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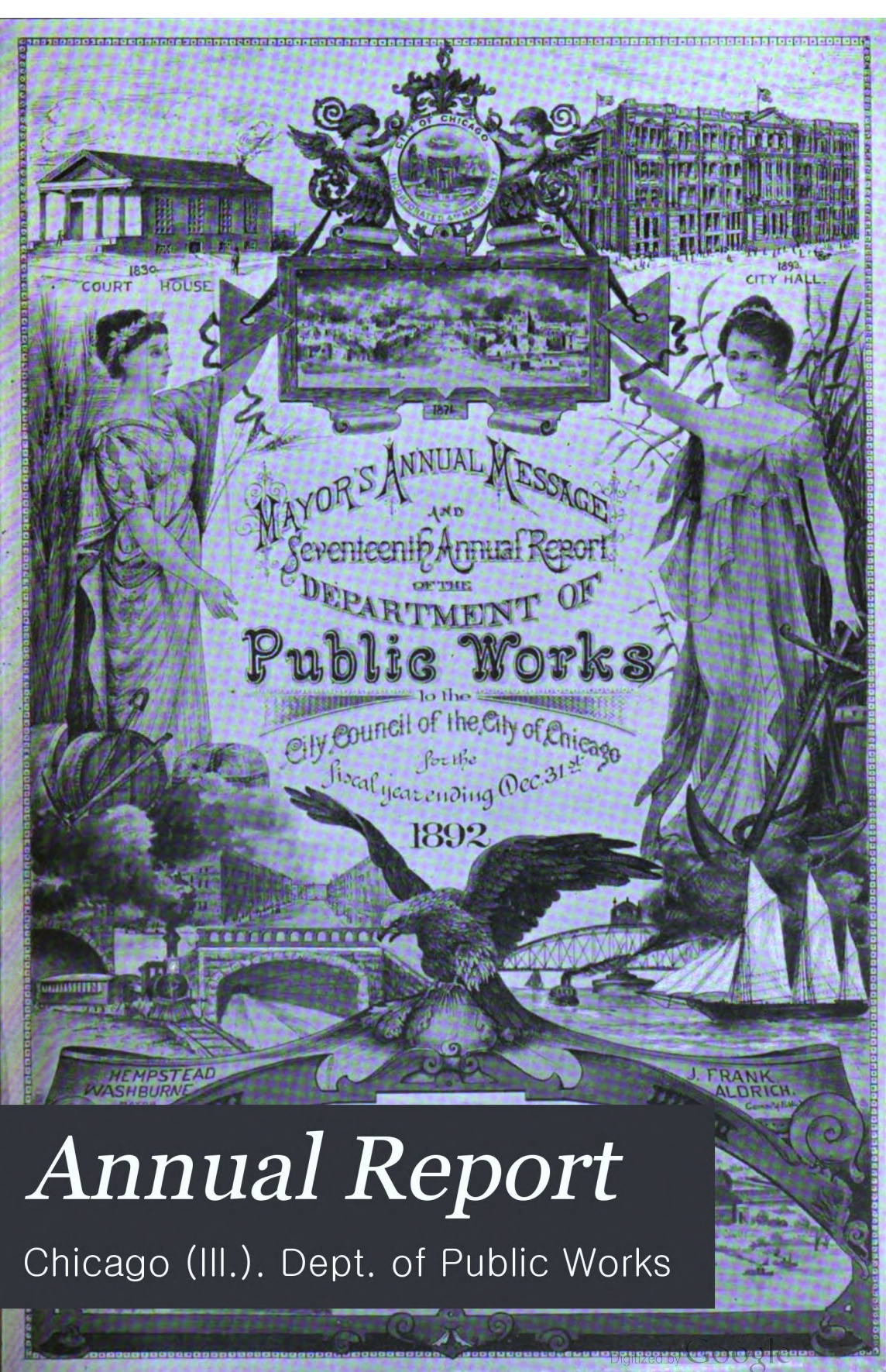
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# Annual Report

Chicago (Ill.). Dept. of Public Works



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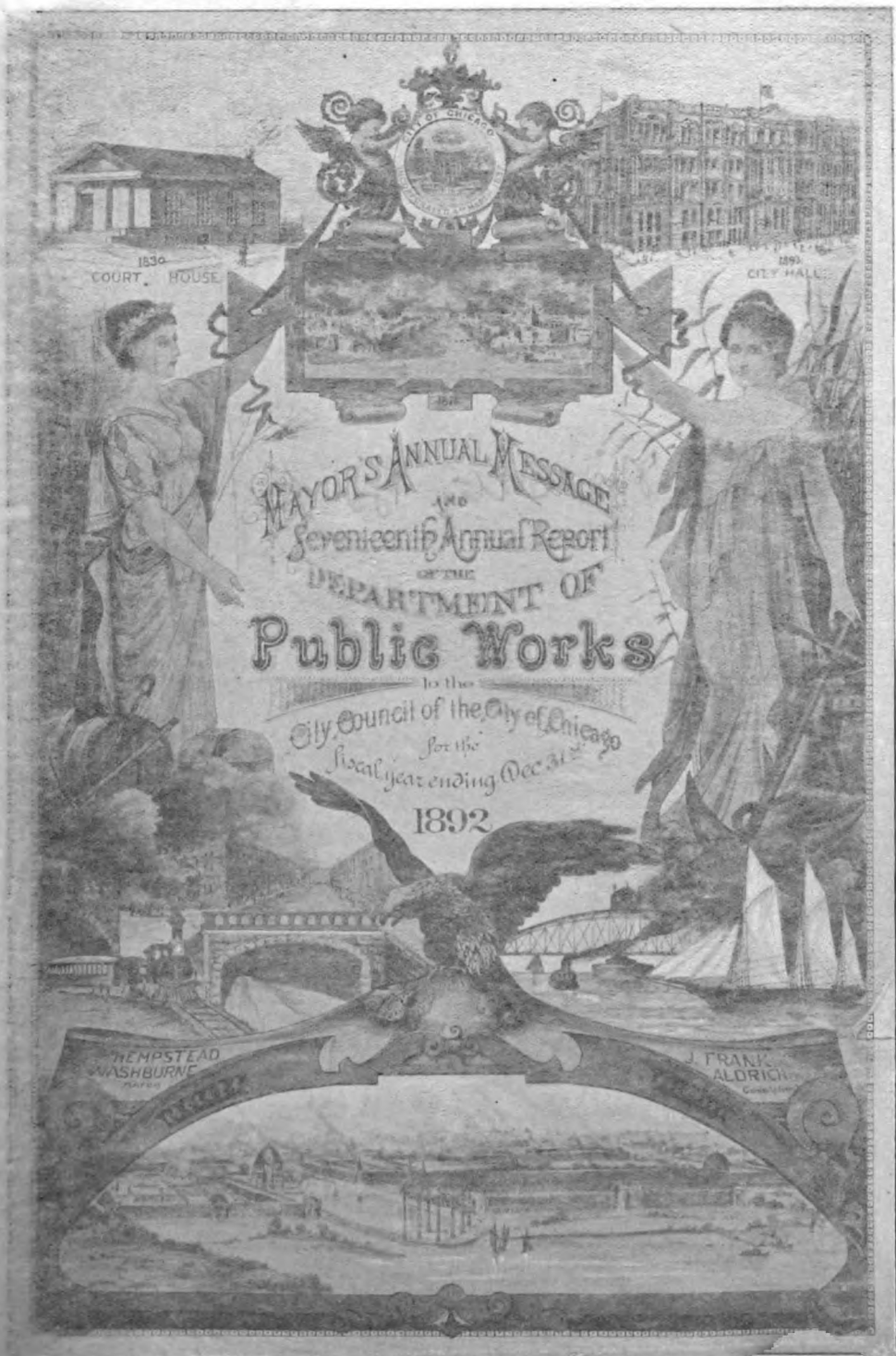
Dr. Friedrich Wilhelm Schlegel

*Friedrich Wilhelm Schlegel*

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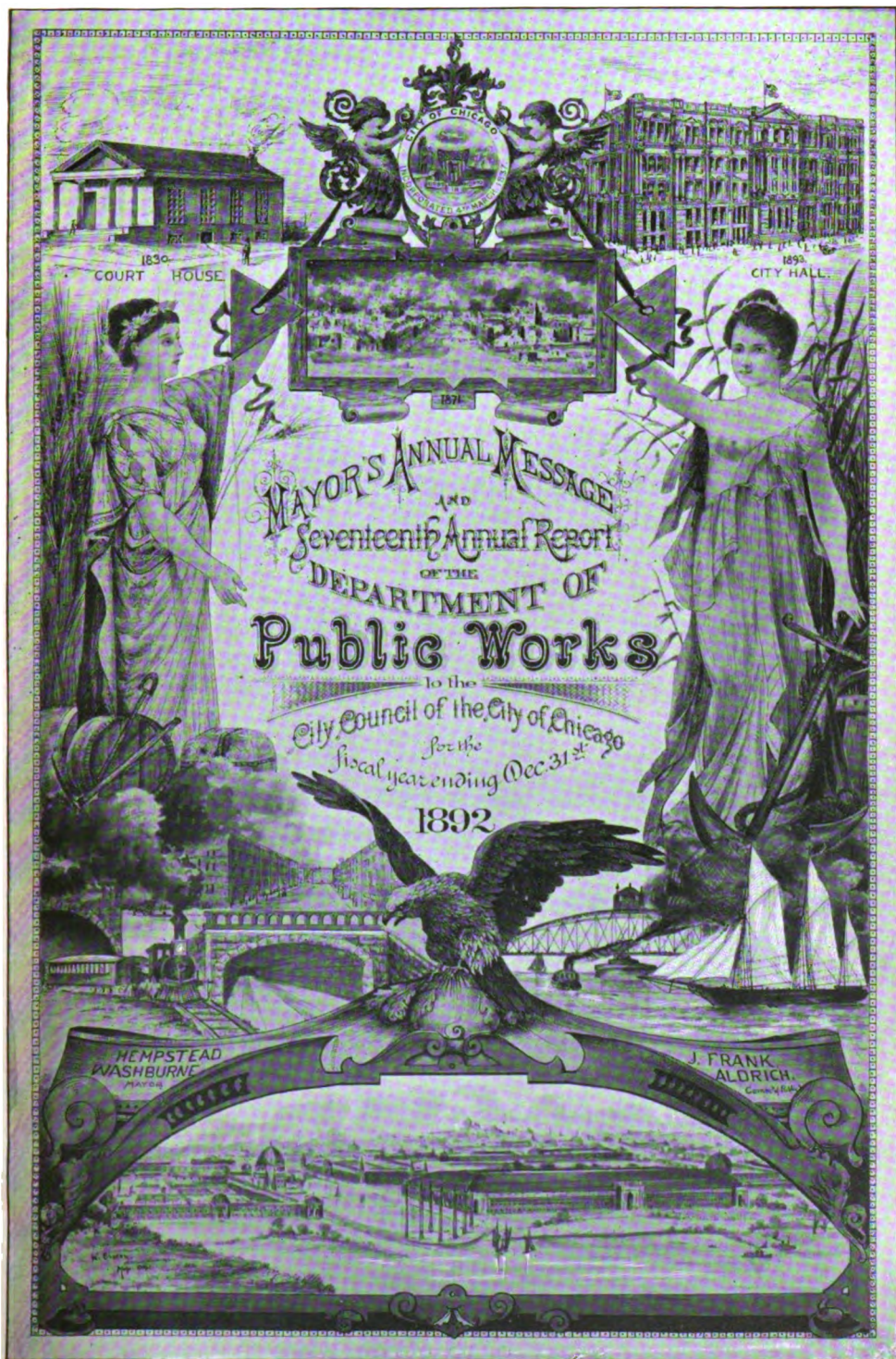
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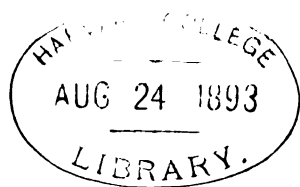
*Alfred Fackenberg*

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City of Haverhill

# MESSAGE OF MAYOR WASHBURNE.

CITY OF CHICAGO, MAYOR'S OFFICE, }  
April 17, 1893. }

*To the Honorable the City Council:*

GENTLEMEN:—The hour has arrived when I transfer my official title and authority to another. Before touching upon subjects pertaining to my administration I desire to extend to each and every member of the City Council and its officials who have served during my term of office my grateful thanks for the uniform courtesy, kindness and consideration shown me. Whatever good has been accomplished in the formation of needed legislation and which received your and my approbation is due as much to the legislative branch of this government as to its executive.

In laying down the never-ending cares of office and in a general review of the departmental work of my administration I must express my thanks and gratitude to those department chiefs who assisted me in bearing a tremendous burden. Without their aid and hearty co-operation nothing could have been undertaken, and nothing could have been accomplished.

In the administration of a trust such as I now relinquish one comes to love and cherish the loyalty and truthfulness of those whom neither malice, misrepresentation nor intrigue can swerve from duty and fidelity. They are like unto a refined metal whose sterling worth must contrast with the scum and dross of its own species, to be valued and retained. Such friends and co-workers shall be held in the sacred bonds of longest memory, for they ennoble manhood, loyalty and truth by contrast with that faithlessness and treachery sometimes developed by ambitious adventurers.

Standing as I do to-night upon the summit of a storm-beaten mountain, around which all the elements of criticism are directed, beneath the clouds I behold the quiet valley into which I will soon descend, and as I leave this point of continual combat to resign the conflict to another hand I obliterate from my memory ephemeral contests and annoying criticisms, holding to myself only memories which shall be pleasant to recall when I look back in future years to those labors I now lay down. I desire to bear away not the stings of conflict, but the forbearance of an American public, whose great heart is ever generous and comes after the heat of conflict to beat at last in unison with that of those whose service it has had.

In transferring the municipal government to other hands I do so confident that there is a determined desire upon the part of each member of this Council to loyally and continuously uphold my successor. He has assumed a task unprecedented in municipal history. The world is knocking at our doors. Our reputation for hospitality, for good government, peace and good order will be made or lost within the present year. I bespeak for him at your hands a disregard for party lines, a disregard for personal ambitions, so that he may succeed in bringing credit and approbation upon our commonwealth. Without your co-operation his hands are tied, with your assistance given, as I am sure it will be given, he and you can do much to bring upon yourselves the thanks of an anxious public. You have not sufficient money with which to meet the exigencies of street, police and fire, but an unselfish co-operation raised above all political and personal interests will go far towards bringing out the best that can be accomplished.

Despite unfair criticism, which is the misfortune of public life, I claim without fear of contradiction that the history of the administration now coming to a close, and the records of its various departments, will show an honest effort to efficiently and economically administer public affairs, the accomplishment



of many noteworthy reforms and the inauguration and completion of many long desired, much needed and beneficial measures.

Among other things accomplished during the past two years, the City has successfully contested and won the great Lake Front litigation in the highest court of the land. A year ago by herculean effort the Commissioner of Health succeeded in thoroughly cleaning the City, thereby preventing a possible invasion of Asiatic cholera. The work done in this direction aroused the public to the necessity of crematories and a change in the system of garbage disposal. The necessities of the situation known to us, and toward which public attention could not previously be successfully directed, suddenly stimulated public thought toward the solution of the problem so long neglected. This awakening of public interest in the detail of municipal management assisted and enabled the authorities to commence the erection of crematories for the destruction of garbage, and I am pleased to say that before the heat of summer crematories will be in operation ready to dispose of garbage and refuse with their pestilence-breeding germs.

#### RAILROAD GRADE CROSSINGS.

Two years ago my attention was directed to the constant menace to life and limb from railroad grade crossings. Being deeply interested in a subject which removed from our midst one citizen per day and left many others to bear through life the evidences of our barbarism, I undertook its consideration with the hope of evolving some method by which this crying evil might be overcome, or at least abated. In the incipient stages of this discussion those who believed the hour had arrived for conclusive action found themselves met with the opposition of the entire railroad fraternity. Investigation demonstrated that viaducts were not the proper practicable solution of the problem. These structures create in an otherwise level city a series of grades and hillocks offensive to the eye and obstructive to commerce. Added to this the repairs

and maintenance of the viaducts cost the City the sum of \$124,500 in 1891 and \$146,700 in 1892. The continuation of such structures erected up to date would be a taxing of the public for their ultimate maintenance in a sum of not less than \$250,000 annually. It was soon learned that such American cities as Philadelphia and Jersey City, as well as many of the great cities of Europe, had solved the problem by the elevation of railroad tracks above the surface. When that proposition was first made as a solution it called down upon those who advanced it the sneering criticism of all railroad interests, whose representatives claimed that the proposition was not feasible or within reason.

I suggested in a communication under date of February 15, 1892, that your Honorable Body appoint a commission which should investigate the subject and recommend what, in its judgment, should be done. You promptly concurred in the suggestion, and with your unanimous approval a committee of distinguished citizens undertook this labor. In a communication under date of July 11, 1892, the committee reported in favor of an ordinance for the elevation of railroad tracks. Public sentiment having been gradually brought to a realization of the necessity of some permanent settlement of the question finally overcame the arguments and opposition of hostile interests until the latter came to admit that the only serious objection to the elevation of tracks was the inconvenience and expense of accomplishing the work. In conformity with the recommendation of the Terminal Commission you did, on February 23, 1893, pass an ordinance carefully and admirably prepared by yourselves, and which shall in time make this City in the matter of railroad terminals the foremost city in the world.

#### THE WORLD'S COLUMBIAN EXPOSITION.

The two years covered by the outgoing municipal administration have witnessed the building of the World's Columbian Exposition. In Chicago has been created the "White

City," the greatest and most beautiful aggregation of architectural triumphs the world has ever known. Throughout the rest of the civilized world all industries, arts and sciences have been bending their energies to the end that their greatest achievements may be displayed in the magnificent palaces now reared in Jackson Park. Soon the display will be presented in all its perfection to the observation of millions of people. The broadest and most enlightened conception or the most prolific imagination can scarcely exaggerate the delight, the education, the high and material benefit which this Exposition means for Chicago, and indeed for the world. For the next half year the civilization of the earth will be focused at Jackson Park. Chicago will be the Mecca of all peoples. Who can foretell or even comprehend what the beneficial results will be?

Chicago's part in the preparation for the great Fair has been a most important one. It has been performed with a broad conception, a fidelity to high ideals, a public and patriotic spirit, a harmony of action and an energy rarely, if ever before, equaled in any great undertaking. Wholly without experience in the work of building a World's Fair, Chicago set about the task as resolutely and confidently as if she had carried a score of them to success. Paris had just shown to the world an exposition which called forth universal praise and admiration. Chicago assumed that the Columbian Exposition must surpass it in all respects, and planned accordingly. To carry out these plans, an immense amount of money was necessary. Public-spirited citizens to the number of 30,000 promptly furnished \$6,000,000 in subscriptions to Exposition stock. The City, through its Common Council, supplemented this with \$5,000,000 of municipal bonds. The Council has also rendered valuable and material aid to the enterprise by the passage of numerous orders and ordinances, and at all times has shown a gratifying readiness to acquiesce in all requests of the Exposition authorities. The Board of South Park Commissioners, too, in addition to furnishing the site, has given



willing co-operation and assistance. The Government, besides voting about \$2,500,000 for its own building and exhibit and expenses of the National Commission and Board of Lady Managers, has given the Exposition authorities \$2,500,000 in souvenir coins, the sale of which at a premium will add \$5,000,000 approximately to the Exposition treasury. Another \$5,000,000 has been raised by the sale of Exposition bonds. Receipts from interest on deposits, admissions to Jackson Park and from other sources have brought the cash resources of the Exposition Company up to fully \$22,000,000. For their own representation the different States and Territories of the Union have made direct appropriations aggregating about \$5,000,000, and foreign countries have voted upward of \$7,000,000. In all of these the amounts raised through private means for Exposition purposes is very great. A conservative estimate places the cost of the Exposition, in money actually expended, at \$60,000,000. The value of the exhibits will doubtless exceed \$500,000,000.

This vast sum of \$60,000,000 has been and is being expended with a degree of wisdom and effectiveness rarely characteristic of a great public enterprise. The results furnish assurance that this is true. Eighty-eight foreign countries will participate in the Exposition. Many of them have never before been represented at a world's fair, and all of them will far surpass all of their previous representations at international exhibitions. A commodious site of 633 acres for the Exposition, easily accessible and bordering on Lake Michigan, has been provided and transformed into a magnificent park. Within these grounds more than 150 buildings, great and small, have been erected. They range all the way in size from the hunters' log cabin to the mammoth Manufactures building, which covers thirty and one-half acres, and is the largest roofed structure ever erected. Altogether the Exposition buildings cover more than 200 acres, and have more than 250 acres of floor space. The architecture, decoration and adornment

of the larger structures, some twenty in number, represent the best work of the greatest living artists, and are the admiration of the world. The exhibits which are to be displayed in these great buildings constitute the material evidences of all of the achievements of civilization. They are by far the greatest aggregation ever made of the best products of human endeavor the world over in every line in which it has been exerted. What mankind has been and has known in the past, all that mankind now is and now has and enjoys, and how great and how expanding are the promises and prospects for mankind in the future—all this will be strikingly and truthfully portrayed by the vast array of exhibits at this Exposition. Even those best informed and most competent to judge cannot conceive how far-reaching and how potent are the influences which this great international Fair is destined to exert. To a large degree it will affect the future of commerce, trade, education, science, art, and all lines in which human forces are engaged throughout the world. It is not exaggeration to say that it is the most universally important event of the century.

