Engineer's estimate, and shall not, at any time after the submission of an estimate, dispute or complain of the above statement of quantities, nor assert that there was any misunderstanding in regard to the nature or amount of the work to be done.

(2.) Bidders will be required to complete the entire work, to the satisfaction of the Department of Docks, and in substantial accordance with the specifications of the contract. No extra compensation, beyond the amount payable for the work before mentioned, which shall be actually performed, at the price therefor per cubic yard, to be specified by the lowest bidder, shall be due or payable for the entire work.

The work to be done under the contract is to be commenced within five days after the date of the contract, and the entire work is to be fully completed on or before the 20th day of August, 1890, and the damages to be paid by the contractor for each day that the contract may be unfulfilled after the time fixed for the fulfillment has expired, are, by a clause in the contract, fixed and liquidated at Fifty Dollars per day.

Bidders will state in their estimates a price per cubic yard for doing such dredging in conformity with the approved form of agreement and the specifications therein set forth, by which price the bids will be tested. This price is to cover all expenses of every kind

involved in or incidental to the fulfillment of the contract, including any claim that may arise through delay, from any cause, in the performing of the work thereunder.

Bidders will distinctly write out, both in words and in figures, the amount of their estimates for doing this work.

The person or persons to whom the contract may be awarded will be required to attend at this office with the sureties offered by him or them, and execute the contract within five days from the date of the service of a notice to that effect; and in case of failure or neglect so to do, he or they will be considered as having abandoned it, and as in default to the Corporation; and the contract will be readvertised and relet, and so on until it be accepted and executed.

Bidders are required to state in their estimates their names and places of residence, the names of all persons interested with them therein; and if no other person be so interested, the estimate shall distinctly state the fact; also, that the estimate is made without any connection with any other person making an estimate for the same work, and that it is in all respects fair and without collusion or fraud; and also, that no member of the Common Council, head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof; which estimate must be verified by the oath, in writing, of the party making the estimate, that the several matters stated therein are in all respects true. *Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.*

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, upon its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which said person or persons would be entitled upon its completion, and that which said Corporation may be obliged to pay to the person to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work to be done by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety and otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered will be subject to approval by the Comptroller of the City of New York, after the award is made and prior to the signing of the contract.

No estimate will be received or considered unless accompanied by either a certified check upon one of the State or National banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of five per centum of the amount of security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Bidders are informed that no deviation from the specifications will be allowed, unless under the written instructions of the Engineer-in-Chief.

No estimate will be accepted from or contract awarded to any person who is in arrears to the Corporation, upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

THE RIGHT TO DECLINE ALL THE ESTIMATES IS RESERVED, IF DEEMED FOR THE INTEREST OF THE CORPORATION OF THE CITY OF NEW YORK.

Bidders are requested, in making their bids or estimates, to use the blank prepared for that purpose by the Department, a copy of which, together with the form of the agreement, including specifications, and showing the manner of payment for the work, can be obtained upon application therefor at the office of the Department.

EDWIN A. POST,
JAMES MATTHEWS,
J. SERGEANT CRAM,
Commissioners of the Department of Docks.
Dated New York, May 27, 1890.

(Work of Construction under New Plan.)

DEPARTMENT OF DOCKS,
PIER "A," NORTH RIVER.

TO CONTRACTORS.

(No. 333.)

PROPOSALS FOR ESTIMATES FOR PREPARING FOR AND BUILDING A NEW WOODEN PIER, WITH APPURTENANCES, INCLUDING A SEWER-BOX, AT THE FOOT OF EAST NINETY-FIFTH STREET, EAST RIVER.

ESTIMATES FOR PREPARING FOR AND Building a New Wooden Pier, with Appurtenances, including a Sewer-box, at the foot of East Ninety-fifth street, East River, will be received by the Board of Commissioners at the head of the Department of Docks, at the office of said Department, Pier "A," foot of Battery place, North river, in the City of New York, until 12 o'clock M. of

FRIDAY, JUNE 6, 1890,

at which time and place the estimates will be publicly opened by the head of said Department. The award of the contract, if awarded, will be made as soon as practicable after the opening of the bids.

Any person making an estimate for the work shall furnish the same in a sealed envelope to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation, and a statement of the work to which it relates.

The bidder to whom the award is made shall give security for the faithful performance of the contract in the manner prescribed and required by ordinance, in the sum of Four Thousand Dollars.

The Engineer's estimate of the nature, quantities and extent of the work is as follows:

CLASS I.		Feet, B. M., measured in the work.
1. Yellow Pine Timber, 12" x 14".....	6,606	
" " 12" x 12".....	61,895	
" " 11" x 12".....	169	
" " 10" x 12".....	1,753	
" " 8" x 10".....	334	
" " 8" x 15".....	1,160	

Yellow Pine Timber 8" x 12".....	3,371
" " 8" x 8".....	2,971
" " 7" x 14".....	490
" " 7" x 12".....	1,218
" " 7" x 9".....	55
" " 10" x 10".....	480
" " 6" x 12".....	2,952
" " 6" x 6".....	173
" " 5" x 12".....	3,162
" " 5" x 11".....	5,145
" " 4" x 12".....	189
" " 3" x 12".....	36
" " 5" x 10".....	11,970
" " 4" x 10".....	3,913
" " 2" x 4".....	1,808

Total..... 109,855

Feet, B. M., measured in the work.

2. Spruce Timber, 4" x 10".....	40,476
3. White Oak Timber, 8" x 12".....	2,688

NOTE.—The above quantities of timber, in items 1, 2 and 3, are inclusive of extra lengths required for scarfs, laps, etc., but are exclusive of waste.

4. White Pine, Yellow Pine or Cypress Piles for Pier..... 260

(It is expected that about 223 of these piles will have to be from about 60 feet in length to about 70 feet in length, and the remainder to average about 80 feet in length, to meet the requirements of the specifications for driving.)

for the specifications for driving.	
5. White Oak Fender Piles, about 60 to about 70 feet long.....	10
6. $\frac{3}{8}$ " x 28", $\frac{3}{8}$ " x 26", $\frac{3}{8}$ " x 22", $\frac{3}{8}$ " x 16", $\frac{3}{8}$ " x 14", $\frac{3}{8}$ " x 12", $\frac{3}{8}$ " x 22", $\frac{3}{8}$ " x 20", $\frac{3}{8}$ " x 18", $\frac{3}{8}$ " x 16", $\frac{3}{8}$ " x 14", $\frac{3}{8}$ " x 12", $\frac{3}{8}$ " x 9", $\frac{3}{8}$ " x 14", $\frac{3}{8}$ " x 7", $\frac{3}{8}$ " x 6", $\frac{3}{8}$ " x 10", $\frac{3}{8}$ " x 7", $\frac{3}{8}$ " x 6", square, and $\frac{3}{8}$ " x 8 $\frac{1}{2}$ ", $\frac{3}{8}$ " x 8", and $\frac{3}{8}$ " x 8" round, wrought- spike-pointed Dock-spikes, and 4pd. Nails, about	14,049 pounds.
7. Boiler-plate Armatures, Wrought- iron Straps and Strap-bolts and Washers, about	8,866 "
8. 2", $1\frac{1}{2}$ ", $1\frac{1}{4}$ ", $1\frac{1}{8}$ " and 1" Wrought- iron Screw-bolts and Nuts, about	6,750 "
9. Cast-iron Washers for $1\frac{1}{2}$ ", $1\frac{1}{8}$ " and 1" Screw-bolts, about	3,017 "
10. Cast-iron Pile Shoes, about	4,158 "
1. Cast-iron Mooring-posts, about	8,100 "
2. Materials for Painting and Oiling or Tarring, Labor of every description for about 10,080 square feet of new Pier.	

nection with any other person making an estimate for the same work, and that it is in all respects fair, and without collusion or fraud; and also that no member of the Common Council, Head of a Department, Chief of a Bureau, Deputy thereof, or Clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof; which estimate must be verified by the oath, in writing, of the party making the estimate, that the several matters stated therein are in all respects true. *Where more than one person is interested, it is requisite that the verification be made and subscribed to by all the parties interested.*

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, on its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which said person or persons would be entitled on its completion, and that which said Corporation may be obliged to pay to the person to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work to be done by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety and otherwise; and that he has offered himself as surety in good faith, and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered will be subject to approval by the Comptroller of the City of New York after the award is made and prior to the signing of the contract.