It is gratifying to be able to state that Chicago has made preparations for this great Exposition commensurate with its importance. Specification of the details of this preparation is not here necessary. It is enough to know that it has been done in a broad and public spirit, and that due credit is sure to be given.

#### REDUCTION IN THE PRICE OF GAS.

In June, 1891, a committee consisting of the City Comptroller, the Chairman of the Finance Committee and the Mayor were authorized to effect a settlement with the gas companies of the controversy which had long been maintained between those corporations and the City regarding the price of gas to public and to private consumers. After many days of negotiation a settlement was reached whereby the gas companies entered into an agreement that three per cent of their gross receipts should be paid to the City of Chicago as compensation

for the privileges which they enjoy. In addition to this the companies were compelled to reduce the price of gas to the private consumer five cents per thousand cubic feet annually, the reduction to commence January 1, 1893, and to continue five cents annually until the price to the consumer shall be \$1 per thousand cubic feet. By this arrangement the price of gas during the present year is five cents below the former price and by the agreement giving to the City three and one-half per cent of the gross revenues of said companies the City received in the year 1891 the sum of \$152,843.50, and in the year 1892 \$171,114.96, a clear profit to the City never heretofore enjoyed.

#### FOUR-MILE TUNNEL.

One of the most important public improvements ever undertaken or brought to a finish in this City was the construction and completion of the four-mile tunnel. It was completed on December 7, 1892, and through this work the City of Chicago is in the lead of all cities in the matter of the quantity and quality of its water supply. The quantity is limitless and its quality under the severest tests has not been found to be seriously detrimental to health.

#### PUBLIC GAMBLING.

Public gambling, always the cause of great public irritation, was stopped by my orders within twenty-four hours after my inauguration, and at no time since has any public gambling been countenanced or recognized in this City; on the contrary it has been fought and contested in and out of court until it is safe to say no open public gambling resort has been maintained for the past two years. The well-known contest with the Garfield Track Racing Association was, after many weeks of tiresome and bitter litigation, brought to a successful close, and when the courts vested our police with power to suppress the evil the authority was thoroughly and efficiently exercised.

## BUILDING ORDINANCE.

In view of Chicago's history the protection of property and life from fire must be conceded to be one of the most important duties of her municipal government. The City of Chicago existed up to March 13, 1893, under a building ordinance which, while it prohibited the erection of certain frame buildings, made no provision for tearing down the same when erected in defiance of law, and providing only a small monetary penalty. Under this ordinance the Building Department for years has been helpless to contend against the erection in our midst of a class of structures detrimental to safety and property. The ordinance was also defective in many other ways and was not such as to meet the requirements of modern building. I therefore, with your assistance, early in the administration, procured the appointment of a committee consisting of representative architects, builders, trades unions, and of yourselves, which after months of careful study prepared an ordinance which shall meet the requirements of the present and the future. This ordinance was passed, and if you could show no other commendable action during your official life this one ordinance would stand as a monument to your public spirit and the efficiency of your labors.

## THE SMOKE NUISANCE.

Early in my administration I gave much attention to the subject of the abatement of smoke. I found that it was a physical impossibility to contend against an offending public which could not or would not obey the law. At my request a number of prominent and distinguished citizens were invited to take this subject under consideration, and enlist in their membership those citizens whose premises were the worst offenders. The result was that the Society for the Prevention of Smoke grew in members and worked efficiently in a common cause until the smoke nuisance so called was and is perceptibly reduced.

## FINANCES OF THE CITY.

I will now proceed to submit for your consideration a resume of the excellent work of the various departments, which will be shown more in detail by the reports of the same. The finances of the City, as conducted by the Comptroller, have been managed in a manner to warrant the highest commendation from all thinking citizens, and but for his firmness in the oftentimes unpleasant necessity of exercising retrenchment we could not have escaped what was predicted at the commencement of this administration, a return to scrip payment and financial disaster.

Abstract of the receipts of the City of Chicago for the fiscal year ending December 31, 1892 :

Balance in City Treasury, Dec. 31, 1891.	\$ 1,968,722 19
Burr, Jonathan, Fund.....\$	1,736 24
Building Inspection Department.....	70,758 10
Chicago Elevated Terminal Railroad Co.	100,000 00
Cost of Tax Sales.....	1,035 31
City Markets.....	4,700 35
Contingent Fund.....	2,990 61
Department of Public Works.....	829,396 59
Fines of Police Courts.....	87,955 43
Fire Department.....	17,256 83
Fees.....	1,656 00
General Fund.....	212,375 86
Harrison and Tree Medal Fund.....	48 80
Health Department.....	556 45
House of Correction.....	81,734 15
Licenses.....	3,908,948 96
Police Life and Health Insurance Fund..	2,188 34
Police Fund.....	31,373 51
Pounds.....	3,023 56
Public Library.....	7,968 11
Rents.....	34,258 40
Refunding Loan Account.....	1,560,000 00
River Improvement Sinking Fund.....	1,000 00
Sewerage Sinking Fund.....	1,000 00
Sewerage Fund.....	252,050 89

School Fund.....	\$2,657,328	90
School Tax Fund.....	9,202	45
Street Lamp Fund.....	182,347	89
Special Deposit Fund.....	361	32
Special Assessment and Deposit Fund..	6,600,310	69
Suspense Account.....	4,285	88
Taxes.....	10,260,036	70
Wharfing Interest.....	1,219	32
Waukesha Hygeia Mineral Spring Co...	500	00
Water Fund.....	2,901,428	49
	<hr/>	
	\$29,831,033	50
Warrants outstanding, December 31, 1892.		63,463 13
		<hr/>
	\$31,863,218	82

Abstract of the expenditures of the City of Chicago for the fiscal year ending December 31, 1892 :

Warrants outstanding, Jan. 1, 1892. ....	\$	129,201	56
Burr, Jonathan, Fund.....	\$	1,753	02
Building Inspection Dept.....		44,795	66
Chicago Elevated Terminal Railroad Co.		100,000	00
Contingent Fund.....		27,055	86
Cost of Tax Sales.....		3,698	24
Cost of Collecting City Taxes.....		128,438	59
City Markets.....		2,566	70
City Cemetery.....		69	12
City Clerk's Office.....		16,376	01
Department of Public Works.....		2,422,085	07
Election Expense.....		152,726	30
Erring Women's Refuge for Reform....		3,042	57
Errors in Tax Warrants.....		249	90
Fire Department.....		1,504,854	38
General Sinking Fund.....		39,000	00
General Fund.....		135,215	86
Harrison and Tree Medal Fund.....		48	75
Health Department.....		531,692	79
House of Correction.....		126,132	98
House of the Good Shepherd.....		3,042	57
Interest Account.....		975,770	13
Illinois Humane Society... ..		23	00
Judgment Account.....		149,039	03

Legal expense.....	\$ 40,192 56
Police Life and Health Insurance Fund..	126 00
Police Fund.....	3,008,990 39
Police Courts.....	2,823 81
Printing and Stationery.....	9,853 92
Pounds.....	2,176 32
Public Library.....	185,147 01
Refunding Loan Account.....	1,560,000 00
School Fund.....	2,650,167 29
School Tax Fund.....	4,229,974 29
Sewerage Fund.....	538,693 41
Salaries.....	213,304 30
Special Assessment on City Property...	646 41
Special Deposit Fund.....	2,010 95
Special Assessment and Deposit Fund..	6,799,094 32
Street Lamp Fund.....	1,015,410 13
Suspense Account.....	845 87
Washingtonian Home.....	12,500 00
West Lake Street Elevated Railroad....	100,000 00
Water Fund.....	3,330,342 14
	<hr/>
	\$30,069,963 65
Balance in City Treasury, December 31, 1892.....	1,664,041 66
	<hr/>
	\$31,863,218 82

The bonded debt of the City of Chicago, December 31, 1892, was as follows :

**Municipal, River Improvement, Sewerage and Water**

Loan Bonds outstanding.....	\$13,476,450 00
World's Fair Bonds.....	5,000,000 00
Total.....	<hr/>
	\$18,476,450 00
Water Certificates.....	334,000 00
Refunded during 1892, 7 per cent River Improvement Bonds, amounting to.....	249,000 00
7 per cent Sewerage Loan Bonds.....	490,000 00
7 per cent Water Loan Bonds.....	821,000 00
	<hr/>
	\$ 1,560,000 00

Into 4 per cent 20-year bonds, making a saving to the City of \$46,800 for interest per year.



Bonds redeemed, \$39,000. Municipal 7 per cent due December 1, 1892, and Town of Lake Water Bonds, \$14,900. 5 per cent and Series A and B Water certificates amounting to \$666,000.

PUBLIC WORKS DEPARTMENT.

The conduct of this department since the first of the present year has been greatly improved and simplified, and its work, if conducted on the lines inaugurated since January 1st, by its last and most competent Commissioner, will greatly facilitate public business. That the work of this department during the past year has been far reaching and vast can be best appreciated by a perusal of the following figures and facts:

The special improvements completed during the year were:

New end pier abutment at the east end of Indiana street bridge.

New North Halsted street viaduct.

Canal street drawbridge, with new approaches; also new dock on south side of river.

New superstructure of viaduct on North Clark street, over North Water street, necessitating alterations in masonry and approaches, and new bridge seats and copings.

Ogden boulevard viaduct.

Four-mile tunnel.

Lake View tunnel, temporary intake.

Sixty-eighth street shore inlet.

Water pipe tunnel under Chicago river at Thirty-fifth street.

Addition to Sixty-eighth street pumping station.

Twelve million gallon Gaskill engine in Lake View pumping station.

Washington Heights pumping station reconstructed and much enlarged.

Seventy-third street sewerage pumping station.

There were during the year 108 miles of streets paved. 121 miles of streets improved, making a total of paved streets in the City of 878 miles, and leaving a total of all kinds of

streets in the City of 2,370 miles. There were constructed 799.65 miles of sidewalk, and 134.33 miles of sidewalk were repaired, while 10,922.66 miles of streets were cleaned, and 200,760 house connections put in, as against 181,398 last year. The total cost of the water works to the City to December 31, 1892, was \$20,378,255.24. Total operating expenses and maintenance of the water works up to December 31, 1892, including interest on the bonded debt, \$19,310,311.89. Total water works income to December 31, 1892, \$30,105,468.67. Difference between income and expenditure, \$10,795,151.80. The amount of water taxes for the year was \$2,738,434.10. The amount of water furnished was 71,035,000,000 gallons, as against 63,552,000,000 last year. About 104 miles of sewers were constructed, making the total number of miles of sewerage in the City 992.346. There were 12,231 catch-basins cleaned, 3,462 raised to grade, and 68.34 miles of house drains laid. Through the dredging operations there were 179,302 cubic yards of material removed from the Chicago River, and the navigation during the year has increased 1,077,595 tons.

#### SPECIAL ASSESSMENT BUREAU.

The work of the Special Assessment Bureau has increased to such an extent that it has now become the largest sub-department in the magnitude of its work in the City. The efficient manner in which this bureau has been managed is best understood by reference to the work which has been performed. Considering the technical nature of this work and the absolute accuracy required in every detail, the City is to be congratulated upon the manner in which it has been carried on.

The following list shows the total of assessments made in each year since 1861:

For the year ending April 1, 1862.....	\$ 42,635 49
For the year ending April 1, 1863.....	46,493 67
For the year ending April 1, 1864.....	389,169 31
For the year ending April 1, 1865.....	103,576 35
For the year ending April 1, 1866.....	802,574 56
For the year ending April 1, 1867.....	317,206 18

For the year ending April 1, 1868.....	\$ 1,354,436	48
For the year ending April 1, 1869.....	2,395,683	03
For the year ending April 1, 1870.....	2,836,852	48
For the year ending April 1, 1871.....	2,359,835	89
For the year ending April 1, 1872.....	62,222	25
For the year ending April 1, 1873.....		
For the year ending April 1, 1874.....	749,460	27
For the year ending April 1, 1875.....	723,254	42
For the nine months ending January 1, 1876.....	60,585	72
For the year ending January 1, 1877.....	1,516,081	07
For the year ending January 1, 1878.....	124,498	48
For the year ending January 1, 1879.....	284,900	45
For the year ending January 1, 1880.....	588,963	44
For the year ending January 1, 1881.....	980,895	50
For the year ending January 1, 1882.....	1,227,169	71
For the year ending January 1, 1883.....	1,395,372	98
For the year ending January 1, 1884.....	2,232,757	04
For the year ending January 1, 1885.....	2,857,905	28
For the year ending January 1, 1886.....	2,889,544	80
For the year ending January 1, 1887.....	3,307,567	99
For the year ending January 1, 1888.....	3,160,474	67
For the year ending January 1, 1889.....	3,655,956	78
For the year ending January 1, 1890.....	4,220,869	93
For the year ending January 1, 1891.....	6,987,155	48
For the year ending January 1, 1892.....	8,790,443	29
For the year ending January 1, 1893.....	14,505,701	79

## BUILDING SUB-DEPARTMENT.

The record of the work done by the Building sub-department shows perhaps more than that of any other in the City government the phenomenal and unprecedented growth of our City. The work of this department, great as it is through the ordinary increase and growth of the City, has during the past two years outstripped the record of all previous years. This was caused by the erection of innumerable buildings during that period preparatory to the World's Fair. This extra work was sufficient to more than occupy the attention of the entire department, but in addition to this the ordinary work charged to the department has been conducted in a most praiseworthy manner. Some recent calamities causing the loss of human

life have been charged up to negligence, but I believe the considerate judgment of the public will finally exonerate it from blame when the fact is recalled that the accidents referred to were caused by such storms as seldom, if ever, sweep through our City. The details herewith subjoined speak for themselves, and I believe cannot be read by any person without securing commendation for the chief of the department.

There were erected and permits issued during the year 1892 for 13,194 buildings, as against 11,805 in 1891, 11,608 in 1890, 4,931 in 1889, 4,958 in 1888 and 4,833 in 1887. The number of feet frontage of buildings erected was 327,573, as against 282,672 in 1891, 266,284 in 1890, 119,572 in 1889, 116,419 in 1888, 115,506 in 1887. The cost of the buildings erected in 1892 was \$64,740,800. The increase in cost, as will be seen by reference to the annexed table, is in proportion to the increase of the number of frontage, being more than twice the number erected in any year in the history of the City, with exceptions of the years 1890 and 1891, and being several millions in excess of those years. The receipts for the year 1892 were \$69,944.20, the expenditures \$44,794.06, leaving a balance to the credit of the department at the beginning of the year of \$25,148.54. This is in marked contrast of the condition in which the department was found when this administration took hold, as its expenditures for the year previous had been in excess of its receipts.

#### WATER OFFICE.

The system of collecting water taxes was early in my administration much improved and simplified. I arranged, to this end, for the collection of these taxes by the United States and Pacific Express Companies, and under the provisions of this arrangement, tax-payers can now pay in the offices of these companies their water rates, each in the office nearest the location of his or her home, instead of being obliged to make long journeys down to the main office, often at much inconvenience and expense. Women and others who can not well

afford the time and trouble of coming down town from remote parts of the City, to stand in long lines, experiencing delay and inconvenience, can now, by the payment of five cents to the Express Companies (half the usual car fare involved heretofore), have their taxes paid without trouble or loss of time, and receive a receipt for same.

In addition to this important reform instituted in the water office, there has been a remodeling of the method of taking meter rates, which has greatly simplified the old method, effected a large saving by making it possible to reduce the number of employes, and destroying the opportunities for fraud which heretofore existed. The book-keeping of the department has been thoroughly remodeled, simplified and improved. The department, however, is not on the business basis it should be. It cannot be further changed until an ordinance for that purpose is passed. An ordinance was introduced looking to this end, but for some reason never met with your approval.

#### BUREAU OF STREETS.

The Street sub-department has been ably conducted and has accomplished much needed and valuable work. In this department some changes have been inaugurated simplifying the system of book-keeping and transferring the Sidewalk sub-department of the Bureau of Special Assessments. This was done in order to simplify this work which is by law entirely under the jurisdiction of the Special Assessment Bureau, and as such should long ago have been transferred to it. Early in the administration I discovered that there was no system in the purchase of supplies and materials used by the City, and I therefore created a bureau for this specific purpose, known as the Purchasing Agency. The creation of this bureau has resulted in a saving of much money to the City. Before its creation each department could purchase its own supplies. There being so many departments this lack of system caused much confusion. Under the present method all purchases must

pass through the hands of the Purchasing Agent and from his office a complete history may be learned of every transaction of this character.

#### SEWERAGE, MAP AND ENGINEERING BUREAUS.

The Sewerage, Map and City Engineering Bureaus have been conducted as heretofore without criticism or adverse comment, and that they have accomplished a vast amount of work can readily be seen by reference to the figures set forth in giving a resume of the work done by the entire Department of Public Works.

#### HEALTH DEPARTMENT.

During the past year the Health Department has had more demanded of it, more to contend with, more extraordinary conditions to meet than ever before in its history, and yet, the occasional criticisms upon its management to the contrary notwithstanding, its records and the results obtained by it demonstrate beyond all question or cavil the great efficiency with which the duties of the department have been discharged. I have no hesitation in saying that it has accomplished more than ever before, considering the means at its disposal and the increased demands made upon it. The death rate of Chicago for the past year has been less in proportion to our population than at any time in our history, and the general healthfulness of the City, which is the true test of municipal cleanliness, testifies to the efficiency of the department in the work of sanitation. The administration is enabled to point with pardonable pride to the figures annexed, which show that month by month, since January, 1891, to the present time, with a few exceptions, there has been a steady decrease. The annual death rate is lower than for years past and lower than any city in Europe or this country that has over half a million population. In 1891 the death rate per one thousand was 22.20. For the past year the death rate from all causes is 18.23. The rate for the same period from natural causes being 17.4. An example of how much can be done and has been done towards stamping

out contagious diseases is shown by the results obtained in the number of cases of small-pox last year imported to this City. Each of these cases was clearly defined, and each case was found in thickly settled districts. Upon being diagnosed they were immediately transferred to the municipal hospital for small-pox, the house thoroughly fumigated, and in some cases clothing burned, and everyone in the neighborhood properly vaccinated and kept under surveillance. As a result, in no single instance has there been a secondary case. Good results have been obtained in the efforts of the department to reduce the mortality from typhoid fever, the results showing a decrease of over five hundred deaths from that disease. The medical inspectors have vaccinated over twenty-eight thousand persons during the year, and the results of their labor is manifest in the immunity enjoyed from an outbreak of the dreaded scourge. The work of vaccination, which has been conducted on a wholesale scale, entire neighborhoods having been vaccinated at one time, together with the work of the inspection of immigrants and the detail work of the department, has made this a busy year for the medical staff, and their valuable services deserve commendation. Owing to the provisions of the charter governing the revenues of the City, we were enabled to appropriate only the sum of \$427,780 for the maintenance of the First Ward plant, sweeping, garbage contracts, and the removal of dead animals. With this totally inadequate sum, the best that could be done was done. The city of New York expends annually \$1,500,000, and while it has a larger population there is only about one-fifth of the area to be cleaned. Boston, with a third of the population of Chicago, expends annually in excess of \$600,000, while the city of London, England, appropriates a sum equivalent to \$25,000,000 per annum for the purpose of carrying on street sweeping and garbage removal. These figures speak for themselves. The needs of this department for the future are many, as they have been in the past. It needs an increase in the number of men commensurate with the urgent demands of the time. An



appropriation sufficient to meet necessary expenditures; an increase in the number of tenement and factory inspectors—ten or twelve men to do nothing but look after contagious diseases, fumigation, disinfection and ambulance work. The finances of the department are in excellent condition and, notwithstanding the unusual and extraordinary demands, in not a single instance or in any fund has there been an overdraft.

#### POLICE DEPARTMENT.

The Department of Police has been ably and efficiently conducted during the past two years, and I venture the assertion without fear of contradiction, if facts instead of prejudice be the basis of criticism, that at no time in the history of the department has it been so free from political entanglements.

We early inaugurated, with the assistance of the respected chief of the department, a system of physical and educational examinations which prevented the going upon the force of incompetent men. Its general efficiency has been improved, and a continuation of the department upon the basis now well inaugurated must ultimately result in rendering it extremely efficient and second to no force in the country in times of ordinary duty. In times of great public peril the Police Department of Chicago has never been found wanting; it has risen to every great emergency and has covered itself with honor and public commendation.

During the past two years, although at different times serious labor troubles and strikes were threatened, we have not permitted the police to be called on in any instance where outside or private police powers were invoked. We guaranteed protection to property, and for the past two years property has been safe. The demands of labor have been heard and the right to demand higher wages and shorter hours conceded, but the right to destroy property by turbulent masses who have no common interests with honest labor has been denied. No threatened strike has so far resulted in the attempted overthrow of government, in the destruction of public or private property,

nor in the delay of any common carrier for one hour in the transaction of its business. This has been due to a desire upon the part of the administration to administer the law fairly and impartially, but firmly in all directions, and to the coolness, good judgment and conservatism of the efficient officers of the department.