No estimate will be received or considered unless accompanied by either a certified check upon one of the State or National Banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of five per centum of the amount of security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Bidders are informed that no deviation from the specifications will be allowed unless under the written instructions of the Engineer-in-Chief.

No estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

THE RIGHT TO DECLINE ALL THE ESTIMATES IS RESERVED, IF DEEMED FOR THE INTEREST OF THE CORPORATION OF THE CITY OF NEW YORK.

Bidders are requested, in making their bids or estimates, to use the blank prepared for that purpose by the Department, a copy of which, together with the form of the agreement, including specifications, and showing the manner of payment for the work, can be obtained upon application therefor at the office of the Department.

EDWIN A. POST,
JAMES MATTHEWS,
J. SERGEANT CRAM,
Commissioners of the Department of Docks.
Dated New York, May 23, 1890.

DEPARTMENT OF DOCKS,
PIER "A," BATTERY PLACE, NORTH RIVER,
NEW YORK, May 23, 1890.

VAN TASSELL & KEARNEY, AUCTIONEERS,
will sell at public auction in the Board Room,
Pier "A," Battery place, in the City of New York, on

WEDNESDAY, JUNE 11, 1890,

at 12 o'clock noon, for and on account of the Department of Docks, the right to dump and fill in behind the new bulkhead or river wall on the Laight Street Section, between Laight and Vestry streets, N. R., when built. The right or privilege to fill in the said premises will be sold to the highest bidder, and the price for such right or privilege must be paid at the time of sale. The material to be dumped or filled in must be composed of clean ashes, sand, loam, earth, etc., or of stone; if of stone, no piece of stone must be greater than 16 inches in its largest dimensions, and all material must be dumped and filled in only at such times and places and in such manner as shall be directed by the Engineer-in-Chief of the Department of Docks, or such other officer or employee of the Department of Docks as may be designated by him, and all the work of dumping and filling-in must be done under the direction of the Engineer-in-Chief or designated employee.

The estimated quantity to be filled in at the said premises is about 20,000 loads, more or less, but this quantity is approximate only, and the Department is not bound in any way by such estimate, and bidders must satisfy themselves of the quantities required to fill in at the place named by examination of the premises, or such other means as they may prefer, the intention of the Department being to fill in the whole of the said premises behind the bulkhead or river wall when it is built and ready to have filling put in behind it.

In case the party who is the highest bidder does not proceed with the work of filling-in to the satisfaction of the Board of Docks, the said Board will at once proceed to have the filling-in done by other parties in such way and manner as it deems proper.

The Auctioneer's fees (\$25) for filling-in on the said sections must be paid by the highest bidder thereon at time of sale.

Dated, New York, May 23, 1890.
EDWIN A. POST,
JAMES MATTHEWS,
J. SERGEANT CRAM,
Commissioners of the Department of Docks.

DEPARTMENT OF DOCKS,
PIER "A," NORTH RIVER, }

TO CONTRACTORS.

(No. 332.)

PROPOSALS FOR ESTIMATES FOR REMOVING CERTAIN PORTIONS OF, AND FOR REPAIRING, THE OUTER 140 FEET OF THE OLD WOODEN PIER, AND FOR BUILDING COMPLETE THE INNER LENGTH OF THE PIER AT THE FOOT OF EAST TWENTY-FOURTH STREET, EAST RIVER.

ESTIMATES FOR REMOVING CERTAIN portions of, and for repairing, the outer 140 feet of the Old Wooden Pier, and for building complete the inner length of the Pier at the foot of East Twenty-fourth street, East river, will be received by the Board of Commissioners at the head of the Department of Docks, at the office of said Department, Pier "A," foot of Battery place, North river, in the City of New York, until 12 o'clock M. of

FRIDAY, JUNE 6, 1890.

at which time and place the estimates will be publicly opened by the head of said Department. The award of the contract, if awarded, will be made as soon as practicable after the opening of the bids.

Any person making an estimate for the work shall furnish the same in a sealed envelope to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation, and a statement of the work to which it relates.

The bidder to whom the award is made shall give security for the faithful performance of the contract, in the manner prescribed and required by ordinance, in the sum of Three Thousand Five Hundred and Twenty Dollars.

The Engineer's estimate of the nature, quantities and extent of the work is as follows:

	Feet, B. M., measured in the work.
1. Yellow Pine Timber, 12" x 14".....	735
" " " " 12" x 12".....	85,306
" " " " 10" x 12".....	1,843
" " " " 9" x 9".....	61
" " " " 8" x 12".....	1,085
" " " " 8" x 10".....	628
" " " " 8" x 8".....	5,971
" " " " 6" x 12".....	5,870
" " " " 6" x 11".....	2,655
" " " " 7" x 9".....	16
" " " " 5" x 12".....	602
" " " " 5" x 11".....	1,103
" " " " 5" x 10".....	13,256
" " " " 5" x 8".....	38
" " " " 4" x 12".....	240
" " " " 4" x 10".....	52,914
" " " " 2" x 4".....	960

Total..... 174,183

	Feet, B. M., measured in the work.
2. Spruce Timber 4" Plank.....	61,923

	Feet, B. M., measured in the work.
3. White Oak Timber, 8" x 12".....	5,824

NOTE.—The above quantities of timber, in items 1, 2 and 3, are inclusive of extra lengths required for scarfs, laps, etc., but are exclusive of waste.

4. White Pine, Yellow Pine, Norway Pine, or Cypress Piles..... 168

(It is expected that these piles will require to be from about 50 feet to about 55 feet in length.)

5. White Oak Fender Piles, about 50 feet to about 55 feet long..... 8

6. $\frac{7}{8}$ " x 28", $\frac{7}{8}$ " x 26", $\frac{7}{8}$ " x 22", $\frac{7}{8}$ " x 14", $\frac{7}{8}$ " x 12", $\frac{3}{4}$ " x 22", $\frac{3}{4}$ " x 16", $\frac{3}{4}$ " x 14", $\frac{3}{4}$ " x 12", $\frac{1}{2}$ " x 12", $\frac{1}{2}$ " x 10", $\frac{1}{2}$ " x 7" square, and $\frac{5}{8}$ " x 8 $\frac{1}{2}$ ", $\frac{5}{8}$ " x 8", $\frac{1}{2}$ " x 8", $\frac{5}{8}$ " x 5 $\frac{1}{2}$ " and $\frac{5}{8}$ " x 5" round, Wrought-iron Dock Spikes and 40d Nails, about..... 14,833 pounds.

7. Boiler-plate Armatures, Wrought-iron Straps and Washers, about..... 2,623 "

8. $1\frac{1}{2}$ ", $1\frac{1}{4}$ ", $1\frac{1}{8}$ " and 1" Wrought-iron Screw-bolts, with their Nuts, about..... 6,294 "

9. Cast-iron Mooring-posts, about..... 6,300 pounds.

10. Cast-iron Washers for $1\frac{1}{4}$ ", $1\frac{1}{8}$ " and 1" Screw-bolts, about..... 2,990 "

11. Labor of removing all of the material in the outer 140 feet of the Old Wooden Pier, except the bearing piles, and of removing such material from the premises.

12. Labor of Framing and Carpentry, including all moving and rafting of Timber, Jointing, Planing, Bolting, Spiking, Stay-lathing, Painting, Oiling or Tarring, and furnishing the materials for Stay-lathing, Painting, Oiling or Tarring, and labor of every description, as set forth in the specifications, for an area of about 15,377 square feet of pier.

N. B.—As the above-mentioned quantities, though stated with as much accuracy as is possible, in advance, are approximate only, bidders are required to submit their estimates upon the following express conditions, which shall apply to and become a part of every estimate received:

(1.) Bidders must satisfy themselves, by personal examination of the location of the proposed work, and by such other means as they may prefer, as to the accuracy of the foregoing Engineer's estimate, and shall not, at any time after the submission of an estimate, dispute or complain of the above statement of quantities, nor assert that there was any misunderstanding in regard to the nature or amount of the work to be done.

(2.) Bidders will be required to complete the entire work to the satisfaction of the Department of Docks, and in substantial accordance with the specifications of the contract and the plans therein referred to. No extra compensation, beyond the amount payable for each class of the work before mentioned, which shall be actually performed, at the prices therefor, to be specified by the lowest bidder, shall be due or payable for the entire work.

The work to be done under this contract is to be commenced within five days after the date of the contract, and all work to be done under the contract (except about 118 feet of the shore end of the pier, which will not be constructed until the bulkhead-wall is constructed by the Department of Docks), is to be fully completed on or before the 15th day of October, 1890; and the said about 118 feet is to be completed within sixty days after notice shall be given to the Contractor by said Department of Docks that work on the said about 118 feet may be begun; and the damages to be paid by the Contractor for each day that the contract may be unfulfilled after the time fixed for the fulfillment thereof has expired, are, by a clause in the contract, determined, fixed and liquidated at Fifty Dollars per day.

All the old material taken from the said old pier at the foot of East Twenty-fourth street, to be removed under this contract, will be relinquished to the contractor, and bidders must estimate the value of such material when considering the price for which they will do the work under the contract.

Bidders will state in their estimates a price for the whole of the work to be done, in conformity with the approved form of contract and the specifications therein set forth, by which price the bids will be tested. This price is to cover all expenses of every kind involved in or incidental to the fulfillment of the contract, including any claim that may arise through delay, from any cause, in the performing of the work thereunder. The award of the contract, if awarded, will be made to the bidder who is the lowest for doing the whole of the work comprised in the two classes, and whose estimate is regular in all respects.

Bidders will distinctly write out, both in words and in figures, the amount of their estimates for doing the work.

The person or persons to whom the contract may be awarded will be required to attend at this office with the sureties offered by him or them, and execute the contract within five days from the date of the service of a notice to that effect; and in case of failure or neglect so to do, he or they will be considered as having abandoned it, and as in default to the Corporation; and the contract will be re-advertised and relet, and so on until it be accepted and executed.

Bidders are required to state in their estimates their names and places of residence; the names of all persons interested with them therein; and if no other person be so interested, the estimate shall distinctly state the fact; also, that the estimate is made without any connection with any other person making an estimate for the same work, and that it is in all respects fair, and without collusion or fraud; and also, that no member of the Common Council, head of a department, chief

of a bureau, deputy thereof, or clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof; which estimate must be verified by the oath, in writing, of the party making the estimate, that the several matters stated therein are in all respects true. *Where more than one person is interested, it is requisite that the verification be made and subscribed to by all the parties interested.*

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, upon its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which said person or persons would be entitled upon its completion and that which said Corporation may be obliged to pay to the person to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work to be done in each class by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety and otherwise; and that he has offered himself as surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered will be subject to approval by the Comptroller of the City of New York after the award is made and prior to the signing of the contract.

No estimate will be received or considered unless accompanied by either a certified check upon one of the State or National Banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of five per centum of the amount of security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Bidders are informed that no deviation from the specifications will be allowed, unless under the written instructions of the Engineer-in-Chief.

No estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation, upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The right to decline all the estimates is reserved, if deemed for the interest of the Corporation of the City of New York.

Bidders are requested, in making their bids or estimates, to use the blank prepared for that purpose by the Department, a copy of which, together with the form of the agreement, including specifications, and showing the manner of payment for the work, can be obtained upon application therefor at the office of the Department.

Dated NEW YORK, May 23, 1890.
EDWIN A. POST,
JAMES MATTHEWS,
J. SERGEANT CRAM,
Commissioners of the Department of Docks.

HARLEM RIVER BRIDGE COMMISSION.

CITY OF NEW YORK,
HARLEM RIVER BRIDGE COMMISSION. }

TO CONTRACTORS.

PROPOSALS FOR ESTIMATES FOR REGULATING, GRADING AND IMPROVING LANDS ADJACENT TO THE HARLEM RIVER BRIDGE, AND FOR REGULATING, GRADING, PAVING AND IMPROVING UNDERCLIFF PLACE AND A PORTION OF UNDERCLIFF AVENUE.

SEALED ESTIMATES FOR THE ABOVE work, indorsed with the above title, also with the name of the person or persons making the same, and the date of presentation, will be received at the office of the Harlem River Bridge Commission, No. 1 Broadway, New York City, until 2 o'clock P. M., on Wednesday, the 4th day of June, 1890, at which place and hour the bids will be publicly opened by the said Commission and read, and the award of the contract will be made as soon thereafter as practicable.

The person or persons to whom the contract may be awarded will be required to attend at the office of the said Commission, with the sureties offered by him or them, and execute the contract within five days after written notice that the same has been awarded to his or their bid or estimate, and that the sureties offered by him or them have been approved by the Comptroller; and in case of failure or neglect so to do, he or they will be considered as having abandoned it, and as in default to the Corporation, and thereupon the work will be relet. The work to be commenced at such time as the Harlem River Bridge Commission may determine.

N. B.—The prices must be written in the estimate, and also stated in figures, and all estimates will be considered as informal which do not contain bids for all items called for in these specifications, or which contain bids for items not called for therein. Permission will not be given for the withdrawal of any bid or estimate, and the right is expressly reserved by the Harlem River Bridge Commission to reject any or all estimates which it may deem prejudicial to the public interests. No estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

No estimate will be received or considered unless accompanied by either a certified check upon one of the National banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the Secretary of the Commission, and no estimate can be deposited until such check or money has been examined by said Secretary and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall neglect or refuse, within five days after notice that the contract has been awarded to him, and that the sureties offered by him have been approved by the Comptroller, to execute the same, the amount of the deposit made by him shall be forfeited and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Bidders are required to state in their estimates, under oath, their names and places of residence; the names of all persons interested with them therein, and if no other person be so interested, they shall distinctly state the fact; also, that such estimate is made without any con-

nection with any other person making a bid or estimate for the same purpose; and that it is in all respects fair, and without collusion or fraud; and also that no member of the Common Council, head of a department, chief of a bureau, deputy thereof or clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof.

The estimate must be verified by the oath, in writing, of the party making such estimate, that the several matters therein stated are in all respects true. When more than one person is interested in the estimate, the verification must be made by all the parties interested.

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as his sureties for its faithful performance; and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled on its completion, and that which the Corporation may be obliged to pay to the person to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract and stated in the proposals, over and above all his debts of every nature, and over and above his liabilities as bail, surety or otherwise; that he has offered himself as surety in good faith and with an intention to execute the bond required by law. The adequacy and sufficiency of the security offered will be determined by the Comptroller of the City of New York after the award is made and prior to the signing of the contract.

Bidders are required to state in writing, also in figures, a price for each of the items mentioned in the Engineer's estimate.

These prices are to cover the furnishing of all the necessary materials and labor, and the performance of all the work as set forth in the specification and form of agreement hereto annexed and the completion of the entire work.

The Engineer's estimate of the work to be done, and by which the bids will be tested, is as follows:

25,000 cubic yards excavation of earth.
3,500 cubic yards excavation of rock.
700 cubic yards dry rubble masonry.
200 cubic yards special retaining-wall.
350 cubic yards rock-faced masonry in bridge approaches and abutments.
780 cubic yards rubble masonry in cement.
50 cubic yards concrete.
1,640 cubic feet granite coping, platforms, posts, caps and steps in bridge approaches and boat landing.
130 cubic yards fine-cut granite masonry in boat landing.
600 cubic feet granite steps for walks.
600 lineal feet 12-inch vitrified pipe.
1,200 lineal feet 8-inch vitrified pipe.
1,600 lineal feet 6-inch vitrified pipe.
100 cubic yards brick masonry.
7,500 lineal feet, piles.
25,600 feet, board measure, spruce or pine plank or timber.
2,000 pounds cast iron.
300 pounds wrought iron.
23,500 square feet walks.
5,000 cubic yards rip-rap.
1,500 lineal feet blue-stone curb.
5,600 square feet blue-stone flagging.
600 square feet granite bridge-stone for cross-walks.
3,100 square yards granite-block pavement.
2 receiving-basins.

N. B.—As the above-mentioned quantities, though stated with as much accuracy as is possible in advance, are approximate only, bidders are required to submit their estimates upon the following express conditions, which shall apply to and become a part of every estimate received.