#### FIRE DEPARTMENT.

The Fire Department so nearly touches all our personal and commercial interests that its annual showing invites attention. The department still maintains, under the capable management of its most honored chief, the foremost rank in the civilized world. It is the marvel of visitors, and it is the model upon which those of all other cities are molded. Although it has many imitators, it has as yet no rival. Its report will clearly establish the fact that it keeps abreast of the City's growth, and will in the future, as well as in the past, justify our confidence.

#### CITY ELECTRIC LIGHT SYSTEM.

The City Electric Light system has been increased during the past two years by the addition of one fifty-light and the exchange of three thirty-five for three fifty-light lamps, 135 lamp-post hoods, etc., 14 miles of electric light cable, 122 man-holes and 88,301 feet of iron pipe. A new Berryman steam heater has been placed in service at the Throop street plant and a Colles at Chicago avenue and Sedgwick street. The four plants now contain fourteen engines, twenty-one boilers, four sets stokers, four steam heaters, forty-three high and low tension dynamos, from which the City operates 1,103 two-thousand candle power double carbon lamps, displacing 4,408 gas lamps. There have been laid altogether 183 miles of electric light cable and 574,340 feet iron pipe underground; also, 12,109 feet of underground conduit constructed with 352 man-holes and 125 hand-holes for the purposes of ventilation. The City rents 147 lights from the Power Company in the Town of Lake and forty-five from the People's Light and Power Co. in South Chicago.

## LAW DEPARTMENT.

The Law Department has at no time in the history of the City been more ably maintained or conducted than during the past two years. It has had control and management of more litigation in point of cases docketed than ever before. It has standing to its credit a record of more cases disposed of and won than any previous administration. Added to this, under the able management of Mr. John S. Miller, it has successfully contested and won the celebrated Lake Front case, whereby the City of Chicago is confirmed in its rights by the Supreme Court of the United States and has secured property conservatively valued at \$80,000,000.

The Prosecuting Attorney's office, a branch of the Law Department, and the Special Assessment Attorney's office, also a branch of the same, have been conducted with great credit, and thanks are due to those officials whose work has contributed to this end.

## HOUSE OF CORRECTION.

I desire to call your attention to the condition of our House of Correction, and to urge the necessity of so enlarging its accommodations as to meet the increased demand upon its resources. At the present time and for the past two years it has constantly been overcrowded. At some times cells constructed for the accommodation of one prisoner have had to be utilized for three. This condition of affairs is unnecessary and inhuman, and were it a condition mentioned in connection with the remote past we would look upon it with horror. At no time has sufficient money been appropriated for this institution. It is and has been a school for crime, and not a reformatory. It receives within its doors the hardened criminal and the innocence of youth, whose only offense is waywardness, and the child previously unknown to serious misdemeanor leaves its gates familiar with the hideous phases of human degradation, vice and depravity. In this age of knowledge, wealth, enlightenment and education, the second city

on this continent maintains at the municipal expense an institution which annually transforms the ignorance of youth into the science of criminality. The competent and painstaking Superintendent has long urged the necessity of larger quarters in order that a classification may be made among the prisoners, and in order that the youth who finds his way to the bridewell may be saved from the debauching associations he must now endure. I appeal to you in the interests of common humanity, in the interests of our future population, in the interests of good government, to make some effort whereby criminals and trivial offenders may be disassociated. We spend annually in various directions millions for the detection and punishment of crime, and appropriate but \$60,000 for its prevention.

#### PUBLIC LIBRARY.

The Public Library has continued to increase in usefulness, and is keeping even pace with the material development of the City. It is rapidly growing in size and importance. While at the last fiscal year it contained but little above 170,000 volumes, it has augmented its treasures since then to upwards of 187,000 volumes, the accessions being in a large measure valuable works in the sciences and arts. The entire use of books during the last twelve months, not including, however, the consultation of books in departments in which visitors have free access to the shelves, amounted to 1,410,679 volumes, and the use of periodicals and newspapers in the several reading rooms, excepting the consultation of daily papers on file, to 700,917. This makes in all a circulation of about 2,200,000, being by far the largest in the country. The number of branch reading rooms in the several districts of the City, now open to the public, is five, to which another is about to be added. The free delivery stations, established all over the City wherever the convenience of our population suggests it, number now twenty-nine.

During the past year the ground has been broken for the new Library building, and the Board of Directors have let several contracts for the work of construction. The foundation is

now nearly finished, and the work on the superstructure, for which preparations are now being made, will soon be begun. The building when finished will be one of the finest architectural ornaments of the City, and the only one of its class, being purely classic in style. Great credit is due the City Council for the constant liberality and readiness with which that body has thus far aided the Library Board in their efforts to give the City the best and foremost Public Library.

#### EDUCATION.

The work of this department has been very creditable, as its record for the past year will show.

The enrollment for the school year 1891-92 was 157,743 ; an increase of nearly 11,000 over that of the previous school year.

The average daily membership for February, 1893, was 132,883 ; an increase of 6,336 over that of the corresponding month for the previous year.

The seating capacity in buildings owned by the City, at the close of the month of February, 1893, was 140,291 ; an increase during the year of 11,081.

Number of teachers, February, 1893.....	3,483
Number of teachers, February, 1892.....	3,217
Increase .....	266

The number of seats in rented buildings, 10,455 ; an increase during the year of 1,585.

Number of rooms in buildings owned by the City, 2,592 ; an increase of 219.

Number of rooms in rented buildings, 229 ; an increase of 34.

The following school buildings have been opened during the past year :

#### *In South Division.*

A portion of the Greenwood avenue school building, containing six rooms ; the remaining portion of the building, consisting of ten rooms and assembly hall, will be completed and ready for use September next.

Van Vlissingen, One Hundred and Eighth place, near Wentworth avenue, sixteen rooms and assembly hall. Eight rooms have been finished off, and are now occupied.

An additional building on the Holden School lot, consisting of seventeen rooms and assembly hall.

A four-room frame building, corner Eighth-third street and Houston avenue.

The Burroughs School building, corner Geneva street and Washtenaw avenue (Brighton Park), sixteen rooms and assembly hall.

#### *West Division.*

John Ericson, on West Harrison street, near Sacramento avenue, sixteen rooms, with assembly hall.

Northwest Division High, corner Davis street and Potomac avenue, sixteen class rooms, with assembly hall, laboratories, etc.

Additions to the Clarke School building, Ashland avenue, between Thirtieth and Hastings streets, two three-room additions.

The Alice L. Barnard School building, corner of One Hundred and Fourth street and St. Charles place (Washington Heights), a sixteen-room building with assembly hall, is practically completed, and will be occupied in a few weeks.

In addition to the above buildings, contracts have been awarded during the year for the following school buildings, which will be completed and ready for occupancy by the opening of the next school year, September, 1893 :

#### *North Division.*

Louis Nettelhorst, Evanston avenue, between School and Melrose streets, sixteen rooms, with assembly hall.

Grace and Sheldon streets (Lake View), sixteen rooms, with assembly hall.

Addition to Sulzer street School building (Ravenswood), twelve rooms, with assembly hall.

Belle Plaine avenue and Leavitt street, four-room frame building.

*South Division.*

Geo. Wm. Curtis School building, corner Stanwood avenue and State street (Kensington), sixteen rooms and assembly hall.

Herman Raster, corner Wood and Seventieth streets (Englewood, on the hill), eight rooms.

Additional building on Kershaw School lot, Winter street, between Sixty-fourth and Sixty-fifth streets, twelve rooms and assembly hall.

Addition on J. N. Thorp School lot, corner Superior avenue and Eighty-ninth street, Cottage Grove avenue, eight rooms.

Addition to G. S. Wentworth School building, corner Seventieth and Sangamon streets (Englewood), six rooms.

Four-room frame building, corner Ellis avenue and Seventy-second street.

Four-room frame building, corner of Blanchard avenue and Fifty-fifth street.

*West Division.*

Brentano, Linden avenue, between Evergreen and Diversey avenues (Maplewood), sixteen rooms, with assembly hall.

Clybourn place and Girard street, sixteen-room building, with assembly hall.

Augusta street and Washtenaw avenue (east of Humboldt Park), sixteen rooms, with assembly hall.

Geo. Howland School, corner Spalding avenue and Sixteenth street, sixteen rooms, with assembly hall.

Whittier school building, corner Lincoln and Moore streets, sixteen rooms, with assembly hall.

The four-room frame buildings are being erected on the outskirts of the City, where the erection of full-size buildings is not warranted by the present population of the respective neighborhoods in which they are being erected.

It is only by reason of the liberal appropriations for the year 1892, which are now being collected and consequently

available during the present year, that the Board of Education have been warranted in the erection of the large number of buildings now under contract.

#### MISCELLANEOUS.

On November 21, 1892, a much needed ordinance was passed by your Honorable Body, known as the Milk Ordinance. This was one greatly needed in this community and it indicated the desire upon your part to firmly step between a public traffic which had become so prostituted that it bore annually to their graves thousands of children, whose lives were sacrificed to the greed of irresponsible and grasping dealers. This bureau has been well inaugurated and its efficiency is daily becoming more apparent in the quality of the milk now sold.

About a year ago public attention was directed to the desirability of a system of free baths for the use of those who could not otherwise afford the luxury and sanitary precaution of bathing, and it was my pleasure to inaugurate the establishment of bathing places upon the lake shore, under police protection, thus taking the first step in a movement which will result in the permanent establishment of resorts to which the people may go and enjoy a luxury and necessity hitherto denied them.

The agitation for cleaner streets and alleys enabled us to discontinue the imperfect and unsatisfactory methods which we found in use, and recently a special bureau has been created by ordinance to which will in future be entrusted the cleaning of both streets and alleys. In a communication to your Honorable Body, under date July 6, 1892, I urged the creation of the bureau which has recently been established. For some reason it was not then deemed practicable to pass the ordinance drafted by the committee appointed for the consideration of this matter, but the recent passage of a similar ordinance creating a similar bureau to that then recommended will result in the permanent establishment of a department which will justify the opinions of those who have recently so assiduously labored for its establishment.



I have urged upon you on several occasions the necessity for an ordinance prohibiting the stabling upon our streets of horses without attendants. No such ordinance has yet been passed, but I still hope you will not permit our City to face our coming critics without an ordinance which shall clear our streets of the many thousands of such horses which daily blockade the thoroughfares, add to the filth upon the streets and save stable hire to their prudent owners. One of the first comments of a stranger coming to our City is upon its strong resemblance in this regard to the surroundings of a country meeting house or a village square.

Early in the administration you did much to facilitate the convenience of the public by the passage of the so-called cross-town street car ordinances which I was pleased to approve in the interests of the general public.

#### NEW CITY CHARTER.

It is a matter of regret that certain interests have prevented our State Legislature from extending the term of the chief executive of the City. Good municipal government is the most urgent necessity of the present day. The defects of municipal government are the result of system rather than the fault of men. Men are but human, and humanity is ambitious. Many an excellent official has sacrificed his efficiency to advance his political fortunes ; remove from him the possibility of immediate advancement and he becomes an ideal public servant. Public patronage is a public curse ; it demoralizes government, national, State and local. The constant change with alternating administrations brings into life and maintains in existence an army of professional office-seekers. They are as a body honest, capable and loyal men, but the chances of those that are out necessitates that those who are in shall neglect public duties to maintain their hold. I voice the sentiment, I believe, of every public official and of every man within your Honorable Body when I say that a change whereby you may be released from the never-ceasing pressure for office would be

hailed with delight. Under existing conditions you must of necessity recognize that which you deplore and in the multiplicity of applications often find that unknown to yourselves you have furthered the interests of men and measures which should have never been considered had you more time, and the demand on you not so great. The City of Chicago exists under a charter granted in 1837. That charter was created in the light of its day; since then our City has increased from a village to a metropolis of a million and a half. The dangers from changes arising out of political patronage in a municipality comprising but a few hundred employes is no great hindrance to the public service, but a metropolitan growth creates an army of employes whose short-lived existence becomes a menace to good government. I would recommend for your consideration the necessity of a new or amended charter for the City providing for an extended term of office for the chief executive. I have for nearly two years advocated that the Legislature be urged before its adjournment to extend the term of Mayor to a period of four years and that such official be ineligible to re-election; as a further safeguard the charter should provide that no chief of any bureau or department be eligible to the position of Mayor to succeed his chief, though he may be eligible to succeed himself in such department by appointment. Without this provision the change of patronage would still continue and be about as great an evil as it now is. Within a few years our City will become the largest in population on this continent. Shall it become the worst governed? You can now do a work which shall live after you, a work which shall give to your children a charter and a government capable of meeting all their wants and which shall reflect everlasting credit upon its founders. The time has arrived when some steps must be taken to remove certain chartered evils. Our financial system of collecting and handling taxes, our hydra-headed system of county, city and town governments, which in effect cover but one population; our inability to let

posterity bear a portion of the burden for public works created for their uses and our utter disregard for faithful and meritorious public services in the change of administrations, are the matters which need to be considered and to be altered.

I recommend in the few moments left to me that a commission be selected by your Honorable Body, composed of men learned in the law, of citizens whose experience teaches them the needs of government, and such of yourselves as you may select, to formulate a charter such as is needed, that it be approved by you and that you and the entire press and the entire City demand its passage and that it become a law. By bringing about a charter and a law that would eliminate the evils concerning which we are now so well advised, you will create for yourselves a monument which shall endure so long as your City lasts, and you shall be referred to as we now speak of our unselfish forefathers who built for us, and whose personal ambitions were sunk in love for good government and patriotism. It only remains for me to bid you all farewell.

I now have the honor to present to you my distinguished successor. He has lived long among you. He has watched our growth, he knows our necessities and our wants. Experience and observation have ripened his abilities. He will labor with you unselfishly for the common good, and will, I doubt not, retire from office able to say, "I have struggled in the interests of my City against great odds; I have had no personal ambition, no thought of personal gain, no desire to build up fortune at the sacrifice of duty. The road was oftentimes rough and uneven, but as I look back and see the quagmires and the obstructions which beset my progress, I am satisfied my full duty has been performed to the fullest extent the circumstances would allow." Gentlemen, I now have the pleasure of presenting to you the Mayor of our City, the Hon. Carter H. Harrison.

HEMPSTEAD WASHBURNE.

## PAST COMMISSIONERS OF PUBLIC WORKS.

### WATER BOARD.

- 1851-54—Horatio G. Loomis, Alson S. Sherman, John B. Turner, Prest.  
1854-56—Jas. H. Woodworth, Prest., John C. Haines, George W. Dole.  
1856-58—Orrington Lunt, John C. Haines, George W. Dole, Prest.  
1858-60—Orrington Lunt, Noah Sturtevant, George W. Dole, Prest.  
1860-61—Orrington Lunt, Prest., Edward Hamilton, Benjamin Carpenter.

### SEWERAGE BOARD.

- 1855-59—Jas. D. Webster, Sylvester Lind, Wm. B. Ogden, Prest.  
1859-61—Jas. D. Webster, Prest., Sylvester Lind, Philip Conley.

Water and Sewerage Boards merged, May 6, 1861, into

### BOARD OF PUBLIC WORKS.

- 1861-63—John G. Gindele, Frederick Letz, Benjamin Carpenter, Prest.  
1863-65—Francis C. Sherman, Mayor, *ex-officio* member of the Board.  
1863-67—John G. Gindele, Prest., Frederick Letz, Orrin J. Rose.  
1867-69—Wm. H. Carter, John McArthur, Aug. H. Burley, Prest.  
1869-71—Wm. H. Carter, John McArthur, Prest., Redmond Prindiville.  
1865-69—Wm. Gooding and Roswell B. Mason, members of the Board in matters pertaining to the cleansing of the river.  
1869-71—Wm. Gooding and Edward B. Talcott, members of the Board in matters pertaining to the cleansing of the river.  
1871-73—Wm. H. Carter, Prest., Jas. K. Thompson, Redmond Prindiville.  
1873-76—Louis Wahl, Jas. K. Thompson, Redmond Prindiville, Prest.

Board of Public Works abolished September 18, 1876, and on the same date there was established by the City Council

### THE DEPARTMENT OF PUBLIC WORKS.

- 1876-78—Monroe Heath, Mayor, Acting Commissioner.  
January 7 to May 18, 1879—E. S. Chesbrough, Commissioner.  
May 19, 1879, to October 18, 1881—Charles S. Waller.  
October 19, 1881, to February 4, 1882—Carter H. Harrison, Mayor, Acting Commissioner.  
February 4, 1882, to January 31, 1886—DeWitt C. Cregier.  
February 1, 1886, to June 28, 1886—Carter H. Harrison, Mayor, Acting Commissioner.  
February 1, 1886, to June 28, 1886—W. H. Purdy, Deputy Commissioner.  
June 28, 1886, to April 11, 1887—W. H. Purdy.  
April 12, 1887, to April 15, 1889—George B. Swift.  
April 16, 1889, to April 27, 1891—W. H. Purdy.  
April 28, 1891, to December 24, 1892—J. Frank Aldrich.  
March 14, 1892, to December 31, 1892—E. Louis Kuhns, Deputy Commissioner.

# Department of Public Works

CITY OF CHICAGO.

COMMISSIONER,

J. FRANK ALDRICH.

DEPUTY COMMISSIONER,

E. LOUIS KUHN.

SECRETARY,

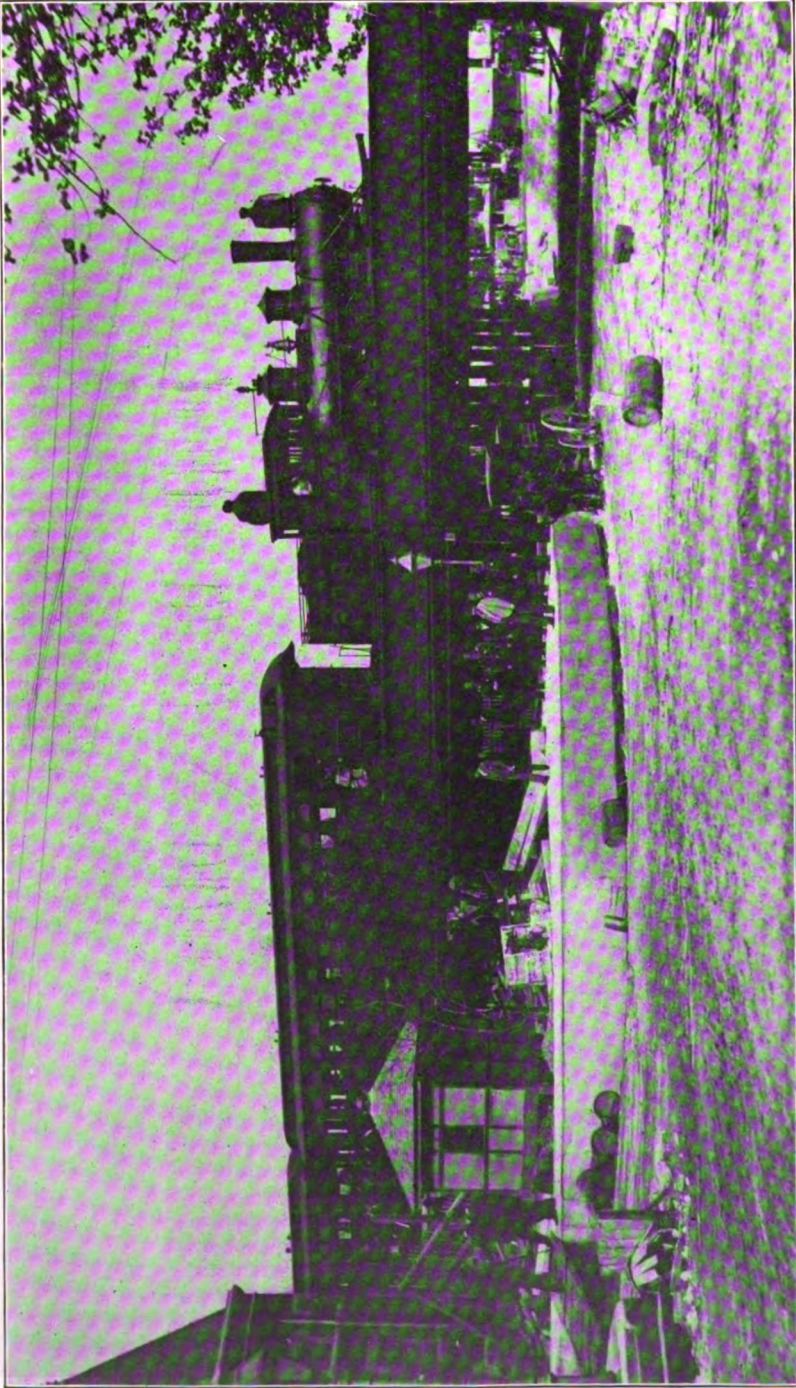
D. S. MEAD.