Bidders must satisfy themselves, by personal examination of the location of the proposed work, and by such other means as they may prefer, as to the accuracy of the foregoing Engineer's estimate, and shall not at any time after the submission of an estimate, dispute or complain of such statement or estimate, nor assert that there was any misunderstanding in regard to the nature or amount of work to be done.

The foregoing estimates being approximate only are not to be held as entitling the contractor to any claim for extra time in the completion of the work, nor to any claim for damages, if the quantity of work should prove to be greater or less than is here estimated, and the Harlem River Bridge Commission expressly reserves the right of increasing or diminishing the said quantities, as in its opinion become necessary.

Bidders will be required to complete the entire work to the satisfaction of the Harlem River Bridge Commission, and in substantial accordance with the specifications hereunto annexed and the plans therein referred to. No extra compensation beyond the amount payable for the several classes of work before enumerated which shall be actually performed, at the prices therefor to be specified by the lowest bidder, shall be due or payable for the entire work.

Bidders are particularly cautioned that a provision in the contract authorizes the sum of TWENTY-FIVE CENTS per lineal foot (measured on the centre line of the street) of the work done upon Undercliff place and upon Undercliff avenue under this agreement, to be retained out of the contract moneys as security for keeping the whole work, when completed, in good order for a period of six months from the date of its acceptance by the Harlem River Bridge Commission, not including in the computation of the said period the months of December, January, February and March.

The amount of security required is Twenty Thousand Dollars.

Bidders are informed that no deviation from the specifications will be allowed unless written permission shall previously have been obtained from the Harlem River Bridge Commission.

Bidders are specially notified that the Harlem River Bridge Commission reserves the right to determine the times and places for commencing and prosecuting the work, and that postponement or delay on the whole, or any part thereof, occasioned by the precedence of other contracts, cannot constitute a claim for damages.

Bidders are notified that the Harlem River Bridge Commission reserves the right to reject any or all bids. Blank forms of proposals can be obtained on application to the Secretary at this office.

JACOB LORILLARD,
VERNON H. BROWN,
DAVID JAMES KING,
Commissioners.

No. 1 BROADWAY, NEW YORK.

BOARD OF EDUCATION.

SEALED PROPOSALS WILL BE RECEIVED BY the Board of School Trustees for the Fourteenth Ward, at the Hall of the Board of Education, No. 146 Grand street, until 9.30 o'clock A. M. on Monday, June 16, 1890, for making Repairs, Alterations, etc., at Grammar School No. 21.

JOHN A. O'BRIEN, Chairman,
M. B. FEENEY, Secretary,
Board of School Trustees, Fourteenth Ward.

Sealed proposals will also be received at the same place, by the School Trustees of the Fifth Ward, until 3.30 o'clock P. M. on Monday, June 16, 1890, for making Repairs, Alterations, etc., at Grammar School No. 44.

SAMUEL W. WILEY, Chairman,
HENRY C. WEST, Secretary,
Board of School Trustees, Fifth Ward.

Plans and specifications may be seen, and blank proposals obtained, at the office of the Superintendent of School Buildings, No. 146 Grand street, third floor.

The Trustees reserve the right to reject any or all of the proposals submitted.

The party submitting a proposal and the parties proposing to become sureties, must each write his name and place of residence on said proposal.

Two responsible and approved sureties, residents of this city, are required in all cases.

No proposal will be considered from persons whose character and antecedent dealings with the Board of Education render their responsibility doubtful.

Dated NEW YORK, June 3, 1890.

SEALED PROPOSALS WILL BE RECEIVED by the Board of School Trustees for the Twelfth Ward, at the Hall of the Board of Education, No. 146 Grand street, until 4 o'clock P. M. on Wednesday, June 11, 1890, for Repairing, etc., the Heating Apparatus of Grammar Schools Nos. 52, 68 and 78.

JOHN WHALEN, Chairman,
ANTONIO RASINES, Secretary,
Board of School Trustees, Twelfth Ward.

Plans and specifications may be seen, and blank proposals obtained, at the office of the Superintendent of School Buildings, No. 146 Grand street, third floor.

The Trustees reserve the right to reject any or all of the proposals submitted.

The party submitting a proposal, and the parties proposing to become sureties, must each write his name and place of residence on said proposal.

Two responsible and approved sureties, residents of this city, are required in all cases.

No proposal will be considered from persons whose character and antecedent dealings with the Board of Education render their responsibility doubtful.

Dated NEW YORK, May 29, 1890.

SEALED PROPOSALS WILL BE RECEIVED by the Board of School Trustees for the Twelfth Ward, at the Hall of the Board of Education, No. 146 Grand street, until 9 o'clock A. M. on Tuesday, June 10, 1890, for Repairing, Altering, etc., at Grammar Schools Nos. 39, 57, 68, 72 and 78 and Primary School No. 32.

JOHN WHALEN, Chairman,
ANTONIO RASINES, Secretary,
Board of School Trustees, Twelfth Ward.

Plans and specifications may be seen, and blank proposals obtained, at the office of the Superintendent of School Buildings, No. 146 Grand street, third floor.

The Trustees reserve the right to reject any or all of the proposals submitted.

The party submitting a proposal, and the parties proposing to become sureties, must each write his name and place of residence on said proposal.

Two responsible and approved sureties, residents of this city, are required in all cases.

No proposal will be considered from persons whose character and antecedent dealings with the Board of Education render their responsibility doubtful.

Dated NEW YORK, May 28, 1890.

SEALED PROPOSALS WILL BE RECEIVED by the Board of School Trustees for the Twelfth Ward, at the Hall of the Board of Education, No. 146 Grand street, until 3:30 o'clock P. M. on Monday, June 9, 1890, for making Sanitary Changes, etc., at Grammar Schools Nos. 57, 72 and 82.

JOHN WHALEN, Chairman,
ANTONIO RASINES, Secretary,
Board of School Trustees, Twelfth Ward.

Plans and specifications may be seen, and blank proposals obtained, at the office of the Superintendent of School Buildings, No. 146 Grand street, third floor.

The Trustees reserve the right to reject any or all of the proposals submitted.

The party submitting a proposal, and the parties proposing to become sureties, must each write his name and place of residence on said proposal.

Two responsible and approved sureties, residents of this city, are required in all cases.

No proposal will be considered from persons whose character and antecedent dealings with the Board of Education render their responsibility doubtful.

Dated NEW YORK, May 26, 1890.

SEALED PROPOSALS WILL BE RECEIVED by the Board of School Trustees for the Twenty-fourth Ward, at the Hall of the Board of Education, No. 146 Grand street, until 9:30 o'clock A. M. on Monday, June 9, 1890, for supplying New Furniture for Grammar Schools Nos. 63, 65 and Primary School No. 45; also for Repairing, etc., the Heating Apparatus of Grammar School No. 64.

ELMER A. ALLEN, Chairman,
LOUIS EICKWORT, Secretary,
Board of School Trustees, Twenty-fourth Ward.

Plans and specifications may be seen, and blank proposals obtained, at the office of the Superintendent of School Buildings, No. 146 Grand street, third floor.

The Trustees reserve the right to reject any or all of the proposals submitted.

The party submitting a proposal, and the parties proposing to become sureties, must each write his name and place of residence on said proposal.

Two responsible and approved sureties, residents of this city, are required in all cases.

No proposal will be considered from persons whose character and antecedent dealings with the Board of Education render their responsibility doubtful.

Dated NEW YORK, May 26, 1890.

SUPREME COURT.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to that part of ELTON AVENUE, (although not yet named by proper authority), extending from Third avenue to Brook avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to all persons interested in this proceeding, and to the owner or owners, occupant or occupants, of all houses and lots and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in this proceeding, or in any of the lands affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, No. 200 Broadway (fifth floor), in the said city, on or before the fourteenth day of July, 1890, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said fourteenth day of July, 1890, and for that purpose will be in attendance at our said office on each of said ten days at two o'clock P. M.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates and other documents used by us in making our report, have been deposited with the Commissioner of Public Works of the City of New York, at his office, No. 31 Chambers street, in the said city, there to remain until the fifteenth day of July, 1890.