## Heads of Bureaus.

ENGINEERING.	
CITY ENGINEER, . . . . .	L. H. CLARKE
FIRST ASSISTANT CITY ENGINEER, . . . . .	BERNHARD FEIND
SEWERS.	
SUPERINTENDENT, . . . . .	O. H. CHENEY
STREETS.	
SUPERINTENDENT, . . . . .	JAMES H. BURKE
ASSISTANT SUPERINTENDENT, . . . . .	M. H. GIBSON
SPECIAL ASSESSMENTS.	
SUPERINTENDENT, . . . . .	J. S. SHEAHAN
WATER RATE COLLECTIONS.	
SUPERINTENDENT, . . . . .	WILLIAM LORIMER
ASSISTANT SUPERINTENDENT, . . . . .	EDWARD J. DWYER
MAPS.	
SUPERINTENDENT, . . . . .	R. A. MANSTEIN
DEPARTMENT BOOK-KEEPER, . . . . .	E. F. HAMILTON
<hr/>	
ACCOUNTANT, . . . . .	JOHN FREEMAN
CASHIER, . . . . .	ROBERT A. SMITH
PURCHASING AGENT, . . . . .	W. G. HALKETT
PAYMASTER, . . . . .	JOHN A. MCINTOSH
CHIEF CLERK ENGINEERING BUREAU, . . . . .	JOHN W. COGHLAN
SUPERINTENDENT WATER PIPE EXTENSION, . . . . .	JOHN A. MOODY
BRIDGE ENGINEER, . . . . .	W. M. HUGHES
CHIEF ENGINEER BUREAU OF STREETS, . . . . .	GEORGE W. DORR
SUPERINTENDENT OF SIDEWALKS AND STREET OBSTRUCTIONS, . . . . .	FRANK E. HEMSTREET
CHIEF CLERK BUREAU OF STREETS, . . . . .	ERAST J. BURKERT
CHIEF CLERK BUREAU SPECIAL ASSESSMENTS, . . . . .	M. O. LEWIS
CHIEF CLERK WATER RATES, . . . . .	H. T. CARR
WATER RATE ASSESSOR, . . . . .	THOMAS PATTISON
WATER PERMIT CLERK, . . . . .	H. G. NAPER
SUPERINTENDENT WATER METERS, . . . . .	P. S. STORM
CASHIER, . . . . .	JOHN W. LYONS
REGISTRAR WATER RATES, . . . . .	JOHN M. HUBBARD, JR.
ENGINEER IN CHARGE NORTH PUMPING WORKS, . . . . .	D. H. WELCH
ENGINEER IN CHARGE WEST PUMPING WORKS, . . . . .	JAMES STEWART
ENGINEER IN CHARGE SIXTY-EIGHTH STREET PUMPING WORKS, . . . . .	A. O. PARKER
ENGINEER IN CHARGE CENTRAL PUMPING WORKS, . . . . .	CHARLES McDONALD
ENGINEER IN CHARGE LAKE VIEW PUMPING WORKS, . . . . .	F. D. PARKER
ENGINEER IN CHARGE WASHINGTON HEIGHTS PUMPING WORKS, . . . . .	GEORGE INMAN
ENGINEER IN CHARGE CANAL PUMPING WORKS, . . . . .	RUDOLPH BEISTER
ENGINEER IN CHARGE FULLERTON AVENUE PUMPING WORKS . . . . .	A. D. HOWELL
ENGINEER IN CHARGE WOODLAWN PUMPING WORKS, . . . . .	J. Q. ANNABLE







ELEVATION OF ILLINOIS CENTRAL RAILROAD TRACKS AT FIFTY-SEVENTH STREET (INCOMPLETE).

# COMMISSIONER'S REPORT.

OFFICE OF THE COMMISSIONER OF PUBLIC WORKS, }  
CITY HALL. }

*To the Honorable the Mayor and Common Council  
of the City of Chicago:*

GENTLEMEN:—The last annual report of the preceding administration embraced, in addition to a record of the work of the Department for the year 1890, a comprehensive review and history of public improvements in this City from the date of its charter down to that time, forming a compilation for future reference the value of which can not be overestimated.

The aim of this report shall be to faithfully record the work of the Department for the year just closed, and to briefly call attention to certain defects in existing methods which in the light of past experience should be readily remedied.

Never before in the history of the Department have the public requirements been so exacting as during the two years just passed.

Never has the occasion arisen when greater responsibility rested upon its officials. Never has the public mind been so sensitive to the condition of our City—because of the approach of the World's Columbian Exposition—and never have the exactions of the public as expressed through the daily press been so great as now.

Never before has the Department been more poorly prepared financially to meet the relative amount of work required of it.

The abnormal growth and development of the City during the last four years has been phenomenal. Those who were conversant with the City's needs before annexation have but a faint idea of its requirements now. To thoroughly comprehend this phase of the situation will necessitate a careful examination of the detailed information contained in the reports of the several bureau chiefs attached hereto. The greater part of the work of this Department, particularly in the street, sewer and water main extensions, has been done in the annexed territory, which, in itself, is nearly equal in area to that of the old City. Miles upon miles of new streets, new sewers and new water mains have been constructed, thus adding to the annual burdens in cost of maintenance to an extent out of all proportion to the increase of revenue provided for this purpose.

This and the cheap character, cheap first cost of much of this work, is the key-note to most of the difficulties besetting our street improvements, and is the problem that must be met and settled forthwith if the appearance and character of our streets are to keep pace with the development of the City in other particulars.

#### STREETS.

The street improvements referred to are for the most part but temporary improvements, and are the result of the rapid development of our outlying districts and grow out of the necessity for quickly providing homes for the large influx of population locating in our midst.

One glaring fault in our street improvements is the lack of harmony prevailing throughout the City, not only in the character of the pavements themselves, but in the sidewalk and park improvements abutting them. In the unprecedented haste with which this City has developed care has not been exercised to produce that uniformity of construction so noticeable in older cities, and enough discrimination has not been shown in the selection of pavements suitable to each particular location and to the character of the traffic over them. Not enough regard has been paid to the general interest, to the concrete whole, but the whims of property owners on the street in question, or of the Aldermen representing the district have served to determine these questions and the administrative branch of the City government has had no say in the matter whatever. If the assessed property owner was alone interested it would be different, but the public at large is also an interested party and a joint and reciprocal relation should thus be maintained. For this reason and for the purpose of producing the needed harmony and consistency in construction so essential to a well developed system of improvements the department should be consulted and its recommendations, presumably based upon a careful investigation of all these questions, should be considered.

This plan is followed in some of the older cities and to very great advantage, and I commend it to your thoughtful consideration for adoption here.

It is time, however, for Chicago to consider a better and more permanent character of pavement for her streets, and to that end I would recommend that a commission of engineers be employed to investigate and report upon this whole subject—including the disposition of the underground work which has been such an evil and the cause of so much annoyance to the public. I am well aware of the objections that have been raised to the appointment of these so-called expensive commissions, but am yet of the opinion that too little study and consideration have been given in advance of construction, and that the haphazard method of rushing work of this character has been poor economy for our tax-payers. The street problem is not a whit less in importance than the grade crossing or drainage problems, and all require that same intelligent and scientific consideration which professional men alone are capable of giving it.

In this connection I desire to renew my previous recommendations concerning the improvement of alleys—more particularly in the business center of the City. As a pre-requisite to cleanliness our alleys, like our streets, should be well paved. Their present condition could hardly be worse—dark, filthy and uninviting. Why not reverse this order of things? Pave them from end to end with asphaltum, install arc lights sufficient to maintain them by day and night with illumination equal to that on the streets, keep them clean, call them courts and shop-keepers will soon flock to them and add to the revenue of every property along their line, for our blocks are so long and our stores so deep that in nearly every case a double frontage would be possible with profit to the property owner and to the tenant as well, and in addition to this would grant relief from the badly congested condition of our business center.

This congestion is due largely to two things, first, by reason of the contracted limits of the business district, hemmed in as it is on three sides by water and on the other by railroad terminals, and second, because of the growing tendency on the part of property owners and merchants to take from the public and appropriate to their own uses the space dedicated to the public as a free passage way for pedestrian traffic. This gradual encroachment upon our highways is a serious evil and a menace to the business welfare of the City. The Department of Public Works has waged a vigorous warfare on these obstructions during the last year, and has succeeded in removing many and prevented the placing of more of them; but while these depredations have been effectively checked for the present, it will require constant and eternal vigilance to prevent a renewal of hostilities upon the part of selfish property owners bent upon acquiring space for their own use which rightly belongs to the public. I would recommend that in all cases where applications are made to the Council for permits to incumber or trespass upon the streets or sidewalks, that such applications be submitted to the Commissioner for a report before final action is taken; or better still, to strictly observe the letter of the law as laid down by the present Corporation Counsel in an opinion recently furnished this Department, an extract from which is as follows: "While the streets by law are vested in and belong to the City, they are to be used only for the purposes of passage for the public, and all uses inconsistent therewith are illegal. Even the City Council, in whom is vested the power to regulate and control the use of streets, cannot divert them to a permanent private use. By streets is meant all that is included between the walls of buildings, from building line to building line," etc.

#### ASPHALT PAVEMENTS.

The asphalt paving question is beginning to assume great importance in this City, as it has already done in most of the large Eastern cities, and in every European center of population. The perfect ease with which such

pavements are cleaned, fulfilling, as they do, every requirement of sanitary science, added to their durability and freedom from most of the objections which attach to cheaper improvements, have rendered them very popular on the finer residence streets and boulevards. Even medium class residence and business streets are beginning to consider seriously the matter of adopting this class of improvement, showing the same stages of development in the direction of asphalt pavements as were observed in Berlin eight or ten years ago, and which are now manifest in New York City and in other leading American cities.

Chicago has now reached that state in its development when we are no longer compelled by the necessities of the case to lay the cheapest class of improvements practicable, and from this time on the efforts of public officials and citizens generally should be in the direction of the best and most permanent street improvements, rather than of what is cheapest.

During the period between January 1, 1892, and December 31, 1892, there were laid in this City 61,849.72 square yards of sheet asphalt pavement. This makes a total of 285,293 square yards, exclusive of the boulevards, which are under the jurisdiction of the respective boards of Park Commissioners.

These boulevards contain about 200,000 square yards of asphalt, making a total in the entire City of Chicago of nearly 500,000 square yards of Trinidad sheet asphalt pavements. Substantially all of these pavements are of the genuine Pitch Lake asphalt, obtained from the Island of Trinidad, and are, as a rule, in almost perfect condition, comparing very favorably with the finest boulevards and residence streets of Paris and Berlin, and certainly being in no respect inferior to similar streets in any other American city.

Early in the year this Department conducted an investigation of the greatest importance touching the quality of asphalt which should be used for street paving purposes. Rival contractors set up the contention that the action of this Department in requiring the use of asphalt dug from Pitch Lake, in the Island of Trinidad, in conformity with the ordinances and specifications of the City of Chicago, was in effect a limitation on competition, and that a certain kind or kinds of asphalt which they used, or proposed to use, was equal as a paving cement to that obtained from the Government Pitch Lake in the Island of Trinidad. For the purpose of making the fullest investigation, which the importance of the subject seemed to demand, the Department dispatched a special commissioner to the Island of Trinidad, with instructions to examine into every phase of the asphalt controversy, and to report such facts as might be learned, together with his conclusions. Concurrently the Commissioner of Public Works set into operation other methods of investigation, and personally visited Washington, New York and other leading Eastern cities in this behalf. The

Commissioner examined the reports and conclusions of the municipal authorities having charge of pavements in these cities, and in nearly every other leading city of the United States, and carefully compared their experience and examined into the grounds on which their conclusions were based. An immense amount of expert testimony was received, both in the office of the Commissioner of Public Works in Chicago, and also in New York and in Washington, regarding the nature, texture, constituents and cementing quality, and also the ability to withstand heat and cold, and the effect of high and low temperatures on the various asphalts, as compared with the product of Pitch Lake.

The Commissioner of Public Works also had the benefit of the experience and expert investigations made and entered into by Thos. F. Gilroy, then Commissioner of Public Works, now Mayor, of New York City, and of the reports made to him by Stephenson Towle, Consulting Engineer, on pavements of the City of New York. Owing to the failure of the Eighth avenue asphalt pavement in New York City, laid in 1890, although the asphalt had been analyzed and approved by the chemical experts, Commissioner Gilroy dispatched Consulting Engineer Towle to Trinidad to investigate the question as to whether inferior asphalt had been used. Mr. Towle made an exhaustive report, published as Document "F," under date of January 7, 1892, in the New York Department Reports, in the course of which he said :

"The durability of asphalt pavements depends wholly on the suitability of the asphalt for the purpose. It must be of such a nature as to permanently and thoroughly cement together the sand and limestone powder forming the body of the pavement. It must be elastic, independent of the residuum oil required in making the paving cement, and in no degree brittle. To secure materials that may be relied upon to make the best pavements, it is the practice of the European engineers to designate in the specifications not only the kind of asphalt to be used, but also to name the mines and companies that will be allowed to furnish the material, and only to receive bids from such contractors as have shown ability to furnish the material required, and have done satisfactory work. It has been found necessary to follow this practice in this City as to material for rock asphalt pavements, and the same course should be followed with regard to the Trinidad asphalt pavements. In view of the importance of obtaining the best asphalt I would recommend that the asphalt from the Pitch Lake, at La Brea, Trinidad, be made the standard of quality. This standard is now required by the specifications for asphalt pavements in Washington."

The same conclusion had been reached by the municipal authorities of Washington, Buffalo, Utica, St. Louis, Indianapolis, Baltimore, Rochester and other cities, while the evidence of Prof. Henry C. Bowen, chemist of Columbia College, of the City of New York, Messrs. Ricketts and Banks, of

the School of Mines, Columbia College, and of most of the other experts examined, serve to confirm the conclusions.

In view of all the facts in the case, the Commissioner of Public Works was forced to acquiesce in the opinion so unanimously expressed relative to the superiority of the asphalt obtained from Pitch Lake, in the Island of Trinidad. The specifications of the Department, which had heretofore referred to Pitch Lake asphalt as the standard of quality, were allowed to stand without modification, and contractors have been required to strictly conform with them.

During the progress of the investigation already referred to, an injunction against this Department was asked by a contractor to restrain the Commissioner of Public Works from awarding a contract for Pitch Lake asphalt when said contractor had made a lower bid for what is known as "Land" asphalt. The case was tried before Judge Tuley and attracted considerable attention. The court, however, fully sustained the Commissioner in his acts and dissolved the injunction.

It is our opinion that all pavements should be laid upon a concrete base. Such construction insures a reliable and homogeneous foundation on which to construct the wearing surface. The great variety of densities encountered in our sub-grades demands something more substantial than planks or uncemented stones. Fair results are obtained by the use of domestic cements in the making of such foundations, but there can be no doubt that the use of Portland cement would vastly improve such construction. The substitution of Portland cement would considerably increase the cost of the work, but the better results obtained would undoubtedly warrant it.

#### SIDEWALKS.

The leading feature of the year in the Sidewalk Department has been the investigation and exposure of certain irregularities, which may serve as an instructive example of the methods adopted by contractors who may be disposed to take advantage of the weakness or incompetency of City employes. For some time complaints as to the quality of material and workmanship employed in the construction of wooden sidewalks had been coming in from various quarters. By far the greater proportion of these complaints came from sections of the City covered by the Demling contracts. These complaints had been referred to the Sidewalk Department for investigation and were supposed to have received proper attention, when Superintendent Durant, of this Department, in resigning his position, made the remarkable statement that he found it utterly impossible to enforce the regulations of the Department. According to his statement Demling in particular was showing an utter disregard of specifications in the execution of his contracts. The gravity of the situation thus disclosed determined the Commissioner to institute a systematic and thorough investigation of all

wooden sidewalk contracts, commencing with Demling but extending to the work of all contractors for this class of sidewalk. To make this investigation it was found necessary to employ lumber experts, and here an unexpected difficulty presented itself. It appeared that it had become so established a practice to use cull lumber in the construction of city sidewalks that the mills had got into the habit of shipping to Chicago as "Chicago Sidewalk Plank" lumber for which previously there had been no market. This economy to the lumber men tended to blind the eyes of some of the lumber dealers to the fact that the gain thus effected by them in the sale of a practically worthless material was a direct loss to the property owners for whose improvement such material was used.

The contractor using this class of lumber would, it is true, be able to make his price sufficiently low to shut out honest competition, but the percentage thus saved to the property owner in the amount of his assessment was greatly outbalanced by the fact that the walks thus laid would have to be replaced three times during the time that an honestly constructed walk would last.

This necessity for constant renewal was of course an additional incentive to the powerful cull lumber interest which had been created through the dishonesty of City contractors, and which now apparently proved a very considerable obstacle in the securing of competent lumber graders for the inspection proposed by this Department.

These experts were, of course, dependent largely upon the lumber trade for employment. To secure the men finally selected for our inspectors, it was found necessary to shield their identity. On the other hand, these inspectors were not given the names of the contractors whose work they were to investigate. The reports obtained from these men were intelligent, systematic and conscientious, and more than confirmed the statement of Mr. Durant. In brief, it was found that for a long period little, if any, lumber had been used of grade above No. 2, and a very large percentage was No. 3 or cull. In many cases the specifications were utterly ignored as to width of plank.

After becoming convinced of the true situation of affairs, the offending contractor referred to was debarred from further competition of the Department, and vouchers then pending, but not issued, were canceled.

From this decision the contractor appealed to the Mayor for arbitration which, against the protests of this Department, was finally granted. The grounds taken by the Commissioner were that arbitration was applicable only to cases where a reasonable doubt or difference of opinion might exist, but not to matters of actual and ascertained fact; that it was not competent, in the present case particularly, for arbitrators to modify the fact that wormy and heart and sap cull lumber had been used by the dismissed contractor in defiance of his contract obligations, consequently that an



arbitration could not in any case add to the strength of the City's case, but on the contrary was very likely to be manipulated against the City, owing to the fact that the cull lumber interest might in case of an arbitration become aware of the identity of the graders who might be employed by such a board, and thus be able to bring strong trade pressure to bear upon them.

This investigation suggests, first, that assessments levied for the building of sidewalks are not adequate to provide for a proper character of construction. That better defined specifications for a higher grade of walk should be adopted, and that experts only should be appointed for inspection purposes. It ought not to be necessary to make the further recommendation that contractors who, in any class of work done for the City, have been found palpably guilty of ignoring specifications should be debarred from doing any work whatever for the municipality.

From the detailed statements furnished by the Street Department it will be seen that Chicago has again passed the 100-mile point in the annual amount of new street paving, bringing the grand total of paved streets within the corporate limits to date up to nearly 900 miles, while the amount of new sidewalk laid during the year was very nearly 800 miles. From these figures some idea may be gained of the annual sum required for maintenance—a much greater amount than can be provided by the present system of taxation and assessment.

From the statements furnished by the Special Assessment Department it will be found that the total assessments levied in the year just passed amounted to fourteen and one half million dollars—an increase of nearly six millions over the year previous, and over thirteen millions greater than they were ten years ago, in 1882.

#### WATER SUPPLY.

The reports furnished by the City Engineer show the amount of water pumped during the year to have reached the enormous total of seventy-one billion gallons, or a daily average of one hundred and ninety-four million gallons which, on the basis of population given by the school census taken during the year (1,450,000), would give for each resident an average of 134 gallons per day.

The completion of the four-mile water tunnel just at the close of the year marks an important epoch in the history of the water supply of Chicago, and insures to its people for a long time to come an abundant quantity for all purposes. The location of this tunnel was most unfortunate, both on account of the enormous cost of construction, and because of the direction of the intake from the mouth of the harbor. The completion of the Drainage Canal, however, will remedy the latter defect, and with the completion of the Lake View and the Hyde Park tunnels and the further extension of the old two-mile tunnels, Chicago will be able to boast of the finest water

supply, both in quantity and quality, of any of the large cities of the world. The current year will see the completion of the two former, and in view of this I would recommend that steps be immediately taken to provide for the extension of the latter tunnels.

#### CANAL PUMP WORKS.

Under a resolution passed by the State Legislature in 1872 it was provided, among other things, that the City of Chicago should construct pumping works of a capacity sufficient to cause a flow of not less than 60,000 cubic feet of water per minute from the river into the canal.

The main features of that resolution, so far as the City is concerned, are as follows: " \* \* \* Provided, that the Canal Commissioners shall first confer with the Mayor or other proper authorities of the City of Chicago, and if said City shall proceed without delay to cause a flow into the canal from the Chicago River sufficient to dilute and purify the waters, \* \* \* said flow to be not less than 60,000 cubic feet per minute, etc., \* \* \* and, provided further, that if the said City of Chicago shall erect pumping works for the purpose of causing such flow as aforesaid, the Canal Commissioners shall allow the said City to erect said pumping works upon the canal lands in Bridgeport, and said City shall support, control and manage said works subject to the direction of the Canal Commissioners relative to the amount of water to be received into the canal, from time to time, as the exigencies of the canal may require, but at the expense of the said City of Chicago," etc.

In accordance with said resolution pumps of the capacity indicated (when new) were erected at this point, but in late years by reason of wear and tear they have greatly deteriorated in condition and efficiency, and notwithstanding constant and extensive repairs, they have been unable to pump to exceed 40,000 to 45,000 cubic feet of water per minute, and at times, when one or more of the pumps were undergoing repairs, the total amount of water pumped was reduced to 35,000 cubic feet or less. This condition of things caused great complaint along the line of the canal which resulted in the calling of a conference which was held in the Mayor's office in this City, at which were present the city officials of Joliet, the Canal Commissioners, Drainage Trustees and various officials of this City.

On January 18, 1892, I called the attention of the Council to the necessity for new pumps at these works and after due consideration this Department was authorized to contract for same. After considerable investigation of the subject it was finally determined to adopt the Courtwright undulating pumps for this purpose. These pumps are being made on an entirely new mechanical principle and it is claimed for them that they will throw a large quantity of water or sewage with comparatively little power. The guaranteed capacity of the four sets of two pumps each is 100,000 cubic feet per

minute, with practically the same horse-power used with the old pumps giving 35,000 to 45,000 cubic feet per minute. They are not to be paid for until careful tests shall show that they fulfill the requirements provided for in the specifications.

Provision should be made by the Canal Commissioners for raising the banks of the canal at various places—otherwise it is doubtful if it will prove feasible to pump more than the 60,000 cubic feet provided for in the resolution of the State Legislature, while the circumstances now demand a much greater flow than formerly.

#### BRIDGES AND VIADUCTS.

Plans have been prepared and work has begun upon several bridges and viaducts during the year, the most important of the former being across the South branch at Halsted street, and of the latter the large viaduct over the Milwaukee & St. Paul, Pan-Handle and North-Western tracks at North Halsted street. Objection having been made by the Drainage Board and the vessel interests to the construction of a permanent double road-way pivot bridge at this point, for various reasons connected with the plans of the former, and with the increased difficulties of navigation threatened to the latter, and the War Department of United States Government having sustained the latter objections and having declined to approve of such plans, this Department found it necessary to look about and devise some plan that would meet these objections and yet, in obedience to the demands of the land interests of that portion of the City, provide a double roadway structure at this point. The only plans presented for the Department's consideration were the Harmon Jack-Knife and the Waddell Lift Bridges, and after careful consideration of the subject by the Commissioner and City Engineer the latter was adopted. Elsewhere will be found a detailed description of this interesting structure which, if as successful in its practical operation as it promises to be, bids fair to revolutionize the plan of bridge construction for Chicago, and chiefly because of the great boon it will be to the lake shipping interests, which have for so long been subjected to unwarranted hardships in connection with the navigation of our river. Upon the advice of the City Engineer the old Halsted street viaduct was condemned and closed to traffic in July last. This structure had been in existence for a little over twenty years, which would seem to indicate the fair average life of these structures under the care and control of the City. The annual expense of maintaining this class of structures is growing beyond the revenues available for their proper care. Not more than one-half the sum annually estimated and called for by the Department for this purpose is ever granted by the Council, and it would seem to be an opportune time to call upon the railroads to provide for the cost of their maintenance as well as for their construction. Doubtless they would be willing to do so.

## HALSTED STREET LIFT BRIDGE.

This bridge will consist of a 130-foot span, about 58 feet wide, weighing about 550,000 pounds, counterweighted and supported by two towers about 200 feet high. The span is arranged to lift vertically so as to give a clearance of 155 feet, the time required for the extreme lift being about one minute. The operating machinery will be placed beneath the north approach. Each main tower column will be supported by a pier resting on bed rock, sunk by the pneumatic process, and each rear tower column by a pier resting on grillage and piles. The machinery house and the retaining walls also are to be supported on grillages and piles. At the top of each of the two towers are to be four wheels, 12 feet in diameter, over which will pass the thirty-two  $1\frac{1}{2}$  inch Hercules steel cables that will support the span and attach to the counterweights. The latter will work in vertical guide-frames.

The weight of both bridge and cables will be exactly counterbalanced by means of water ballast and chains. There will be bracing overhead between the towers to keep the latter in adjustment, and in order to provide for any slight settlement of piers there will be an adjusting screw at the foot of each rear column.

The power required to raise and lower the bridge will be supplied by two steam engines, either of which will be capable of doing the entire work, operating on wire cables wound upon drums 6 feet in diameter. At top of towers and bottom of span will be hydraulic buffers capable of bringing the bridge to rest without shock, from its greatest velocity.

Wind pressure is taken care of by means of rollers.

The operating house will be at middle and top of the span, and there will be a peeper to tell when the span has cleared the masts of an approaching vessel.

The following are some of the principal advantages claimed for this style of structure :

*First.* A lift bridge gives a large single channel instead of the two smaller channels afforded by a rotating draw, and in this particular is much more favorable to the interests of navigation.

*Second.* There are no land or property damages attendant on the use of a lift bridge as there usually are in the case of a swing bridge, for the reason that the entire structure can be built within the limits of the street.

*Third.* Vessels can run up close to a lift bridge and use the docks in the immediate vicinity, which they cannot do in the case of a rotating draw.

*Fourth.* Compared with a bascule or a jack-knife draw, the lift bridge has the advantages of much greater rigidity and the practicability of using a paved roadway.

## ELEVATED TERMINALS.

The experience of this Department during the past two years leads us to believe the time to be ripe for some comprehensive plan for doing away with

steam railroad grade crossings. From the nature of things no one general plan or system will prove applicable to every line running into Chicago. The North-Western and the Burlington companies, for instance, should hardly be expected to elevate their tracks at all inside of the district now provided with viaducts. To do this would necessitate a radical reconstruction on the part of the City of about twenty bridges and the destruction of some thirty viaducts, involving an enormous expenditure and doing great damage to property owners whose warehouses have been made to conform to the viaduct system as it now exists.

With the east and west tracks of these companies—at Kinzie street and at Sixteenth street—we would advocate a continuance of the plan begun years ago and call for the construction of viaducts at every third street, with approaches to the same laterally, a stone wall running the entire length on both sides of the right of way would close the remaining streets, and these structures should be built and *maintained* entirely at the expense of the several railroad companies.

The Lake Shore and the Rock Island railroad companies have at various times evinced a willingness to elevate their tracks, something on the plan inaugurated and successfully carried out by the Illinois Central company, viz.: partial elevation with a corresponding depression of the streets crossing their right of way.

This plan as applied to the two former companies did not meet with your approval at the time the matter was under consideration, but we are of the opinion that now, in the light of the success in the case of the latter named company, negotiations should be re-opened with the former on the lines previously considered and the project pushed to completion. One great objection raised by railroad men to elevated terminals to the full height on iron or steel structures is the large cost for maintenance to which they claim they would be subjected. However this may be, an imperative demand exists for the complete abolishment of grade crossings in this City, and viaducts, except in such cases as we have referred to, should not be further encouraged or tolerated. It may be found desirable in individual cases to sink the tracks, but these are questions which it is believed can be best settled by conference of the City authorities with the individual companies separately. If the plan proposed, of indiscriminately requiring all railroad tracks to be elevated to the full height of sixteen feet is insisted upon, the grade crossing question with all its attendant horrors, in the opinion of this Department, will be set back at least twenty years.

#### CIVIL SERVICE.

Before closing this report I desire to give expression to some ideas concerning the civil service, growing out of the experience of the past two years in this Department. In a word, the spoils system, as it is called, has no

proper place, if it has any place at all, in a purely business branch of the City government, such as is the Department of Public Works, and yet, here, of all places, is where it has reached the state of perfection, and there is but one official, and he the chief executive of the City, who has the power to blot it out. It is with no desire to shield any official of this Department, nor to detract from the splendid service rendered by some of the veterans on its rolls, that this reference to the subject is made, but rather to recognize officially a condition which exists, in the hope that by continuous agitation of the subject the evils may eventually be eradicated.

These evils are for the most part those growing out of constant rotation in office. Without going into details, what business corporation expecting efficient service in its affairs would think of employing responsible help for temporary service, such as most employes of the City render to the municipality? There is nothing new in this proposition, but it serves for the illustration.

Another and perhaps more vicious evil of the spoils system, is in the employment of help, not because of fitness for the work that is to be done, but because that employment is desired purely for political service rendered. To apply the same proposition as in the former case, what business man would succeed if his help was selected by someone else and for some reason foreign to the question of personal fitness for the work required of him? This is all there is to the proposition, and yet it is no exaggeration when applied, not to all cases, but to very many in the service of the City.

From some of the older cities of this country we may learn a lesson in civil service reform. Such cities as Brooklyn, Buffalo, Boston, Providence, and even New York, have adopted civil service regulations, under which appointments are for the most part made, and where *tenure of office* depends upon individual merit, and merit alone, without regard to political party or creed; so that if comparisons in municipal management are made with these cities, and show to Chicago's disadvantage, the reason for it is not difficult to divine.

An improved civil service, based upon merit alone, very much like that inaugurated by Mayor Low, of Brooklyn, in 1884, and which has been in successful operation from that time to this, is very much needed in the Department of Public Works in this City and would, in our judgment, if conscientiously supported, lead to an annual saving of many thousands of dollars and produce better and more effective service in every one of its bureaus. I would respectfully call your attention to the report of the Civil Service Commission of Brooklyn for 1892, and to a recent letter of the Commissioner of Public Works of that city, on file in this Department, in which he says: "The civil service system has worked admirably here and I do not think any considerable number of persons of any party would be willing to see it abolished."

## EXTENSION OF WATER SYSTEM.

60.32 miles of water pipe, from four to thirty-six inches in diameter, were laid during the year (4.76 miles being exchange), making a total of 1,402.31 miles now laid in the City.	
645 new water valves were added ; total in place.....	10,384
688 new fire hydrants were added ; total in place.....	14,099
Total number of fire cisterns.....	55
*19,362 new house service taps were added, making a total of.....	200,760
*19,362 new house service pipes were added, making a total of.....	200,760
The number of service taps inserted in water mains, including retaps and taps inserted for enlarged service pipes to buildings previously supplied, is.....	21,572

## EXTENSION OF SEWERAGE SYSTEM.

There were constructed during the year 104.026 miles of brick and pipe sewers, from nine inches to six and one-half feet in diameter, making a total of.....	992,346
3,866 new catch-basins were added, making a total of.....	34,334
3,714 man-hole chambers were added, making a total of.....	37,440
Old catch-basins were raised to grade, numbering.....	3,462
Old man-hole covers raised to grade, numbering.....	3,656
Old catch-basins and man-holes repaired, numbering.....	352
Number of catch-basins cleaned.....	12,231
Sewers cleaned to extent of.....	346 miles
House drains laid amounting to.....	6,834 miles

## STREET IMPROVEMENTS.

There were 121.45 miles of street improved during the past year.

There were 256,761 square yards of street pavement repaired.

Total streets in the City.....	2,369.60 miles
Total streets paved in the City.....	878.70 miles
New sidewalks constructed.....	799.65 miles
Sidewalks repaired.....	134.33 miles
Total sidewalks in City.....	3,931.43 miles
Streets cleaned.....	10,922.66 miles
Number of aprons, culverts, crossings, etc., built.....	8,749
Sidewalk intersections constructed....	2,351
Number of street lamps (gas).....	29,997
Number of street lamps (oil and gasoline).....	10,748
Number of street lamps (electric).....	1,294

\*These amounts do not include the water service pipes and taps inserted in the annexed districts previous to annexation, no record having been kept for that purpose.

Total number of street lamps in the City.....	42,039
Street lamps repaired.....	10,042
Number of buildings removed.....	1,607

## MAPS AND PLATS MADE.

For street improvement assessments.....	1,008
For opening, widening and vacating streets and alleys.....	666
For sidewalks.....	1,179
For Street Engineer's estimates.....	1,205
For lamp posts.....	2,526
For law department.....	938
For survey maps.....	266
For miscellaneous purposes.....	126
Total.....	<u>7,914</u>

## TOTAL ASSESSMENTS PREPARED.

For wooden block pavement.....	795
For miscellaneous street and alley improvement.....	109
For private drains.....	375
For water service pipes.....	434
For street and alley openings.....	61
For plank sidewalks.....	563
For stone and cement sidewalks.....	137
For gas lamps.....	167
For water mains.....	34
For street sprinkling.....	3
For lamp post connections.....	7
For dredging and docking.....	1
For Dyott Champion lamps.....	2
For gasoline lamps.....	28
For sewers.....	331
For Boulevard lamps.....	25
TOTAL.....	<u>\$ 2,982</u>



## MISCELLANEOUS.

## SPECIAL IMPROVEMENTS.

Erecting engines at Seventy-third street sewerage pumping station.  
 Special cast iron water pipe for Sixty-eighth street pumping works.  
 Erecting Gaskell engine at Lake View pumping works.  
 Temporary intake and crib at Lake View tunnel.  
 Sprinkling streets of Thirty-first ward.  
 Extension of Sixty-eighth street water tunnel.  
 Dredging the Chicago river and its branches.  
 Paving Eighteenth street viaduct and approaches.  
 Constructing end pier and abutment Indiana street bridge.  
 Paving roadways and approaches of Ogden avenue viaduct.  
 Constructing sub-structure of North Halsted street viaduct.  
 Constructing girder span Indiana street bridge.  
 Folding bridge over river at Canal street.  
 Constructing steel girders and beams four-mile crib.  
 Constructing North Halsted street viaduct.  
 Erecting engines at Seventieth street sewerage pumping station.  
 Erecting pumps at sewerage pumping station Stony Island avenue and  
 Ninety-fourth street.  
 Constructing super-structure of North Clark street viaduct.  
 Constructing building at four-mile crib.  
 Constructing sub-structure and approach Belmont avenue bridge.  
 Erecting Seventieth street sewerage pumping station.  
 Repairing breakwater between Fifty-first and Fifty-third streets.  
 Tug boat for winter service.  
 Constructing lift bridge over the river at South Halsted street.  
 Brass castings.

## CONTRACTS.

Contracts were entered into by the City for public improvements and various classes of material under the immediate supervision of this Department, incurring an expenditure of \$7,051,380.91, as follows :

388	Contracts for street and alley improvement, at a cost of...	\$2,663,198 95
670	Contracts for building sewers, catch-basins, etc., aggregating.....	2,058,690 76
198	Contracts for water service pipe, costing.....	160,630 00
204	Contracts for private drains, aggregating.....	99,698 50

13	Contracts for coal for electric light plant, pumping stations, City Hall building, Fire and Police Departments, bridges, etc., aggregating.....	\$ 390,593 23
5	Contracts for constructing bridges, aggregating.....	266,354 14
3	Contracts for constructing viaducts, aggregating....	84,296 23
3	Contracts for paving approaches to viaducts.....	9,355 74
3	Contracts for pumping engines and foundations for Seventy-third street sewerage pumping station .....	52,055 00
2	Contracts for pumping engines and constructing Seventieth street sewerage pumping station .....	44,499 00
7	Contracts for engines, constructing building, foundations for engines, brick chimney, cut stone, iron roof and copper and galvanized iron work, Lake View pumping station...	101,995 80
2	Contracts for boilers and pumping machinery at Canal pumping works.....	110,712 00
1	Contract for pumps at sewerage pumping station, Stony Island avenue and Ninety-fourth street.....	10,000 00
3	Contracts for iron doors, cast iron water pipe and concrete floors, Sixty-eighth street pumping station .....	60,186 85
1	Contract for iron stairs at Fourteenth street pumping station.....	564 00
1	Contract for temporary intake, Lake View tunnel.....	49,200 00
1	Contract for extension of Sixty-eighth street water tunnel	200,000 00
1	Contract for shaft and crib shore intake, Sixty-eighth street water tunnel.....	10,000 00
5	Contracts for parapet wall, steel girders and beams, brick arches and concrete floors, iron roof and staircase and building on four-mile crib .....	31,706 00
6	Contracts for oak and pine lumber for Sewer Department, bridges, viaducts and pipe yard.....	17,101 08
5	Contracts for dredging Chicago river, aggregating.....	81,184 75
1	Contract for corporation ferrules....	9,981 72
1	Contract for special castings and cast iron water pipe....	15,000 00
1	Contract for brass castings.....	4,600 00
3	Contracts for cast-iron man-holes and catch-basin covers, rings, stop-cocks and hydrant chambers.....	25,603 86
1	Contract for sweeping and cleaning streets.....	129,276 91
1	Contract for sprinkling streets of Thirty-first ward.....	12,000 00
3	Contracts for teaming for Water and Sewer Departments, aggregating .....	82,150 16
1	Contract for lamp posts.....	31,680 00
1	Contract for boulevard lamps and globes.....	4,947 00
1	Contract for gasoline.....	25,802 00

1 Contract for glass for street lamps.....	\$ 5,200 00
5 Contracts for constructing fire engine houses, aggregating	29,660 00
1 Contract for extension of fire engine house, Sixty-second Place and I. C. R. R. ....	2,300 00
1 Contract for constructing engine house and police station, Wentworth avenue, near Sixty-fourth street.....	5,378 00
2 Contracts for cast iron water pipe.....	118,834 23
1 Contract for piling and timber outlet to Fifty-first street sewer .....	1,627 00
1 Contract for iron discharge pipe from Woodlawn sewerage pumping station to Fifty-sixth street sewer.....	18,000 00
1 Contract for repairing breakwater between Fifty-first and Fifty-third streets.....	10,000 00
1 Contract for tug service.....	17,318 00
Total .....	<u>\$7,051,380 91</u>

## FINANCIAL.

Statement of the sum appropriated by the City Council, together with various amounts from other sources, to be expended in public improvements under the supervision of the Department during the year 1892:

Balance January 1, 1892, to credit of water, sewerage, general improvement and City Hall funds.....	\$ 69,180 50
From appropriation for 1892.....	2,169,368 17
From rent of Rookery lot.....	35,000 04
From water revenue, including tapping permits and delin- quents .....	2,738,434 10
From advances to lay water mains.....	132,540 82
From hydrant wrenches.....	685 00
From advances to construct sewers.....	1,730 31
From drain permits and drain layers' licenses.....	79,759 40
From deposits on sundry sewer improvements .....	8,531 58
From special assessment sewer inspection.....	162,029 60
From house-moving permits.....	4,303 00
From deposits for street permits.....	72,493 50
From deposits for sundry improvements, special assessment and other funds.....	713,121 59
From special assessments.....	14,505,701 79
Overdraft .....	131,425 72
Total.....	<u><u>\$ 20,824,305 12</u></u>

Of this amount expenditures have been made from the sewerage and general appropriations and from funds of annexed territory, as follows:

For bridges and viaducts, dredging river, street cleaning and repairing, public buildings and parks, Fullerton avenue and Canal pumping works, improving street intersections, sewers, catch-basins, salaries, labor and material..	\$ 2,915,297 40
For extension of water pipe system.....	513,389 84
For new lake tunnel.....	218,906 12
For Lake View water tunnel.....	124,514 13
For new shore inlet extension.....	48,756 92
For north breakwater crib.....	11,508 22
For Sixty-eighth street pumping works.....	45,042 87
For lake crib (old).....	30,594 14
For new lake tunnel crib.....	11,009 20
For Ashland avenue tunnel.....	1,719 66
For Washington Heights pumping works.....	7,637 02
For Sixty-eighth street tunnel extension.....	98,639 81
For Lake View crib.....	49,615 38
For Lake View pumping works .....	100,189 01
For Central pumping works.....	4,633 59
For South Side pumping works (Fourteenth street).....	51,042 34
For maintenance of water system, operating pumping works, cost of assessing and collecting water taxes, material on hand, etc.....	1,325,391 70
For water bonds and interest paid.....	722,947 50
For advances refunded.....	37,768 48
For street improvements, street openings, sidewalks, sewers, private drains, water service pipes and lamp posts.....	14,505,701 79
Total.....	<u>\$20,824,305 12</u>

#### WATER SUPPLY SYSTEM.

This system has received a large increase during the past year, as is shown by the City Engineer's report. The engine capacity now is as follows:

Lake View pumping station, 31,500,000 gallons per twenty-four hours.  
 North Side pumping station, 99,000,000 gallons per twenty-four hours.  
 Central pumping station, 36,000,000 gallons per twenty-four hours.  
 14th Street pumping station, 54,000,000 gallons per twenty-four hours.  
 West Side pumping station, 60,000,000 gallons per twenty-four hours.  
 68th Street pumping station, 77,000,000 gallons per twenty-four hours.

TOTAL.....357,500,000 gallons per twenty-four hours.

All these engines draw their water from the lake through tunnels. There is, besides, a small pumping station in Washington Heights which draws its water from an artesian well.

### TUNNELS.

The tunnel capacity is as follows :

Lake View tunnel, 72,000,000 gallons per twenty-four hours.

Two-mile tunnels, 150,000,000 gallons per twenty-four hours.

Four-mile tunnel, 140,000,000 gallons per twenty-four hours.

68th Street tunnel, 72,000,000 gallons per twenty-four hours.

TOTAL.....434,000,000 gallons per twenty-four hours.

The appointments of the four-mile crib are only temporary and incomplete as yet, but all the contracts have been let for full completion, which will be accomplished during the coming season.

There are, besides, two emergency or shore inlet tunnels, one opposite North Side pumping station and one opposite Sixty-eighth street pumping station.

If the flow from these two were joined to that of the regular or main tunnels there would be total water tunnel capacity of more than 500,000,000 gallons per 24 hours.

#### FOUR-MILE TUNNEL.

The four-mile tunnel has been carried to successful completion during the year, and has been in use since September 7.