Third—That the limits of our assessment for benefit include all those lots, pieces or parcels of land, situate, lying and being in the City of New York, which taken together are bounded and described as follows, viz.: Northerly by the southerly line of Brook avenue; easterly by the centre line of the block between Elton avenue and Washington avenue, a line drawn parallel with and distant 100 feet easterly of the easterly line of Elton

avenue and the centre line of the blocks between Elton avenue and Third avenue; southerly by the northerly line of Third avenue and by a line drawn at right angles with the westerly line of Elton avenue at its intersection with the westerly line of Third avenue, and extending 100 feet westerly of the westerly line of Elton avenue; westerly by a line drawn parallel with and distant 100 feet westerly of the westerly line of Elton avenue; excepting from said area all the streets, avenues and roads, or portions thereof, heretofore legally opened, and all the unimproved land included within the lines of streets, avenues, roads, public squares and places shown and laid out upon any map or maps filed by the Commissioners of the Department of Public Parks, pursuant to the provisions of chapter 604 of the Laws of 1874, and the Laws amendatory thereof, or of chapter 410 of the Laws of 1882, as such area is shown upon our benefit map deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, in the City of New York, on the twenty-eighth day of July, 1890, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated NEW YORK, June 2, 1890.

ROBERT W. TODD, Chairman,
FRANCIS C. DEVLIN,
J. P. SOLOMON,
Commissioners.

CARROLL BERRY, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title wherever the same has not been heretofore acquired, to ONE HUNDRED AND SIXTY-NINTH STREET (although not yet named by proper authority), extending from Tenth to Eleventh avenue, in the Twelfth Ward of the City of New York.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to all persons interested in this proceeding, and to the owner or owners, occupant or occupants, of all houses and lots and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in this proceeding, or in any of the lands affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, No. 280 Broadway (Room 4), in the said city, on or before the twelfth day of July, 1890, and that we, the said Commissioners, will hear parties so objecting within ten week-days next after the said twelfth day of July, 1890, and for that purpose will be in attendance at our said office on each of said ten days at two o'clock P. M.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates and other documents used by us in making our report, have been deposited with the Commissioner of Public Works of the City of New York, at his office, No. 31 Chambers street, in the said city, there to remain until the fourteenth day of July, 1890.

Third—That the limits of our assessment for benefit include all those lots, pieces or parcels of land, situate, lying and being in the City of New York, which taken together are bounded and described as follows, viz.: Northerly by the centre line of the blocks between One Hundred and Sixty-ninth street and One Hundred and Seventieth street, from Tenth avenue to Eleventh avenue; easterly by the westerly line of Tenth avenue; southerly by the centre line of the blocks between One Hundred and Sixty-ninth street and One Hundred and Sixty-eighth street, from Tenth avenue to the Kingsbridge road; and westerly by the easterly line of the Kingsbridge road and Eleventh avenue; excepting from said area all the land included within the line of streets, avenues and roads, or portions thereof, heretofore legally opened, as such area is shown upon our benefit maps deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, in the City of New York, on the twenty-eighth day of July, 1890, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated NEW YORK, June 2, 1890.

JOHN H. ROGAN, Chairman,
CHARLES D. METZ,
JOHN N. EMRA,
Commissioners.

JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to CEDAR PLACE (although not yet named by proper authority), extending from Eagle avenue to Union avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house, in the City of New York, on Saturday, the 28th day of June, 1890, at the opening of Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue known as Cedar place, extending from Eagle avenue to Union avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks, being the following described lots, pieces or parcels of land, viz.:

PARCEL "A."

Beginning at a point in the western line of Forest avenue, distant 650 feet southerly from the intersection of the southern line of Clifton street with the western line of Forest avenue;

1st. Thence southerly along the western line of Forest avenue for 50 feet;

2d. Thence westerly, deflecting 90° to the right, for 970 feet;

3d. Thence northerly, deflecting 90° to the right, for 50 feet;

4th. Thence easterly for 970 feet to the point of beginning.

PARCEL "B."

Beginning at a point in the eastern line of Forest avenue, distant 650 feet southerly from the intersection of the southern line of Clifton street, with the eastern line of Forest avenue;

1st. Thence southerly along the eastern line of Forest avenue for 50 feet;

2d. Thence easterly, deflecting 90° to the left, for 270 feet to the western line of Tinton avenue;

3d. Thence northerly along the western line of Tinton avenue for 50 feet;

4th. Thence westerly for 270 feet to the point of beginning.

PARCEL "C."

Beginning at a point in the eastern line of Tinton avenue, distant 650 feet southerly from the intersection of the southern line of Clifton street with the eastern line of Tinton avenue;

1st. Thence southerly along the eastern line of Tinton avenue for 50 feet;

2d. Thence easterly, deflecting 90° to the left, for 270.71 feet;

3d. Thence northerly, deflecting 90° to the left, for 50 feet;

4th. Thence westerly for 270.71 feet to the point of beginning.

Cedar place is designated a street of the first class and is 50 feet wide.

And as shown on a certain map on file in the Department of Public Parks.

Dated NEW YORK, May 29, 1890.

WILLIAM H. CLARK,

Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to INDEPENDENCE AVENUE (although not yet named by proper authority), extending from Spuyten Duyvil Parkway to Morrison street, in the Twenty-fourth Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house, in the City of New York, on Saturday, the 28th day of June, 1890, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue known as Independence avenue, extending from Spuyten Duyvil Parkway to Morrison street in the Twenty-fourth Ward in the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks, being the following-described lots, pieces or parcels of land, viz.:

Beginning at a point in the northern line of Spuyten Duyvil Parkway, distant 19,010.58 feet northerly, from the southern line of West One Hundred and Fifty-fifth street, measured at right angles to the same from a point 3,018.41 feet westerly from the intersection of the eastern line of Tenth avenue with the southern line of West One Hundred and Fifty-fifth street;

1st. Thence southeasterly along the northern line of Spuyten Duyvil Parkway, for 60 feet;

2d. Thence northeasterly, deflecting 90° 32' 26" to the left, for 50 feet;

3d. Thence northeasterly, deflecting 27° 30' to the right, for 450.46 feet;

4th. Thence northeasterly, deflecting 17° 48' 08" to the left, for 759.30 feet;

5th. Thence northwesterly, deflecting 90° to the left for 60 feet;

6th. Thence southwesterly, deflecting 90° to the left, for 749.90 feet;

7th. Thence southwesterly, deflecting 17° 48' 08" to the right, for 449.99 feet;

8th. Thence southwesterly, for 50 feet, to the point of beginning.

Independence avenue is a street of the first class, and is 60 feet wide.

And as shown on certain maps filed by the Commissioners of the Department of Public Parks in the office of the Register of the City and County of New York, in the office of the Secretary of State of the State of New York, and in the Department of Public Parks.

Dated NEW YORK, May 29, 1890.

WILLIAM H. CLARK,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to EAST ONE HUNDRED AND SEVENTY-FIFTH STREET (although not yet named by proper authority), extending from Carter avenue to Third avenue, in the Twenty-fourth Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house, in the City of New York, on Saturday, the 28th day of June, 1890, at the opening of the court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue known as East One Hundred and Seventy-fifth street, extending from Carter avenue to Third avenue, in the Twenty-fourth Ward in the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks, being the following-described lots, pieces or parcels of land, viz.:

PARCEL "A."

Beginning at a point in the western line of Webster avenue, distant 736.69 feet southerly from the intersection of the southern line of Tremont avenue with the western line of Webster avenue;

1st. Thence southerly, along the western line of Webster avenue, for 60 feet;

2d. Thence westerly, deflecting 90° 22' 43" to the right, for 110.39 feet;

3d. Thence northerly, deflecting 89° 38' 48" to the right, for 60 feet;

4th. Thence easterly, for 110.35 feet to the point of beginning.

PARCEL "B."

Beginning at a point in the eastern line of Webster avenue, distant 740.84 feet southerly from the intersection of the southern line of Tremont avenue with the eastern line of Webster avenue;

1st. Thence southerly, along the eastern line of Webster avenue, for 60 feet;

2d. Thence easterly, deflecting 89° 37' 17" to the left, for 1,308.98 feet to the western line of Third avenue;

3d. Thence northerly, along the western line of Third avenue, for 60.05 feet;

4th. Thence westerly, for 1,306.80 feet to the point of beginning.

East One Hundred and Seventy-fifth street, from Carter avenue to Third avenue, is designated a street of the first-class and is 60 feet wide.