#### LAKE VIEW TUNNEL.

The Lake View tunnel was finished to a point about 6,000 feet from shore, and a temporary inlet was constructed there, which has been in use since August 6.

#### THIRTY-FIFTH STREET TUNNEL.

The Thirty-fifth street water pipe tunnel, under the South fork of the river, which affords connection of the new Fourteenth street pumping station with the Stock Yards district, was given over to use during the first part of the year.

#### SIXTY EIGHTH STREET TUNNEL EXTENSION.

Work on the extension of the water tunnel off Sixty-eighth street dragged lamentably during the year 1892, but at present is advancing at a most satisfactory rate.

#### LAKE VIEW PUMPING STATION.

A new building has been erected at the Lake View pumping station, completely enveloping the old building ; the roof is nearly completed, and soon the old building inside will be removed.

The capacity of the station has been increased by a new 12,000,000 gallon Gaskill engine, in operation since the middle of the year.

SIXTY-EIGHTH STREET PUMPING STATION.

The Hyde Park building at the Sixty-eighth street pumping station has received a handsome addition, housing two new 12,000,000 gallon Gaskill engines (which will supply the World's Columbian Exposition through independent connections), and another 12,000,000 gallon Gaskill engine, which has been transferred from the "Lake" building. The three engines in that addition have been in operation for some time.

WASHINGTON HEIGHTS PUMPING STATION.

The small Washington Heights pumping station, fed by an artesian well, as mentioned above, has received an entirely new brick building and additional pumping power.

PIPE SYSTEM.

Water pipes were laid during the year as follows :

Four (4) inch.....	7,704 feet.
Six (6) inch.....	205,369 feet.
Eight (8) inch.....	77,246 feet.
Twelve (12) inch.....	11,458 feet.
Sixteen (16) inch.....	1,690 feet.
Twenty-four (24) inch.....	13,449 feet.
Thirty (30) inch.....	24 feet.
Thirty-six (36) inch.....	1,564 feet.
Total.....	318,504 feet.

The whole being equal to 60.32 miles. Small pipe taken up and abandoned 4.77 miles; net pipe added to the system during the year 55.55 miles; making a total of 1,402.30 miles of water mains laid within the city limits.

Fire hydrants placed in position during the year.....	693
Net number of hydrants added to the system.....	688
Total number of fire hydrants now in use.....	14,099
Stop valves put in place during the year.....	649
Total number now in use.....	10,384

WATER METERS AND HYDRAULIC ELEVATORS.

Number of new meters put in during the year.....	498
Number of old meters removed.....	303
Net increase.....	195
Total number of meters now in use.....	4,326
Number of city meters removed and replaced by new ones.....	183
Total number of meters repaired and examined.....	4,505

The revenue derived from water measured by these meters and hydraulic elevators for the past year amounts to \$795,292.72, an increase of \$78,224.67 over the amount collected from the same source last year.

## WATER WORKS RECEIPTS AND EXPENDITURES FOR 1892.

## RECEIPTS.

Water rates collected (including delinquents).....	\$2,569,952 28
Water service cocks (permits and plumbers' licenses).....	88,458 45
Water meters, labor, etc., for private parties.....	71,308 30
Rent of Rookery lot.....	35,000 04
Advances to lay water pipes.....	132,540 82
Hydrant wrenches.....	685 00
Old material sold.....	8,715 07
Total .....	<u>\$2,906,659 96</u>

## EXPENDITURES.

For extension of water pipe system.....	\$ 513,310 96
For water works repairs.....	358,045 32
For water service pipe and tapping department.....	71,934 62
For meter and private work.....	98,970 77
For North pumping works.....	152,096 48
For West pumping works....	112,179 43
For Central pumping works.....	54,697 51
For South Side pumping works (Fourteenth street).....	90,805 33
For Sixty-eighth street pumping works.....	134,229 42
For Lake View pumping works.....	135,633 98
For Washington Heights pumping works.....	11,625 55
For new lake tunnel.....	218,906 12
For Lake View tunnel.....	124,514 13
For Sixty-eighth street tunnel extension.....	98,639 81
For new shore inlet extension.....	48,756 92
For lake tunnel crib (old).....	42,204 85
For north breakwater crib.....	11,508 22
For Lake View crib.....	49,615 38
For new lake tunnel crib.....	11,009 20
For Ashland avenue tunnel.....	1,719 66
For Water Works shop.....	4,802 81
For Water Works stable.....	1,271 32
For miscellaneous.....	5,258 99
For water fund investment refund.....	666,000 00
For water loan interest.....	42,047 50
For water loan bonds.....	14,900 00
For advances for laying water mains refunded.....	37,768 48
For advances for hydrant wrenches refunded.....	440 00
For salaries and office expenses.....	290,413 17
Total .....	<u>\$3,403,305 93</u>

Total cost of Water Works of the City to Dec. 31st, 1892, is as follows:

Cost up to May 6, 1861, when the works were transferred from  
the Board of Commissioners to the Department of Public  
Works.....\$1,020,160 21

## EXPENDITURES SINCE 1861.

Cost of water pipe (including labor).....	\$10,916,049 06
Cost of North pumping works.....	918,573 14
Cost of West pumping works.....	896,849 37
Cost of Sixty-eighth street pumping works.....	64,809 54
Cost of Central pumping works.....	369,711 66
Cost of Washington Heights pumping works.....	7,637 02
Cost of Lake View pumping works.....	100,189 01
Cost of South Side pumping works (Fourteenth street).....	492,695 68
Cost of new lake tunnel.....	979,781 69
Cost of Lake View tunnel.....	351,834 67
Cost of new lake shore inlet extension.....	146,459 04
Cost of north breakwater crib.....	11,508 22
Cost of lake tunnel crib (two miles).....	100,913 24
Cost of new lake crib.....	376,869 32
Cost of Lake View crib.....	49,615 38
Cost of Sixty-eighth street tunnel extension.....	98,621 81
Cost of Ashland avenue tunnel.....	17,453 36
Cost of first lake tunnel.....	464,866 05
Cost of second lake tunnel.....	415,709 36
Cost of lake crib protection.....	149,431 63
Cost of land tunnel to West pumping works.....	542,912 63
Cost of new land tunnel.....	284,380 04
Cost of lake shore inlet.....	42,871 17
Cost of new lake shore inlet.....	89,474 17
Cost of Water Works shops.....	25,551 73
Cost of Water Works stock.....	29,318 00
Cost of Water Reservoir fence.....	1,702 87
Cost of addition to stable.....	1,019 48
Cost of real estate for sites of pumping works.....	206,972 35
Cost of works annexed territory.....	1,160,164 24
Cost of Jefferson street tunnel.....	15,968 17
Cost of breakwater.....	28,181 93

Total cost of entire works to December 31st, 1892.....\$20,378,255 24



## Paid for as follows:

From general taxes.....	\$ 2,713,878 53
From City of Chicago water loan bonds, 6 per cent.....	132,000 00
From City of Chicago water loan bonds, 7 per cent.....	2,026,000 00
From City of Chicago water loan bonds, 4 per cent.....	1,130,500 00
From City of Chicago water loan bonds, $3\frac{65}{100}$ per cent.....	332,000 00
From City of Chicago water loan bonds, $3\frac{1}{2}$ per cent.....	333,500 00
From City of Chicago water loan bonds, canceled.....	1,570,800 00
From Hyde Park water loan bonds, 5 per cent.....	50,000 00
From Hyde Park water loan bonds, 7 per cent.....	384,000 00
From Town of Lake water loan bonds, 5 per cent.....	150,000 00
From Town of Lake water loan bonds, 7 per cent.....	222,000 00
From Lake View water loan bonds, 4 per cent.....	50,000 00
From Lake View water loan bonds, 5 per cent.....	23,000 00
From Lake View water loan bonds, 7 per cent.....	75,000 00
From water fund investment.....	334,000 00
From water fund revenues.....	10,851,576 71
	<u>\$20,378,255 24</u>

Total water works income to December 31, 1892..... 30,105,463 69

Total operating expenses and maintenance to December 31,  
1892 (including \$7,381,103.89 interest on bonded debt  
and bonds canceled) ..... 19,310,311 89

Difference between income and expenses..... \$10,795,151 80

## Accounted for as follows:

Paid towards water works construction.....	\$10,851,576 71
American Exchange National Bank.....	116,420 27
J. W. Lyons, cashier.....	1,691 88
J. Hardacre.....	100 00
Meter department, stock on hand.....	7,699 02
Shop and stable, stock on hand.....	9,552 93
Tapping department, stock on hand.....	4,865 99
Water pipe, etc., on hand.....	197,734 50
	<u>\$11,189,641 30</u>
Less amount due depositors for hydrant wrenches.....	\$ 2,041 82
Less amount advanced by private parties to lay water pipe in non-paying districts....	<u>392,447 68</u>
	<u>394,489 50</u>
	<u><u>\$10,795,151 80</u></u>

BONDED DEBT OF WATER WORKS.

City of Chicago water loan bonds outstanding December 31, 1892, bearing 7 per cent. interest, and maturing as follows:

July 1, 1894.....	\$ 541,000 00	
July 1, 1895.....	1,485,000 00	
		<hr/> \$2,026,000 00

Bearing 6 per cent. interest, and maturing as follows:

July 1, 1897.....	\$ 50,000 00	
July 1, 1898.....	82,000 00	
		<hr/> 132,000 00

Bearing  $3\frac{5}{8}$  per cent. interest, maturing—

July 1, 1902.....		333,000 00
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Bearing  $3\frac{1}{2}$  per cent. interest, maturing—

July 1, 1909.....	\$ 225,000 00	
July 1, 1910.....	108,500 00	
		<hr/> 333,500 00

Bearing 4 per cent. interest, maturing—

July 1, 1908.....	\$ 150,000 00	
July 1, 1910.....	159,500 00	
July 1, 1912.....	821,000 00	
		<hr/> 1,130,500 00

Total.....		<hr/> \$3,955,000 00
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ANNEXED DISTRICTS.

Town of Lake water bonds:

5 per cent. bonds, due April 1, 1893.....	\$ 15,000 00	
5 per cent. bonds, due April 1, 1894.....	15,000 00	
5 per cent. bonds, due April 1, 1895.....	15,000 00	
5 per cent. bonds, due April 1, 1896.....	15,000 00	
5 per cent. bonds, due April 1, 1897.....	15,000 00	
5 per cent. bonds, due April 1, 1898.....	15,000 00	
5 per cent. bonds, due April 1, 1899.....	15,000 00	
5 per cent. bonds, due April 1, 1900.....	15,000 00	
5 per cent. bonds, due April 1, 1901.....	15,000 00	
5 per cent. bonds, due April 1, 1902.....	15,000 00	
7 per cent. bonds, due January 1, 1894.....	107,000 00	
7 per cent. bonds, due July 1, 1894.....	115,000 00	
		<hr/> \$ 372,000 00

**Hyde Park water bonds :**

5 per cent. bonds, due January 1, 1904.....\$	50,000 00	
7 per cent. bonds, due July 1, 1893.....	30,000 00	
7 per cent. bonds, due January 1, 1894.....	23,000 00	
7 per cent. bonds, due January 1, 1895.....	322,000 00	
7 per cent. bonds, due January 1, 1896.....	9,000 00	
		<hr/>
		\$434,000 00

**Lake View water bonds :**

5 per cent. bonds, due July 1, 1904.....\$	23,000 00	
4 per cent. bonds, due July 1, 1907.....	50,000 00	
7 per cent. bonds, due July 1, 1895.....	75,000 00	
		<hr/>
		148,000 00

Total bonded debt of water works	\$4,909,000 00
Total interest paid on water loan to January 1, 1893.....	\$7,881,103 89

The following table indicates the quantity of water furnished, the total revenue received, and the average amount per million gallons annually, from 1858 to 1892, both years inclusive:

YEAR.	MILLION GALLONS FURNISHED.	REVENUE.	REVENUE PER MILLION GALLONS.
1858.....	1,092	\$102,178 85	\$93 57
1859.....	1,415	122,753 50	86 70
1860.....	1,717	131,162 73	76 39
1861.....	1,766	131,035 10	74 15
1862..... (15 months)....	2,705	188,448 25	85 00
1863.. .... (9 months).....	2,336	192,246 39	82 29
1864.....	2,523	224,902 57	89 14
1865.....	2,778	253,114 49	91 11
1866.....	3,169	302,017 59	95 30
1867.....	4,232	338,929 28	80 68
1868.....	5,375	420,686 94	78 26
1869.....	6,801	476,968 24	70 13
1870.....	7,945	539,180 19	67 86
1871.....	8,423	445,834 64	52 93
1872.....	10,051	544,465 90	54 17
1873.....	11,723	708,804 32	60 46
1874.....	13,903	705,926 64	50 77
1875..... (9 months).....	10,957	635,996 54	58 04
1876.....	15,346	771,940 38	50 30
1877.....	19,047	908,509 64	47 70
1878.....	19,564	944,190 97	48 31
1879.....	20,557	922,001 26	44 85
1880.....	21,002	865,618 35	41 21
1881.....	23,331	936,922 07	40 16
1882.....	24,150	1,049,576 90	43 46
1883.. ....	26,742	1,142,868 54	42 73
1884.....	29,286	1,204,338 74	41 12
1885.....	33,451	1,339,038 00	40 03
1886.....	35,693	1,374,837 32	38 52
1887.....	37,199	1,490,023 68	40 05
1888.....	38,122	1,557,116 78	40 84
1889.....	40,504	1,621,786 34	40 04
1890.....	56,338	2,202,724 58	39 07
1891.....	63,552	2,364,463 09	37 21
1892.....	71,035	2,738,434 10	38 55

## SEWERAGE.

The sewerage system has been extended in the various divisions of the City during the year as follows :

Constructed in the West Division .....	61.902 miles.
Constructed in the South Division.....	31.442 "
Constructed in the North Division .....	10.682 "

Total..... 104.026 miles.

Number of catch-basins built..... 3,866

Number of man-hole chambers built..... 3,714

The cost of constructing sewers and catch-basins during the year was as follows :

West Division.....	\$723,543 68
South Division.....	472,828 92
North Division.....	93,645 38

Total..... \$1,290,017 98

Total number of catch-basins..... 34,334

Total number of man-hole chambers..... 37,440

Total number of miles of sewer in the City..... 992.346

## MAINTENANCE OF SEWERAGE.

The cost of cleaning and repairing sewers, the cost per mile, and number of miles, also the number of catch-basins and man-hole chambers distributed in the three divisions of the City, is as follows :

DIVISIONS.	MILES OF SEWERS.	NUMBER OF CATCH-BASINS.	NUMBER OF MAN-HOLE CHAMBERS.
West .....	435.666	15,594	15,530
South .....	377.907	12,419	14,543
North .....	178.773	6,321	7,367
TOTALS.....	992.346	34,334	37,440

The cost of repairing sewers during the year was \$46,276.67, being an average cost of \$46.63 per mile.

The cost of cleaning was \$142,720.52, making the average cost \$143.82 per mile.

The total cost of both repairs and cleaning was \$188,997.19, an average cost of \$190.45 per mile.

Of the 992.346 miles of sewers constructed, 422.456 miles are of brick, and 569.890 miles of vitrified pipe.

TOTAL COST OF SEWERS, ETC.

DIVISIONS.	MILES.	COST.	AVERAGE COST PER MILE.
West.....	435.666	\$6,293,801 18	\$14,446 39
South.....	377.907	5,080,015 50	13,442 50
North.....	178.773	2,414,695 69	13,506 44
TOTALS.....	992.346	\$13,788,512 37	\$13,894 86

BONDED SEWER DEBT.

Sewer bonds outstanding December 31, 1892, and maturing as follows :

July 1, 1894, bearing 7 per cent. interest.....	\$ 785,000 00
July 1, 1895, bearing 7 per cent. interest.....	13,000 00
July 1, 1900, bearing 4½ per cent. interest.....	489,500 00
July 1, 1904, bearing 4 per cent. interest.....	458,000 00
July 1, 1908, bearing 4 per cent. interest.....	387,000 00
July 1, 1912, bearing 4 per cent. interest.....	490,000 00
Total Sewerage debt.....	\$2,622,500 00

RIVER IMPROVEMENT BONDS.

Bonds outstanding December 31, 1892, and maturing as follows :

July 1, 1893, bearing 7 per cent. interest.....	\$ 500,000 00
July 1, 1894, bearing 7 per cent. interest.....	346,000 00
July 1, 1895, bearing 7 per cent. interest.....	1,263,000 00
July 1, 1910, bearing 4 per cent. interest.....	250,000 00
July 1, 1912, bearing 4 per cent. interest.....	249,000 00
Total River Improvement debt.....	\$ 2,608,000 00
Grand total outstanding.....	\$ 5,230,500 00
Total interest paid on Sewerage bonds to January 1, 1893...	\$ 5,307,861 00
Total interest paid on River Improvement bonds to January 1, 1893.....	4,469,310 00
Total interest paid on Water Loan bonds to January 1, 1893.	7,631,938 39
Grand total of interest paid to January 1, 1893.....	\$17,409,109 39

## RIVER AND HARBOR.

Mean water in Lake Michigan during the year was seventeen hundredths of a foot below datum, while the lowest stage recorded was three and six tenths (3.60) feet below the low water of 1847, which is the plane of city datum.

During the year the City expended \$50,456.42 for dredging and removing 179,302 cubic yards of material from the Chicago river. 16,102 cubic yards was hard-pan, at 88 cents per yard, which explains the excessive cost and the deficiency in quantity as compared with the preceding year, which showed \$47,445 of expenditure for 260,435 cubic yards.

Notwithstanding the extremely low condition of water in the lake and river, the commerce of the City has increased 1,700,883 tons, while the number of vessels increased 1,798. The commerce of the City is as follows:

Year 1892.....Arrivals,	11,225 vessels.....	6,279,520 tons.
Year 1892.....Clearances,	10,254 vessels.....	6,284,261 tons.
Totals for year.....		21,479 vessels.      12,563,781 tons.

## BRIDGES AND VIADUCTS.

The cost of maintaining these structures for the year was as follows:

For general repairs of bridges and viaducts.....	\$146,899	11
Of this amount there was received for labor and material and from vessels for damages to bridges.....		54 34
Net cost to City for repairs of bridges and viaducts.....	\$146,953	45

## CANAL PUMPING WORKS.

The average rate of pumpage for the year has been 43,528 cubic feet per minute.

The station has received twelve new boilers; the four sets of centrifugal pumps are being exchanged under a contract with the Courtwright Hydraulic Machinery Company for four sets of "undulating" pumps, with a guaranteed capacity of 25,000 cubic feet per minute each.

The inlet channel has been thoroughly cleaned without stopping the works, and has received a new strong iron screen.

The total expense for operation and improvements during the year has been \$103,564.42.

## THE OGDEN DAM.

To keep this dam in tolerable condition \$395.00 has been expended during the year.

## STREETS.

During the year streets were improved as follows:

Paved with cedar blocks.....	77.22 miles
Paved with macadam.....	27.20 miles
Paved with granite blocks.....	.63 miles
Paved with asphalt.....	2.92 miles
Total number of miles paved.....	107.97 miles

## DISTRIBUTION OF KINDS OF PAVEMENTS.

The following shows the kind of pavement in use in each division of the City, December 31, 1892:

DIVISIONS.	Wood Block, Miles.	Macadam, Miles.	Stone, Miles.	Asphalt Block, Miles.	Sheet Asphalt, Miles.	Brick, Miles.	Burned Clay, Miles.	Total, Miles.
North . . . . .	125.50	47.56	.59	.....	3.48	.....	.....	177.18
South.....	141.89	210.70	21.44	3.59	3.88	.67	.23	381.40
West... . . . .	285.47	24.48	2.87	.....	5.46	.....	.....	317.78
Vindict Approaches...	2.89	.....	.....	.....	.....	.....	.....	2.89
TOTAL MILES	554.75	282.74	24.40	3.59	12.82	.67	.23	878.70

Repaving and repairs have been made on improved streets in each division of the City as follows:

North Division .....	56,352 square yards.
South Division.....	78,029 square yards.
West Division .....	122,380 square yards.

TOTAL.....256,761 square yards.

This does not include repaving done by private corporations.

## STREET CLEANING.

During the year 5,745.42 miles of streets were cleaned under contract between the City and John S. Cooper, at a cost of \$129,276.91, being an average of \$22.50 per mile. This work was commenced April 8th, and discontinued November 25th. Before and after the above dates, in addition to removing snow and ice and cleaning intersections, the Department cleaned 5,177.24 miles at a cost of \$86,481.73, making a total of 10,922.66 miles, at a total cost of \$215,758.64.



## SIDEWALKS.

The following table shows the various kinds of material used in the construction and repair of sidewalks during the year :

DIVISION.	MATERIAL.			Total Miles.	Sidewalks Repaired, Miles.	Total Work, Miles.
	Wood, Miles.	Stone, Miles.	Concrete, Miles.			
North.....	75.00	1.80	30.00	106.80	13.14	119.44
South.....	250.00	3.00	80.96	333.96	58.38	392.34
West .....	300.00	4.39	55.00	359.39	62.81	422.20
TOTALS.....	625.00	8.69	165.96	799.65	134.33	933.98

Of the above there have been built 103.85 miles by the City under special assessments.

The total number of miles of sidewalks laid in the City, including those constructed on highways controlled by the Park Commissioners, is as follows:

	MATERIAL.			Total Miles.
	Wood.	Stone.	Concrete.	
City .....	3,356.49	212.60	299.03	3,868.12
Boulevards to North Parks.....	.....	2.17	3.97	6.14
Boulevards to South Parks.....	.....	15.30	15.85	31.15
Boulevards to West Parks.....	.....	11.05	14.97	26.02
Total miles.....	3,356.49	241.12	333.82	3,931.43

STREET LAMPS.

OIL LAMPS.						GASOLINE LAMPS.					
DIVISION.	No. in City, Jan. 1, 1892.	Erected during 1892.	TOTAL.	Discontin- ued in 1892.	No. in City, Dec. 31, 1892.	No. in City, Jan. 1, 1892.	Erected during 1892.	TOTAL.	Discontin- ued in 1892.	No. in City Dec. 31, 1892.	
North, including Lake View...						431	658	1,089	120	917	
South, including Hyde Park, Town of Lake, West Endmont, Goose and Wash. Heights	162		162		162	5,851	102	5,953	255	4,981	
West, including Jefferson and Ogden.						3,682	1,885	5,567	502	4,850	
TOTALS.....	162		162		162	9,964	2,645	12,609	877	10,748	
GAS LAMPS.						ELECTRIC LIGHTS.					
DIVISION.	No. in City, Jan. 1, 1892.	Erected during 1892.	TOTAL.	Discontin- ued in 1892.	No. in City, Dec. 31, 1892.	No. in City, Jan. 1, 1892.	Erected during 1892.	Discontin- ued in 1892.	Total lights op- era't'd from city plants Dec. 31, '92.	Lighted by Contract.	No. in City Dec. 31, 1892.
North, including Lake View...	5,286	475	5,761	98	5,555	200	40		240		240
South, including Hyde Park, Town of Lake and South Chicago.....	7,884	1,628	9,512	263	9,357	898	11		949	192	541
West..	13,879	2,583	16,472	306	15,376	455	58		513		513
TOTALS.....	27,049	4,686	31,745	667	30,288	993	109		1,102	192	1,294

Total number of Street Lamps in the City, 42,492.

## EXPENSE OF LIGHTING.

The following table shows the cost of lighting the City and maintaining lamps during the year ending December 31, 1892, including the cost of extinguishing under schedules adopted by the Council :

Total cost of lighting and maintaining gas lamps.....	\$431,649 11
For material and lighting oil lamps.....	} 189,416 18
For gasoline used by City for maintaining lamps.....	
For maintaining electric lamps .....	105,262 77
Total cost of lighting the City.....	<u>\$726,328 06</u>

## ELECTRIC LIGHTING.

DISTRICTS.	Estimated Number of Electric Lights required to Light respective Districts.	Number of Electric Lamps in service in the respective Districts, December 31st, 1892.	Balance Required.
Number 1.....	500	349	151
Number 2.....	750	.....	750
Number 8.....	600	.....	600
Number 4.....	600	290	310
Number 5.....	500	.....	500
Number 6.....	1,000	364	636
Number 7.....	400	.....	400
Number 8.....	500	99	401
Number 9.....	400	.....	400
Number 10.....	700	.....	700
Number 11.....	800	.....	800
Number 12.....	600	.....	600
TOTAL.....	7,850	102	6,248

From Professor Barrett's report it will be seen that the total number of arc lights placed in position displacing gas lights is 1,102, the gas lights thus removed numbering 4,408, making an average of one electric light for four gas lamps, with the candle or illuminating power of the electric light greatly exceeding such proportions.

The following table gives the annual extensions of the system from 1887 to the present date, including the total cost of the same:

YEAR.	Number of Power Houses Erected.	Calculated Capacity of Power Houses in 2,000 Candle Power Lights.	Horse Power of Engines installed.	Number of Arc Lights placed in Operation as a result of Appropriation each Year.	Number of Arc Lights Displacing Gas.	Number of Gas Lights Displaced.	Average Number of Gas Lights each Year for each Electric Light.	Avg. Displacement of Gas for All Years.	Expended for Electric Light Construction and Maintenance.
1887.....	* 1	† 125	125	105	76	.....	.....	.....	\$ 89,976.25
1888.....	* 1	† 800	800	192	192	826	8	.....	69,414.25
1889.....	3	3,000	1,500	372	372	1,452	3 <sup>10</sup> / <sub>10</sub>	.....	307,856.62
1890.....	1	850	425	260	260	1,843	5 <sup>10</sup> / <sub>10</sub>	.....	139,630.60
1891.....	.....	.....	.....	64	58	273	4 <sup>10</sup> / <sub>10</sub>	.....	243,141.05
1892 .....	.....	.....	.....	109	88	341	3 <sup>10</sup> / <sub>10</sub>	.....	139,893.16
	4	8,850	1,925	1,102	1,046	4,235	.....	4	\$939,911.93

\* Abandoned. † Moved to Number 1.

Total expenditure for construction and maintenance, \$939,911.93.

There are 1,102 2,000-C. P. arc lights operated from City plant.

There are 1,100 16-C. P. lamps operated from City plant.

There are 192 2,000-C. P. arc lights operated under contract.

#### THE CITY ELECTRIC LIGHT SYSTEM COMPRISES:

Power stations.....	4
125-H. P. high speed engines.....	13
300-H. P. Corliss engine.....	1
100-H. P. tubular boilers, heaters, pumps, etc.....	6
125-H. P. tubular boilers, heaters, pumps, etc.....	15
2,000-C. P. double carbon lamps.....	1,296
Lamp posts and hoods.....	1,102
60-light high tension dynamos.....	7
60-light low tension dynamos.....	4
50-light high tension dynamos.....	8
35-light high tension dynamos.....	8
35-light low tension dynamos.....	6
30-light low tension dynamos.....	10
Miles of electric light cable.....	183
Number of feet of underground conduit.....	12,109
Number of feet of iron pipe laid underground.....	574,340
Number of man-holes.....	340
Number of hand-holes.....	125

## SUMMARY OF CITY ELECTRICAL INSPECTION.

LAMPS INSPECTED.		MOTORS INSPECTED.		
ARC.	INCANDESCENT.		INSTALLMENTS WIRED ONLY.	GENERATORS
Year 1892....5,046	Year 1892..101,668	Year 1892.....504	.....	.....
Previous years...14,441	Previous years..190,282	Previous years..668	.....	.....
Total ....19,487	Total ...291,950	Total.....1,172	Total...188	Total..345

## RE-INSPECTED.

ARC.	INCANDESCENT.
Year 1892 .....	Year 1892.....
.....2,082	.....30,998
Total.....	.....33,080

STATEMENT OF YEARLY INSPECTION OF ELECTRIC LIGHT LAMPS  
FROM FEBRUARY 14, 1884, TO JANUARY 1, 1893.

YEAR.	NO. OF ARC LIGHTS.	NO. INCANDESCENT
1884.....	1,148	1,885
1885.....	820	7,600
1886.....	479	5,225
1887.....	837	5,424
1888.....	2,869	17,717
1889.....	2,623	24,966
1890.....	2,682	39,543
1891.....	3,974	87,913
1892.....	5,046	101,668
Totals .....	19,487	291,950

## PARKS.

The cost of maintaining the various parks under the control of this Department during the past year was as follows :

Irving Park.....	\$ 5 00
Oak Park .....	270 50
Ellis Park.....	761 04
Douglas Monument Square .....	1,757 48
Aldine Square.....	973 00
Bickerdike Square.....	56 03
Green Bay Park.....	150 50
Washington Square .....	1,535 14
Shedd's Park.....	40 40
Gross Park.....	381 93
Jefferson (Town) Park.....	63 00
Holstein Park .....	120 00
East End Park .....	1,294 44
Congress Park.....	20 39
Total expenditures.....	<u>\$7,428 85</u>

## BUILDINGS.

The report of the Commissioner of Buildings shows that during the past year 13,194 buildings were erected, extending over an aggregate frontage of 327,573 lineal feet, or over sixty-one miles, at a cost of nearly \$65,000,000, the same being distributed in the divisions of the City as follows :

DIVISION.	NUMBER BUILDINGS ERECTED.	AGGREGATE FRONTAGE IN FEET.	FRONTAGE IN MILES.	ESTIMATED VALUE.
North.....	549	15,252	2.88	\$4,227,500 00
South.....	1,138	32,790	6.21	14,522,100 00
West.....	3,694	95,019	17.91	14,686,800 00
Hyde Park.....	3,353	90,676	17.10	21,203,800 00
Town of Lake.....	2,833	62,534	11.08	6,630,400 00
Lake View.....	1,627	31,302	5.90	3,469,200 00
GRAND TOTALS.....	13,194	327,573	61.08	\$64,739,800 00

## COMPARISON WITH NINE PREVIOUS YEARS.

YEAR.	NUMBER BUILDINGS ERECTED.	AGGREGATE FRONTAGE IN FEET.	FRONT- AGE IN MILES.	ESTIMATED VALUE.
1883.....	4,086	85,588	16.2	\$17,500,000 00
1884.....	4,169	98,782	18.6	20,689,600 00
1885.....	4,638	108,850	20.6	19,624,100 00
1886.....	4,664	112,302	21.2	21,324,400 00
1887.....	4,833	115,506	21.8	19,778,100 00
1888.....	4,958	116,419	22.0	20,360,800 00
1889.....	7,590	181,126	34.8	31,516,000 00
1890.....	11,608	266,284	50.4	47,322,100 00
1891.....	11,805	282,672	53.4	54,001,800 00
1892.....	13,194	327,573	61.0	64,740,800 00
Totals .....	71,545	1,695,102	319.5	\$316,657,700 00

There were moved under the supervision of the Department of Public Works 1,477 frame and 128 brick buildings, a total of 1,605. They varied from one to four stories high, and had a frontage of 33,147 lineal feet, or more than six miles.

## CONCLUSION.

Notwithstanding the evils referred to there are and always will be numerous efficient and worthy employees in the City's service, and I am glad of this opportunity to testify to the faithful and intelligent character of the work performed by the various bureau chiefs of this Department and by many of its old employees, some of whom have served the City faithfully for periods ranging between fifteen and twenty-five years. They have each and all contributed their just proportion to whatever of success has crowned the efforts of this administration of the Department of Public Works, and I tender them my heartfelt thanks.

To the very able and efficient Deputy Commissioner, who has so loyally sustained me through the term just closed, I am peculiarly grateful, and predict for him, as my official successor, the highest possible honors. To each and all of you, members of the City Council, I am greatly obligated for the uniform courtesy and consideration with which you have always treated me.

Respectfully,

J. FRANK ALDRICH,

*Commissioner.*







## MISCELLANEOUS DATA—1892.

Chicago covers an area of nearly one hundred and eighty and fourteen one hundredths square miles, or.....	115,288 acres
Population of the City.....	1,500,000
Total bonded City indebtedness.....	\$18,476,450.00
Total value of real estate, buildings, etc., owned by the City.	\$41,390,366.63
Number of school buildings owned by the City..	233
Number of school buildings opened during year.....	15
Increased capacity, number of scholars (est.).....	11,000
Number of rented buildings used for school purposes.....	92
Total number of night and day scholars enrolled during year	167,047
Number of night schools.....	52
Total enrollment of night schools.....	13,391
Average number of children attending public schools .....	137,266
Average number of children attending private schools.....	72,256
Value of school buildings, lots and furniture.....	\$11,733,489.00
Number of teachers in public schools.....	3,782
Number of teachers in private schools.....	2,048
Number of churches.....	543
Number of police station buildings.....	36
Number of patrol barns.....	35
Number of horses in use.....	241
Number of patrol wagons.....	42
Number of ambulances.....	4
Number of men on force.....	2,900
Number of miles of telegraph wire in use....	2,400
Number of engine and hook and ladder houses.....	102
Number of fire engines.....	73
Number of fire boats.....	4
Number of hook and ladder trucks.....	31
Number of chemical fire engines.....	26
Number of firemen employed.....	1,012
Number of horses in use.....	448
Number of police and fire alarm boxes.....	1,958
Number of electric lights for City purposes.....	1,102
Number of miles of streets in City.....	2,370
Number of miles of paved streets.....	879
Number of miles of sidewalks.....	3,931
Number of miles of sewers.....	992
Number of miles of water mains.....	1,402

Number of miles of water tunnels in use.....	17.50
Number of miles of water tunnels in process of construction.....	1.25
Number of river traffic tunnels.....	2
Number of bridges over the Chicago river.....	54
Number of bridges over the Calumet river.....	5
Number of bridges over the Illinois and Michigan canal....	4
Number of viaducts over railroad tracks.....	39
Number of street lamps in City.....	42,492
Number of miles of river frontage.....	41
Number of vessels arriving during the year.....	11,225
Number of vessels departing during the year.....	10,254
Representing tonnage of.....	12,563,000
Number of vessel-towing tugs.....	50
Number of pensioners on roll, Chicago agency.....	72,170
Amount paid pensioners, Chicago agency.....	\$11,633,631.30
Amount of internal revenue collections.....	\$11,006,999.74
Amount of import duties—merchandise.....	\$7,490,578.91
Assessed valuation of real and personal property.....	\$243,732,138.00
Recorded transfers of real estate.....	\$180,892,364.00
Value of land placed under long-term leases.....	\$12,000,000.00
Number of buildings erected.....	13,194
Estimated cost of buildings erected.....	\$64,740,800.00
Number of acres of parks under the control of Park Com- missioners.....	2,078.95
Number of acres of parks under control of the City.....	69.24
Number of miles of boulevards in the City.....	46.52
Total capital of Chicago City banks.....	\$35,777,000.00
Total deposits at Chicago City banks.....	\$200,030,484.00
Surplus and profits.....	\$20,535,518.00
New banks during year, capitalized at.....	\$2,000,000.00
Bank clearing for the year.....	\$5,135,771,186.00
Number of railroads entering the City.....	21
Number of miles of surface track of railroads entering the City.....	1,439
Number of street car companies.....	15
Number of miles of street railway tracks.....	415
Number of miles of cable street railways.....	68
Number of miles of elevated railways in operation.....	7
Number of feet of lumber received.....	2,250,298,000
Number of feet of lumber shipped.....	1,058,407,000
Number of shingles received.....	413,266,000
Aggregate value of lumber.....	\$50,000,000.00
Number of bushels of grain received.....	229,195,512
Number of barrels of flour received.....	5,919,343

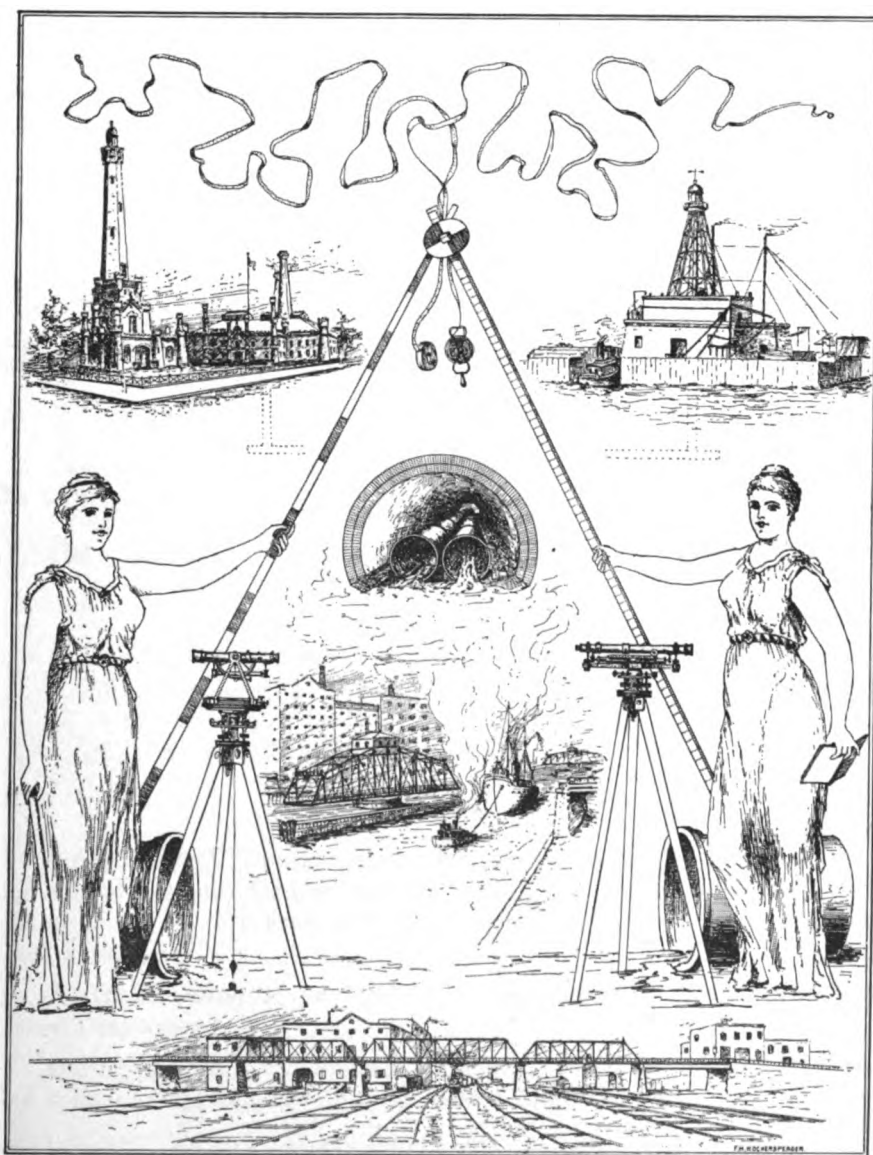
Approximate value of wheat, corn and oats received in the

City .....	\$101,814,072.00
Number of hogs received.....	7,714,435
Number of cattle received.....	3,769,372
Number of sheep received.....	2,145,079
Number of horses received.....	86,998
Number of pounds of cured and dressed beef received.....	329,461,813
Number of pounds of lard received.....	179,965,327
Number of pounds of lard shipped.....	743,859,554
Number of tons of anthracite coal received.....	2,125,063
Number of tons of bituminous coal received.....	4,627,167
Total number of tons of coal and coke received.....	7,568,666
Approximate value of coal and coke received.....	\$30,470,885.00

POST OFFICE.

Receipts from cards, stamps and envelopes.....	\$4,240,725 79
Money orders, amount received and disbursed .....	\$22,021,399.42
Registry of mails.....	\$3,658,598.00
Number of pieces of mail handled.....	329,183,341
Number of wagons in use for conveying mails to and from depots.....	56
Number of mail wagons collecting from boxes.....	71
Number of clerks employed.....	1,033
Number of carriers employed.....	986
Number of horses in use.....	150





# BUREAU OF ENGINEERING



# CITY ENGINEER'S REPORT.

J. FRANK ALDRICH, Esq.,

*Commissioner of Public Works.*

DEAR SIR:—I have the honor to submit herewith the annual report of the City Engineer's office for the year 1892.

The subject matter is treated under the following main headings, viz.:

1. Harbor.
2. Bridge and Viaduct Construction.
3. Bridge and Viaduct Repairs.
4. Main Sewerage Works.
5. Water Supply System.
6. East End Park Improvement.

## HARBOR.

Mr. Richard O. S. Burke was the engineer in charge of dredging, docking and surveys until October 1, when he resigned in order to engage in private business. Mr. Francis F. Hopp has since then had charge of the same work.

W. H. B. Deane is the Harbor Master, and Richard Powers is the Vessel Despatcher.

During the year the following dredging was done under contracts and special orders from the Commissioner of Public Works:

Sec. 1.....	51,360 cubic yards.....	\$10,272 00
“ 2.....	14,032 “ “ .....	2,806 40
“ 3.....	11,842 “ “ .....	2,359 00
“ 4.....	28,940 “ “ .....	6,927 84
“ 5.....	18,224 “ “ .....	4,556 00
“ 8.....	16,102 “ “ (hard pan).....	14,169 76
“ 10.....	6,704 “ “ .....	1,340 80
“ 13.....	32,098 “ “ .....	8,024 50
Total.....		179,302 \$50,456 42



The 16,102 cubic yards on Section 8 was hard pan, and cost eighty-eight (88) cents per cubic yard, leaving a balance of 163,200 cubic yards, which was moved for 22¼ cents per yard.

Eighty-five permits were granted the dredging companies to dredge for private parties, and 310,214 yards was taken out under these permits.

The City expended \$1,784.19 for the repairs of docks at street ends and other places.

Sixty-seven permits were given owner and tenants to build, rebuild and repair docks.