And as shown on certain maps filed by the Commissioners of the Department of Public Parks in the office of the Register of the City and County of New York, in the office of the Secretary of State of the State of New York, and in the Department of Public Parks.

Dated NEW YORK, May 29, 1890.

WILLIAM H. CLARK,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to BAILEY AVENUE (although not yet named by proper authority), extending from Boston avenue to Van Cortlandt avenue, in the Twenty-fourth Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house, in the City of New York, on Saturday, the 28th day of June, 1890, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue known as Bailey avenue, extending from Boston avenue to Van Cortlandt avenue, in the Twenty-fourth Ward, in the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks, being the following described lots, pieces or parcels of land, viz.:

Beginning at the intersection of eastern line of Bailey avenue (confirmed March 4, 1887), with the northern line of said avenue;

1st. Thence northwesterly, along the northern line of said Bailey avenue, for 64.72 feet;

2d. Thence northeasterly, deflecting 75° 41' 43" to the right, for 13.06 feet;

3d. Thence northeasterly, deflecting 53° 53' 21" to the left, for 1,061.61 feet;

4th. Thence northeasterly, curving to the left on the arc of a circle tangent to the preceding course whose radius is 1,160 feet, for 176.63 feet;

5th. Thence northeasterly, on a line tangent to the preceding course, for 100 feet;

6th. Thence northeasterly, curving to the right on the arc of a circle tangent to the preceding course whose radius is 560 feet, for 192.71 feet to a point of reverse curve;

7th. Thence northeasterly, on the arc of a circle tangent to the preceding course whose radius is 1,090 feet, for 152.19 feet to a point of reverse curve;

8th. Thence northeasterly, on the arc of a circle tangent to the preceding course whose radius is 1,210 feet, for 228.61 feet to a point of reverse curve;

9th. Thence northeasterly, on the arc of a circle tangent to the preceding course whose radius is 3,396.16 feet, for 274.4 feet to a point of reverse curve;

10th. Thence northeasterly, on the arc of a circle tangent to the preceding course whose radius is 423.94 feet, for 59.15 feet to a point of reverse curve;

11th. Thence northeasterly, on the arc of a circle tangent to the preceding course whose radius is 500 feet, for 182.49 feet to a point of reverse curve;

12th. Thence northeasterly, on the arc of a circle tangent to the preceding course whose radius is 317.76 feet for 235.94 feet to a point of reverse curve;

13th. Thence northeasterly, on the arc of a circle tangent to the preceding course whose radius is 503 feet, for 376.29 feet to a point of reverse curve;

14th. Thence northeasterly, on the arc of a circle tangent to the preceding course whose radius is 960 feet, for 242.95 feet to a point of compound curve.

15th. Thence easterly, on the arc of a circle tangent to the preceding course whose radius is 340 feet, for 537.73 to a point of reverse curve;

16th. Thence easterly, on the arc of a circle tangent to the preceding course whose radius is 215.36 feet, for 233.43 feet to a point of compound curve;

17th. Thence northerly, on the arc of a circle tangent to the preceding course whose radius is 37.81 feet, for 58.71 feet.

18th. Thence southeasterly, on a line tangent to the preceding course, for 133.73 feet.

19th. Thence westerly, curving to the left on the arc of a circle tangent to the preceding course whose radius is 35.4 feet, for 56.25 feet to a point of reverse curve;

20th. Thence westerly, on the arc of a circle tangent to the preceding course whose radius is 275.36 feet, for 298.47 feet to a point of reverse curve;

21st. Thence westerly, on the arc of a circle tangent to the preceding course whose radius is 280 feet, for 442.84 feet to a point of compound curve;

22d. Thence southwesterly, on the arc of a circle tangent to the preceding course whose radius is 900 feet, for 227.76 feet to a point of reverse curve;

23d. Thence southwesterly, on the arc of a circle tangent to the preceding course whose radius is 560 feet, for 421.44 feet to a point of reverse curve;

24th. Thence southwesterly, on the arc of a circle tangent to the preceding course whose radius is 257.75 feet, for 191.39 feet to a point of reverse curve;

25th. Thence southwesterly, on the arc of a circle tangent to the preceding course whose radius is 560 feet, for 204.39 feet to a point of reverse curve;

26th. Thence southwesterly, on the arc of a circle tangent to the preceding course whose radius is 363.94 feet, for 50.78 feet to a point of reverse curve;

27th. Thence southwesterly, on the arc of a circle tangent to the preceding course whose radius is 3,456.16 feet, for 279.09 feet to a point of reverse curve;

28th. Thence southwesterly, on the arc of a circle tangent to the preceding course whose radius is 1,150 feet for 217.27 feet to a point of reverse curve;

29th. Thence southwesterly, on the arc of a circle tangent to the preceding course whose radius is 1,150 feet, for 165.57 feet to a point of reverse curve;

occupant or occupants, of all houses and lots and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in this proceeding, or in any of the lands affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, No. 280 Broadway (Room 4), in said city, on or before the 7th day of July, 1890, and that we, the said Commissioners, will hear parties so objecting within ten week-days next after the said 7th day of July, 1890, and for that purpose will be in attendance at our said office on each of said ten days at 2 o'clock P. M.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates and other documents used by us in making our report, have been deposited with the Commissioner of Public Works of the City of New York, at his office, No. 31 Chambers street, in the said city, there to remain until the 8th day of July, 1890.

Third—That the limits of our assessment for benefit include all those lots, pieces or parcels of land, situate, lying and being in the City of New York, which, taken together, are bounded and described as follows, viz.: Northerly by the centre line of the block between East One Hundred and Sixty-fifth street and George street, from Union avenue to Stebbins avenue, and the centre line of the blocks between East One Hundred and Fifty-sixth and East One Hundred and Sixty-seventh streets, from Stebbins avenue to Simpson street; easterly by the westerly line of Simpson street; southerly by the northerly line of Westchester avenue; the centre line of the blocks between Westchester avenue and East One Hundred and Fifty-sixth street, from Fox street to Prospect avenue and the centre line of the block between East One Hundred and Sixty-third street and East One Hundred and Sixty-fifth street from Prospect avenue to Union avenue; and westerly by the easterly line of Prospect avenue and the easterly line of Union avenue; excepting from said area all the streets, avenues and roads, or portions thereof heretofore legally opened, and all the unimproved land included within the lines of streets, avenues and roads, public squares and places shown and laid out upon any map or maps filed by the Commissioners of the Department of Public Parks, pursuant to the provisions of chapter 604 of the Laws of 1874, and the laws amendatory thereof, or of chapter 410 of the Laws of 1882, as such area is shown upon our benefit map deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house in the City of New York, on the 21st day of July, 1890, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated NEW YORK, May 24, 1890.

CHARLES D. METZ, Chairman,
JOHN H. ROGAN,
JOHN C. WILLIAMSON,
Commissioners.

JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to that part of EAST ONE HUNDRED AND FIFTY-THIRD STREET (although not yet named by proper authority), extending from Railroad avenue, East, to Third avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first class street or road by the Department of Public Parks.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to all persons interested in this proceeding, and to the owner or owners, occupant or occupants, of all houses and lots and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in this proceeding, or in any of the lands affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, No. 200 Broadway (fifth floor), in the said city, on or before the twenty-fifth day of June, 1890, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said twenty-fifth day of June, 1890, and for that purpose will be in attendance at our said office on each of said ten days at three o'clock P. M.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates and other documents used by us in making our report, have been deposited with the Commissioner of Public Works of the City of New York, at his office, No. 31 Chambers street, in the said city, there to remain until the twenty-sixth day of June, 1890.

Third—That the limits of our assessment for benefit include all those lots, pieces or parcels of land, situate, lying and being in the City of New York, which, taken together, are bounded and described as follows, viz.: Northerly by the centre line of the blocks between East One Hundred and Fifty-third street and East One Hundred and Fifty-fourth street, from Railroad avenue, East, to Third avenue; easterly by the westerly line of Third avenue; southerly by the centre line of the blocks between East One Hundred and Fifty-second street and East One Hundred and Fifty-third street, from Third avenue to Railroad avenue, East, and westerly by the easterly line of Railroad avenue, East; excepting from said area all the streets, avenues and roads, or portions thereof, heretofore legally opened, and all the unimproved land included within the lines of streets, avenues, roads, public squares and places shown and laid out upon any map or maps filed by the Commissioners of the Department of Public Parks, pursuant to the provisions of chapter 604 of the Laws of 1874, and the laws amendatory thereof, or of chapter 410 of the Laws of 1882, as such area is shown upon our benefit map deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house in the City of New York, on the eighth day of July, 1890, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated NEW YORK, May 25, 1890.

GEORGE F. LANGBEIN, Chairman,
G. M. SPEIR, Jr.,
EDWARD L. PARRIS,
Commissioners.

CARROLL BERRY, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to that part of EAST ONE HUNDRED AND SIXTY-FIFTH STREET (although not yet named by proper authority), extending from Union avenue to Westchester avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to all persons interested in this proceeding and to the owner or owners, occupant or occupants, of all houses and lots and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in this proceeding, or in any of the lands affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, No. 200 Broadway (fifth floor), in the said city, on or before the ninth day of June, 1890, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said ninth day of June, 1890, and for that purpose will be in attendance at our said office on each of said ten days at four o'clock P. M.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates and other documents used by us in making our report, have been

deposited with the Commissioner of Public Works of the City of New York, at his office, No. 31 Chambers street, in the said city, there to remain until the tenth day of June, 1890.

Third—That the limits of our assessment for benefit include all those lots, pieces or parcels of land, situate, lying and being in the City of New York, which, taken together, are bounded and described as follows, viz.: Northerly by the centre line of the blocks between East One Hundred and Sixty-fifth street and George street, from Union avenue to Stebbins avenue, and the centre line of the blocks between East One Hundred and Fifty-sixth and East One Hundred and Sixty-seventh streets, from Stebbins avenue to Simpson street; easterly by the westerly line of Simpson street; southerly by the northerly line of Westchester avenue; the centre line of the blocks between Westchester avenue and East One Hundred and Fifty-sixth street, from Fox street to Prospect avenue and the centre line of the block between East One Hundred and Sixty-third street and East One Hundred and Sixty-fifth street from Prospect avenue to Union avenue; and westerly by the easterly line of Prospect avenue and the easterly line of Union avenue; excepting from said area all the streets, avenues and roads, or portions thereof heretofore legally opened, and all the unimproved land included within the lines of streets, avenues, roads, public squares and places shown and laid out upon any map or maps filed by the Commissioners of the Department of Public Parks, pursuant to the provisions of chapter 604 of the Laws of 1874, and the laws amendatory thereof, or of chapter 410 of the Laws of 1882, as such area is shown upon our benefit map deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, in the City of New York, on the twenty-third day of June, 1890, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated NEW YORK, April 24, 1890.

G. M. SPEIR, Jr., Chairman,
WILLIAM N. ARMSTRONG,
TERENCE DUFFY,
Commissioners.

CARROLL BERRY, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to that part of EAST ONE HUNDRED AND SIXTY-NINTH STREET (although not yet named by proper authority), extending from Franklin avenue to East One Hundred and Sixty-seventh street, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to all persons interested in this proceeding and to the owner or owners, occupant or occupants, of all houses and lots and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in this proceeding, or in any of the lands affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, No. 200 Broadway (fifth floor), in the said city, on or before the twenty-sixth day of May, 1890, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said twenty-sixth day of May, 1890, and for that purpose will be in attendance at our said office on each of said ten days at 12 o'clock M.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates and other documents used by us in making our report, have been deposited with the Commissioner of Public Works of the City of New York, at his office, No. 31 Chambers street, in the said city, there to remain until the twenty-seventh day of May, 1890.

Third—That the limits of our assessment for benefit include all those lots, pieces or parcels of land, situate, lying and being in the City of New York, which, taken together, are bounded and described as follows, viz.: Northerly by the centre line of the blocks between East One Hundred and Sixty-ninth street and East One Hundred and Seventieth streets, from Third avenue to Franklin avenue, the centre line of the blocks between East One Hundred and Sixty-ninth street and Jefferson street, from Franklin avenue to Boston road and a line parallel with, and distant 1,000 feet northerly from, the northerly line of East One Hundred and Sixty-ninth street, and extending from Boston road to Southern Boulevard; easterly by the westerly line of Southern Boulevard; southerly by a line parallel with, and distant 600 feet southerly from, the southerly line of East One Hundred and Sixty-ninth street and extending from Southern Boulevard to Union avenue, and the centre line of the blocks between East One Hundred and Sixty-eighth street and East One Hundred and Sixty-ninth street, from Union avenue to Third avenue; and westerly by the easterly line of Union avenue, the easterly line of Third avenue and the easterly line of Boston road; excepting from said area all the streets, avenues and roads, or portions thereof, heretofore legally opened, and all the unimproved land included within the lines of streets, avenues, roads, public squares and places shown and laid out upon any map or maps filed by the Commissioners of the Department of Public Parks, pursuant to the provisions of chapter 604 of the Laws of 1874, and the laws amendatory thereof, or of chapter 410 of the Laws of 1882, as such area is shown upon our benefit map deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, in the City of New York, on the ninth day of June, 1890, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated NEW YORK, April 14, 1890.

NEVIN W. BUTLER, Chairman,
FRANCIS V. S. OLIVER,
JOHN H. KITCHEN,
Commissioners.

CARROLL BERRY, Clerk.

DEPARTMENT OF PUBLIC PARKS.

DEPARTMENT OF PUBLIC PARKS,
NOS. 49 AND 51 CHAMBERS STREET,
NEW YORK, May 14, 1890.

NOTICE IS HEREBY GIVEN THAT THE Commissioners of the Department of Public Parks, in the City of New York, will, at their office, Nos. 49 and 51 Chambers street, in the Emigrants' Savings Bank Building, in said city, on Wednesday, June 11, 1890, at 11 o'clock A. M., hear and consider all statements, objections and evidence that may then and there be offered in reference to the contemplated revision of the street system of the Twenty-third and Twenty-fourth Wards, in pursuance of the provisions of chapter 721 of the Laws of 1887, viz.:

1st. In that part of the Hunt's Point and West Farms districts, bounded by Wilkins place, Boston road, Broadway, East One Hundred and Seventieth street, Third avenue, Tremont avenue and Southern Boulevard, in the Twenty-third and Twenty-fourth Wards.

2d. Proposed discontinuance and closing Carlin place, from Gambrell to Summit street, and Emma place, from Mott to Walton avenue; and laying-out Charles place, from Mott to Sheridan avenue.

3d. Proposed change of grade of East One Hundred and Seventy-third street, between Webster avenue and Topping street.

The general character and extent of the contemplated change consist in changing the location, width, course, windings, lines, class and grades of, and discontinuing and closing, in whole or in part, certain avenues, streets and roads, extending and laying out others to take their places, and fixing and establishing the grades.

Maps showing the contemplated change are now on exhibition in said office.

WALDO HUTCHINS,
J. HAMPDEN ROBB,
M. C. D. BORDEN,
ALBERT GALLUP,
Commissioners of Public Parks.

NEW AQUEDUCT.

MANHATTAN ISLAND SECTION— ADDITIONAL LANDS.

NEW YORK SUPREME COURT—SECOND JUDICIAL DISTRICT.

In the matter of the petition of John Newton, Commissioner of Public Works of the City of New York, under and in pursuance of chapter 490 of the Laws of 1883, and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the appointment of Commissioners of Appraisal, under chapter 490 of the Laws of 1883.

NOTICE OF APPLICATION FOR CONFIRMATION of report of the Commissioners of Appraisal, New Aqueduct—Manhattan Island Section—Additional Lands, as to part of Parcel Number Eighty-one (81), and as to claims for damages contiguous to Parcel Number Forty-five (45).

Public notice is hereby given that I shall make application to the Supreme Court of the State of New York, at a Special Term thereof, to be held in the Second Judicial District, at the Court-house, in the village of White Plains, in the County of Westchester, on the 7th day of June, 1890, at eleven o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard, for the confirmation of the report, as to a part of Parcel Number Eighty-one (81), and as to claims for damages to property contiguous to Parcel Number Forty-five (45), of the Commissioners of Appraisal appointed in the above-entitled matter, pursuant to the provisions of chapter 490 of the Laws of 1883, which said report was filed in the office of the Clerk of the County of Westchester on the fifth day of April, 1890, and a copy of which was filed in the office of the Clerk of the County of New York on the same day.

Dated NEW YORK, May 7, 1890.

WILLIAM H. CLARK,
Counsel to the Corporation,
No. 2 Tryon Row, New York City

DEPARTMENT OF PUBLIC WORKS.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE,
NO. 31 CHAMBERS STREET,
NEW YORK, June 2, 1890.

TO THE PEOPLE OF THE CITY OF NEW YORK:

It becomes my duty as Commissioner of Public Works and custodian of the many and immense interests involved in the City's water supply, to briefly present to the people of the City the present condition of the supply, and the extreme necessity for care and economy in the use of the water.

For a number of years past and up to the present time, the old Aqueduct and the Bronx river conduit have delivered in the City all the water which they are capable of carrying, the supply thus remaining stationary when the City has been constantly growing in population, buildings, manufactures and commerce, creating new and additional demands upon the water service. The consequence is that at certain seasons of the year, notably in extreme cold weather, when the habit of wasting water from faucets to prevent freezing in the pipes prevails, and in warm and dry weather, when various methods of waste are in vogue, the daily consumption exceeds the supply which can by any possibility be received through the old Aqueduct and the Bronx river conduit, the excess of consumption being drawn from the city reservoirs, diminishing the depth of water and the pressure in the distributing mains. There is no possibility of increasing the water supply received in the City until the new Aqueduct is brought into operation, and in the meantime the only reliance for a fair and equal distribution of water throughout the city is care and economy in its use on the part of the people. Already the depth of water in the reservoirs is being diminished at the rate of one inch per day, and if this should continue for any length of time, the pressure in the distributing mains would be so reduced that it would be impossible to deliver water in thousands of houses located on high ground, and in some other locations even in the basements or cellars.

I, therefore, most earnestly appeal to all citizens, residents and people carrying on business in this city to be careful and economical in the use of water, in justice to themselves, to the people at large, and especially to those who are so located as to be already suffering inconvenience from insufficient supply of water.

THOMAS F. GILROY,
Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE,
ROOM 6, NO. 31 CHAMBERS STREET,
NEW YORK, May 28, 1890.

TO CONTRACTORS.

BIDS OR ESTIMATES, INCLOSED IN A sealed envelope, with the title of the work and the name of the bidder indorsed thereon, also the number of the work as in the advertisement, will be received at this office until 12 o'clock M. Tuesday, July 1, 1890, at which place and hour they will be publicly opened by the head of the Department.

No. 1. FOR THE IMPROVEMENT OF ONE HUNDRED AND FIFTY-FIFTH STREET, from St. Nicholas place to McComb's Dam Bridge.

Each estimate must contain the name and place of residence of the person making the same, the names of all persons interested with him therein, and if no other person be so interested it shall distinctly state that fact. That it is made without any connection with any other person making an estimate for the same work, and is in all respects fair and without collusion or fraud. That no member of the Common Council, head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of the Corporation, is directly or indirectly interested in the estimate or in the work to which it relates or in the profits thereof.

Each estimate must be verified by the oath, in writing, of the party making the same, that the several matters therein stated are true, and must be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, to the effect that if the contract is awarded to the person making the estimate, they will, upon its being so awarded, become bound as his sureties for its faithful performance; and that if he shall refuse or neglect to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled upon its completion and that which the Corporation may be obliged to pay to the person to whom the contract shall be awarded at any subsequent letting; the amount to be calculated upon the estimated amount of the work by which the bids are tested.

The consent last above mentioned must be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety, or otherwise, and that he has offered himself as surety in good faith, with the intention to execute the bond required by law.

No estimate will be considered unless accompanied by either a certified check upon one of the State or National banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must NOT be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal, but if he shall execute the contract within the time aforesaid, the amount of the deposit will be returned to him.

THE COMMISSIONER OF PUBLIC WORKS RESERVES THE RIGHT TO REJECT ALL BIDS RECEIVED FOR ANY PARTICULAR WORK IF HE DEEMS IT FOR THE BEST INTERESTS OF THE CITY.

Blank forms of bid or estimate, the proper envelopes in which to inclose the same, the specifications and agreements, and any further information desired, can be obtained at Room 10, No. 31 Chambers street.

THOMAS F. GILROY,
Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE,
NO. 31 CHAMBERS STREET,
NEW YORK, August 14, 1889.

TO OWNERS OF LANDS ORIGINALLY ACQUIRED BY WATER GRANTS.

ATTENTION IS CALLED TO THE RECENT act of the Legislature (chapter 449, Laws of 1889), which provides that whenever any streets or avenues in the city, described in any grant of land under water, from the Mayor, Aldermen and Commonality, containing covenants requiring the grantees and their successors to pave, repave, keep in repair or maintain such streets, shall be in need of repairs, pavement or repavement, the Common Council may, by ordinance, require the same to be paved, repaved or repaired, and the expense thereof to be assessed on the property benefited; and whenever the owner of a lot so assessed shall have paid the assessment levied for such paving, repaving or repairing, such payment shall release and discharge such owner from any and every covenant and obligation as to paving, repaving and repairing, contained in the water grant under which the premises are held, and no further assessment shall be imposed on such lot for paving, repaving or repairing such street or avenue, unless it shall be petitioned for by a majority of the owners of the property (who shall also be the owners of a majority of the property in frontage) on the line of the proposed improvement.

The act further provides that the owner of any such lot may notify the Commissioner of Public Works, in writing, specifying the ward number and street number of the lot, that he desires, for himself, his heirs and assigns, to be released from the obligation of such covenants, and elects and agrees that said lot shall be thereafter liable to be assessed as above provided, and thereupon the owner of such lot, his heirs and assigns shall thenceforth be relieved from any obligation to pave, repair, uphold or maintain said street, and the lot in respect of which such notice was given shall be liable to assessment accordingly.

The Commissioner of Public Works desires to give the following explanation of the operation of this act: When notice, as above described, is given to the Commissioner of Public Works, the owner of the lot or lots therein described, and his heirs and assigns, are forever released from all obligation under the grant in respect to paving, repaving or repairing the street in front of or adjacent to said lot or lots, except one assessment for such paving, repaving or repairs, as the Common Council may, by ordinance, direct to be made thereafter.

No street or avenue within the limits of such grants can be paved, repaved or repaired until said work is authorized by ordinance of the Common Council, and when the owners of such lots desire their streets to be paved, repaved or repaired, they should state their desire and make their application to the Board of Aldermen and not to the Commissioner of Public Works, who has no authority in the matter until directed by ordinance of the Common Council to proceed with the pavement, repavement or repairs.

THOS. F. GILROY,
Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE,
NO. 31 CHAMBERS STREET,
NEW YORK, June 1st, 1890.

PUBLIC NOTICE AS TO WATER RATES.

PUBLIC NOTICE IS HEREBY GIVEN THAT in compliance with the provisions of chapter 559, Laws of 1887, amending sections 350 and 921 of the New York City Consolidation Act of 1882, passed June 9, 1887, the following changes are made in charging and collecting water rents:

1st. All extra charges for water incurred from and after June 9, 1887, shall be treated, collected and returned in arrears in the same manner as regular rents have heretofore been treated.

2d. In every building where a water meter or meters are now, or shall hereafter be in use, the charge for water by meter measurement shall be the only charge against such building, or such part thereof as is supplied through meter.

3d. The returns of arrears of water rents, including the year 1887, shall be made as heretofore on the confirmation of the tax levy by the Board of Aldermen, and shall include all charges and penalties of every nature.

4th. A penalty of five dollars (\$5) is hereby established, and will be imposed in each and every case where the rules and regulations of the Department prohibiting the use of water through hose, or in any other wasteful manner, are violated, and such penalties will be entered on the books of the Bureau against the respective buildings or property, and, if not collected, be returned in arrears in like manner as other charges for water.

5th. Charges for so-called extra water rents of every nature, imposed or incurred prior to June 9, 1887, will be canceled of record on the books of the Department.

THOMAS F. GILROY,
Commissioner of Public Works.

THE CITY RECORD.

THE CITY RECORD IS PUBLISHED DAILY, Sundays and legal holidays other than the general election day excepted, at No. 2 City Hall, New York City. Price, single copy, 3 cents; annual subscription \$9.30.

W. J. K. KENNY,
Supervisor.