TABLE SHOWING MAXIMUM, MINIMUM AND MEAN WATER IN LAKE MICHIGAN ANNUALLY, FROM 1854 TO 1892, BOTH INCLUSIVE:

Year.	Max.	Min.	Mean.	Year.	Max.	Min.	Mean.
1854.....	.....	.....	1.83	1874.....	2.80	-0.20	1.67
1855.....	3.45	0.15	1.56	1875.....	3.01	-0.34	1.45
1856.....	3.56	0.42	1.60	1876.....	4.31	0.34	2.56
1857.....	4.35	0.60	2.42	1877.....	3.56	1.04	2.31
1858.....	4.69	1.33	2.00	1878.....	3.14	0.51	2.00
1859.....	4.45	1.31	2.98	1879.....	2.51	-0.49	1.06
1860.....	3.53	1.30	2.54	1880.....	2.81	-0.99	1.16
1861.....	4.40	1.20	2.56	1881.....	3.01	-2.19	1.26
1862.....	3.30	0.70	2.50	1882.....	3.01	-0.99	2.00
1863.....	3.30	-0.80	2.10	1883.....	3.31	-0.99	2.10
1864.....	2.80	-0.40	1.57	1884.....	3.31	-0.01	2.24
1865.....	3.66	-1.08	1.30	1885.....	3.71	-0.01	2.48
1866.....	2.50	0.00	1.07	1886.....	4.41	0.01	2.64
1867.....	2.60	-0.41	1.49	1887.....	3.11	0.01	1.96
1868.....	2.58	-1.00	1.01	1888.....	3.01	0.01	1.30
1869.....	2.13	0.41	1.13	1889.....	2.51	-0.79	0.77
1870.....	3.25	-0.30	2.09	1890.....	2.21	-0.99	0.63
1871.....	2.80	-0.40	1.77	1891.....	1.61	-2.39	0.05
1872.....	1.80	-0.74	0.81	1892.....	1.30	-3.60	-0.17
1873.....	2.73	-0.76	1.40				

TABLE SHOWING HIGHEST, LOWEST, AND MEAN WATER BY MONTHS  
DURING YEAR 1892, IN CHICAGO RIVER AND LAKE MICHIGAN, WITH  
COMPARISON AND GREATEST DAILY RANGE :

MONTHS	CHICAGO RIVER AT CHICAGO AV. PIPE YARD.			LAKE MICHIGAN.			MEANS COMPARED			GREATEST DAILY RANGE.	
	Max.	Min.	Mean.	Max.	Min.	Mean.	River.	Lake.	River over Lake.	Feet.	Date.
	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.		
Jan. ....	1.10	-0.90	-0.09	0.80	-3.60	-0.80	-0.09	-0.80	0.71	2.8	Jan. 21
Feb. ....	0.70	-0.70	-0.06	0.20	-1.10	-0.48	-0.06	-0.48	0.42	0.7	Feb. 14
March ..	0.50	-0.90	-0.01	0.00	-1.30	-0.58	-0.01	-0.58	0.57	0.8	Mar. 9
April ...	0.80	-0.70	0.08	0.00	-1.80	-0.55	0.08	-0.55	0.63	0.9	April 14
May ....	2.00	-0.10	0.56	0.20	-0.80	-0.20	0.56	-0.20	0.76	0.5	May 8
June ....	3.00	0.10	1.04	1.00	-0.70	0.20	1.04	0.20	0.84	1.2	June 23
July. ...	1.60	0.70	0.99	1.00	0.10	0.39	0.99	0.39	0.60	0.6	July 15
August..	1.50	0.70	1.04	1.00	0.10	0.56	1.04	0.56	0.48	0.5	Aug. 10
Sept. ....	1.30	0.30	0.83	0.80	-0.20	0.36	0.83	0.36	0.47	0.5	Sept. 9
Oct. ....	1.40	1.10	0.63	1.30	-0.30	0.20	0.63	0.20	0.43	0.7	Oct. 1
Nov. ....	1.30	1.00	0.36	1.20	-0.90	-0.16	0.26	-0.16	0.42	1.1	Nov. 11
Dec. ....	0.80	0.40	0.01	0.70	-0.90	-0.22	0.01	-0.22	0.23	1.0	Dec. 20
Means, annual. ...			0.45			-0.17			0.55		

Table showing precipitation and mean temperature in inches and degrees Fahrenheit over the basin of the upper lakes, and mean water in Lake Michigan in inches by years from 1871 to 1892, both inclusive, with the annual increase or decrease :

YEAR.	BASIN OF UPPER LAKES.						LAKE MICHIGAN.		
	PRECIPITATION.	DIFFERENCE WITH PRECEDING YEAR.		MEAN TEMPERATURE	DIFFERENCE WITH PRECEDING YEAR.		LEVELS OF MEAN WATER.	DIFFERENCE WITH PRECEDING YEAR.	
	Inches.	Increase.	Decrease.	Degrees.	Increase.	Decrease.	Inches.	Increase.	Decrease.
1871	28.56	....	....	47.1	....	....	21.24	....	....
1872	29.68	1.12	....	48.9	....	3.2	9.62	....	11.62
1873	31.95	2.27	....	44.2	0.8	....	16.80	7.18	....
1874	29.69	....	2.26	45.8	1.6	....	20.04	3.24	....
1875	33.81	4.12	....	41.9	....	3.9	17.40	....	2.64
1876	39.13	5.32	....	44.7	2.8	....	30.72	13.32	....
1877	36.11	....	3.02	47.2	2.5	....	27.72	....	3.00
1878	37.92	1.81	....	49.3	2.1	....	24.00	....	3.72
1879	35.12	....	2.80	46.6	....	2.7	12.72	....	11.28
1880	36.36	1.24	....	47.0	0.4	....	13.92	1.20	....
1881	43.66	7.30	....	46.6	....	0.4	15.12	1.20	....
1882	37.85	....	5.81	47.0	0.4	....	24.00	8.88	....
1883	34.82	....	3.03	42.4	....	4.6	25.20	1.20	....
1884	37.34	2.52	....	44.5	....	2.1	26.88	1.68	....
1885	33.47	....	3.87	42.1	....	2.4	28.56	1.68	....
1886	30.15	....	3.32	44.4	2.3	....	31.68	3.12	....
1887	27.91	....	2.24	44.3	....	0.1	23.52	....	8.16
1888	29.27	1.36	....	43.1	....	1.2	15.60	....	7.92
1889	28.28	....	0.99	45.8	2.7	....	9.24	....	6.36
1890	34.45	6.17	....	46.1	0.3	....	7.56	....	1.68
1891	29.64	....	4.81	46.7	0.6	....	0.60	....	6.96
1892	34.36	4.72	....	44.7	....	2.0	-2.04	....	2.64

Means for twenty-two years: precipitation, 33.61"; temperature, 45.2 degrees; levels of mean water, 1' 6.6".

The foregoing table shows that an increase of precipitation in any year over its next preceding one, with no change, or but a slight one, in mean temperature, affects the lake levels of the following year, by reason of there being comparatively no increase in the evaporation from the enormous surface of the lakes.

The stage of water in Lake Michigan during the year 1892 has been the lowest in the history of the City, having been all the year much below datum. However, the heavy rains and snows of the present winter (1893) have had already a marked effect in raising the lake level, and a wet spring with moderately low mean temperature this year will greatly benefit navigation in the Chicago River.





The tables show that an annual precipitation of about 36 inches over the basin of the upper lakes, with a constant normal temperature, would keep the lakes at about one level from year to year.

To the kindness of Capt. J. M. Clark, Collector of the Port, of the Commissioners of the Illinois & Michigan Canal, and of the local officers of the U. S. Weather Bureau, I am indebted for the very complete data used in compiling the following diagram and tables :

COMMERCE BY LAKE AND CANAL—CITY OF CHICAGO, FROM 1871 TO 1892,  
BY YEARS—WITH POPULATION.

Year.	VESSELS BY LAKE.			BY ILL. & MICH. CANAL.			POPULATION.
	Total No.	Total Tonnage.	Average Cargo, Ton.	Boats. No.	Tonnage.	Tolls. Dollars.	
1871	24,632	6,178,336	251	186	629,975	\$ 159,050	334,270
1872	25,353	6,077,542	239	173	783,641	165,874	367,396
1873	23,734	6,564,542	239	172	849,533	166,641	380,000
1874	21,547	6,329,711	294	152	712,020	144,831	395,400
1875	21,095	6,279,055	298	142	676,025	107,081	407,000
1876	19,245	6,167,736	320	145	691,943	113,293	420,000
1877	20,517	6,585,415	321	145	605,912	96,913	439,776
1878	20,984	7,239,673	345	140	598,792	84,330	450,000
1879	23,873	7,757,395	325	136	669,559	89,064	475,000
1880	25,520	9,154,351	345	133	751,360	92,296	503,298
1881	26,005	8,762,247	337	133	826,133	85,130	540,000
1882	26,977	9,754,949	362	132	1,011,287	85,947	560,693
1883	23,982	7,793,337	325	132	925,575	77,975	580,000
1884	22,826	7,508,696	330	134	956,721	77,102	630,000
1885	21,542	7,306,222	339	135	827,355	66,800	664,634
1886	22,372	7,877,080	352	130	808,012	62,516	704,000
1887	23,972	8,749,852	365	132	742,074	58,025	760,000
1888	22,095	8,890,658	402	127	751,055	56,028	830,000
1889	21,788	10,267,831	471	114	917,047	65,305	1,100,000
1890	20,133	10,116,051	502	104	742,392	55,111	1,200,000
1891	19,680	10,862,898	522	97	641,156	49,457	1,320,000
1892	21,123	11,934,963	565	95	783,288	54,987	1,600,000

**STATEMENT SHOWING THE MAXIMUM, MINIMUM AND MEAN TEMPERATURES AT CHICAGO, ILL., FOR EACH DAY OF THE YEAR 1892.**

DATE.	JANUARY.			FEBRUARY			MARCH.			APRIL.			MAY.			JUNE.		
1892.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
1.....	54	41	48	49	35	42	32	27	30	70	43	56	70	53	62	59	43	51
2.....	21	12	16	37	33	35	36	24	30	63	46	54	49	41	45	54	44	49
3.....	18	6	12	39	32	36	52	31	42	56	42	49	70	42	56	52	46	49
4.....	24	17	20	38	32	35	36	31	33	67	46	56	47	40	44	60	50	55
5.....	27	19	23	34	30	32	36	31	34	49	40	44	69	43	56	56	50	53
6.....	23	14	18	38	25	32	35	31	33	55	37	46	64	53	58	74	50	63
7.....	15	0	8	48	32	40	36	32	34	61	47	54	49	38	44	77	54	66
8.....	21	7	14	32	28	30	43	32	38	44	34	39	45	39	42	73	61	67
9.....	7	-5	1	26	12	19	44	14	29	36	23	30	53	41	47	63	51	57
10.....	15	2	8	38	22	30	20	5	12	32	27	30	60	49	54	72	50	61
11.....	27	14	20	20	14	17	31	11	21	40	28	34	49	39	44	88	63	76
12.....	13	3	8	17	7	12	40	31	36	38	34	36	49	39	44	90	71	80
13.....	18	5	12	47	15	31	29	22	26	43	34	38	48	44	46	87	63	75
14.....	12	3	8	30	23	26	23	9	16	39	32	36	54	44	49	73	58	66
15.....	14	0	7	17	2	10	21	14	18	42	32	37	65	50	58	76	59	68
16.....	28	10	19	24	9	16	26	14	20	53	38	46	70	50	60	91	62	76
17.....	27	16	22	41	19	30	24	17	20	42	37	40	69	54	62	72	56	64
18.....	22	13	18	35	29	32	29	16	22	40	36	38	67	56	62	72	60	66
19.....	15	10	12	32	29	30	27	20	24	42	36	39	50	39	44	77	67	73
20.....	16	4	10	36	30	33	24	16	20	47	36	42	48	37	42	82	63	73
21.....	27	8	18	35	32	34	35	22	28	54	40	47	47	43	45	80	68	74
22.....	35	19	27	39	31	35	43	32	38	55	40	48	52	42	47	84	60	72
23.....	28	16	22	36	32	34	38	28	33	64	38	51	58	43	50	76	60	68
24.....	40	23	33	42	30	36	50	29	40	36	32	34	63	50	56	75	61	68
25.....	40	29	34	37	34	36	49	37	43	41	34	38	71	52	62	62	58	60
26.....	21	12	16	39	31	35	53	37	45	58	37	48	64	51	58	66	58	63
27.....	26	13	19	35	26	30	39	35	37	78	47	62	51	44	48	63	57	60
28.....	39	21	30	40	29	34	38	32	35	55	47	51	64	48	56	69	55	63
29.....	42	32	37	35	32	34	48	32	40	49	38	44	76	56	66	70	56	63
30.....	35	24	30	.....	.....	.....	47	39	43	63	45	54	73	58	66	60	56	58
31.....	42	27	34	.....	.....	.....	47	37	42	.....	.....	.....	57	50	54	.....	.....	.....
Means.....	25.6	13.4	19.5	35.0	25.3	30.2	36.5	25.4	31.0	50.4	37.5	44.0	53.7	46.0	52.5	71.8	57.0	64.4

STATEMENT SHOWING THE MAXIMUM, MINIMUM AND MEAN TEMPERATURES AT CHICAGO, ILL., FOR EACH DAY OF  
THE YEAR 1892—CONTINUED.

DATE.	JULY.			AUGUST.			SEPT.			OCTOBER.			NOV.			DEC.		
1891.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
1.....	71	53	62	70	64	67	63	56	60	65	54	60	54	46	50	37	30	34
2.....	79	58	68	72	59	66	70	54	62	68	52	60	47	45	46	38	27	32
3.....	68	53	60	87	64	76	81	58	70	80	61	70	46	40	43	46	30	38
4.....	71	58	64	72	66	69	78	63	70	63	53	58	44	34	39	38	32	35
5.....	71	59	65	76	64	70	67	53	60	52	43	48	41	27	34	40	30	35
6.....	72	62	67	74	68	71	63	48	56	68	40	54	52	34	43	53	38	46
7.....	67	63	65	80	70	75	62	58	60	62	48	55	48	26	37	57	37	47
8.....	71	63	67	93	73	83	69	58	64	49	44	46	33	17	25	31	32	26
9.....	76	65	70	92	76	84	82	62	72	57	42	50	36	27	32	28	21	24
10.....	77	66	72	82	71	76	76	65	70	72	46	59	43	30	36	20	15	18
11.....	78	68	73	71	66	68	66	58	62	74	50	62	46	31	38	23	8	16
12.....	87	70	78	72	65	68	65	54	60	67	53	60	41	32	36	32	22	27
13.....	73	66	70	73	67	70	61	54	58	72	57	64	58	39	48	38	29	34
14.....	76	63	70	76	65	70	60	50	55	76	60	68	36	34	35	35	29	32
15.....	82	61	72	73	70	72	74	46	60	75	62	68	47	32	40	35	22	28
16.....	68	56	62	76	68	72	61	55	58	61	56	58	49	36	42	35	26	30
17.....	73	60	66	80	70	75	73	49	61	72	56	64	53	42	48	34	27	30
18.....	79	63	71	89	72	80	81	56	68	66	51	58	34	28	31	31	17	24
19.....	81	67	74	67	64	66	63	61	62	60	43	52	32	23	28	28	14	21
20.....	77	71	74	72	64	68	65	56	60	58	43	50	43	21	32	14	1	8
21.....	83	67	75	74	66	70	70	60	65	62	46	54	33	22	28	20	8	14
22.....	83	72	78	75	66	70	80	61	70	63	50	56	29	21	25	14	3	8
23.....	92	76	84	85	67	76	88	67	78	46	36	41	26	12	19	20	9	14
24.....	91	72	82	70	65	68	83	67	75	44	38	41	28	12	20	15	5	10
25.....	94	77	86	69	61	65	74	63	68	46	34	40	33	22	28	10	-2	4
26.....	93	78	86	72	64	68	61	50	56	47	35	41	30	24	27	5	-10	-2
27.....	92	75	84	74	67	70	72	48	60	50	37	44	36	26	31	12	-2	5
28.....	87	74	80	74	67	70	68	56	62	66	38	52	37	30	34	16	4	10
29.....	63	59	61	84	69	76	73	59	66	46	35	40	34	29	32	27	11	19
30.....	68	62	65	66	54	60	82	60	71	52	32	42	39	30	34	33	22	28
31.....	76	61	68	62	50	56	.....	.....	.....	49	42	46	.....	.....	.....	36	28	32
Means .....	78.0	65.1	71.6	75.9	65.9	70.8	71.0	56.8	64.0	60.9	46.4	53.6	40.3	26.1	34.7	29.1	17.8	23.5



**PRECIPITATION AT CHICAGO, ILL., FOR EACH MONTH AND YEAR FROM  
JANUARY, 1871, TO DECEMBER, 1892, INCLUSIVE.**

YEAR.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1871 .....	4.13	1.45	2.60	3.70	3.90	5.56	2.52	2.01	0.74	.....	3.62	3.44	.....
1872 .....	0.68	0.84	3.79	3.03	3.24	3.45	3.09	2.59	6.43	0.65	1.06	0.22	29.07
1873 .....	2.56	0.47	0.89	6.22	7.20	1.44	4.04	1.58	3.53	2.43	1.61	4.44	36.41
1874 .....	3.47	1.51	2.15	2.67	2.08	3.25	0.58	3.15	3.76	2.55	2.89	0.63	28.63
1875 .....	0.96	1.99	1.43	2.32	3.64	5.17	7.18	3.29	4.39	4.32	0.75	2.62	38.06
1876 .....	3.22	3.90	4.04	2.07	1.85	5.96	3.11	3.66	3.74	1.20	3.25	0.48	36.48
1877 .....	1.91	0.06	5.37	2.42	1.81	6.04	2.98	3.06	2.02	6.51	6.08	2.75	41.01
1878 .....	1.31	2.12	4.39	5.57	5.22	3.02	6.09	3.66	1.99	5.17	0.83	2.58	41.95
1879 .....	0.54	1.47	2.37	1.93	3.89	3.18	5.58	0.45	1.18	2.72	4.93	2.47	30.71
1880 .....	3.53	2.91	2.25	5.20	4.97	3.50	3.07	4.47	2.25	3.19	0.87	1.11	37.32
1881 .....	0.87	5.98	2.99	1.84	1.85	5.93	4.31	0.54	4.34	6.89	5.97	2.67	44.18
1882 .....	1.55	2.24	3.43	6.72	5.52	5.71	3.43	4.96	0.91	3.40	1.48	1.99	41.34
1883 .....	1.74	4.74	0.42	3.72	7.32	5.61	5.53	1.21	1.36	7.36	5.26	1.59	45.86
1884 .....	1.39	3.27	5.16	3.05	1.53	2.11	3.71	2.50	2.29	3.59	1.80	4.21	34.61
1885 .....	3.18	2.01	0.57	4.00	3.17	5.20	2.44	11.28	2.97	3.87	2.33	3.35	44.37
1886 .....	3.56	1.51	1.79	1.29	1.00	0.94	1.53	3.38	6.93	1.42	1.66	1.76	26.77
1887 .....	3.13	5.10	0.89	0.46	1.38	1.63	1.06	3.35	4.03	2.03	2.41	3.67	29.18
1888 .....	1.56	1.51	2.99	2.13	6.22	1.66	3.93	2.10	0.98	2.95	2.89	1.94	30.86
1889 .....	1.64	1.31	1.43	2.35	5.38	2.93	9.56	0.39	2.75	1.82	3.49	1.90	34.95
1890 .....	2.98	2.42	2.10	3.23	5.13	3.25	2.57	2.58	1.39	4.20	1.59	1.25	32.09
1891 .....	1.99	1.95	2.13	3.14	2.09	2.42	2.47	4.52	0.32	0.36	3.83	1.32	26.54
1892 .....	1.99	1.57	2.21	2.17	6.77	10.58	2.23	1.85	1.34	1.54	2.68	1.63	36.56
Sums .....	47.89	50.33	55.45	69.23	85.16	88.54	81.00	66.58	59.64	*68.17	61.22	48.02	*747.50
Means .....	2.17	2.28	2.52	3.15	3.97	4.02	3.68	3.04	2.71	*3.24	2.78	2.18	*35.59

\* 21 years only. Remainder for 22 years.

**DAILY PRECIPITATION AT CHICAGO, ILLINOIS, DURING 1892, EXPRESSED  
IN INCHES AND HUNDREDTHS.**

DATE.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November	December
1.....	.57	.04	.02	18	.84	.06	.....	.22	.....	.04	.49	.....
2.....	.01	.09	.....	.....	.50	.....	.60	.....	.....	.....	.19	.04
3.....	.....	.....	.....	.10	.39	.....	.81	.....	.....	.....	.....	.....
4.....	.....	.....	.31	.70	.....	.....	.09	.....	.04	.....	.16	.....
5.....	.....	Trace	.20	.15	1.66	.....	.....	.31	.01	.....	.....	.....
6.....	.02	Trace	.....	.....	Trace	.03	.....	.....	.....	.....	.14	.06
7.....	.07	.42	.14	.....	.....	.43	.....	.....	.12	.....	.04	.46
8.....	.01	.01	.....	Trace	.....	.37	Trace	.....	.04	.....	.....	.03
9.....	.....	Trace	.02	Trace	.10	.....	.02	.....	.02	.....	.....	Trace
10.....	.07	.05	.03	.....	.29	.....	.....	.04	.16	.....	.....	Trace
11.....	.46	Trace	.....	.....	Trace	.....	Trace	.....	.82	.....	.01	.....
12.....	.01	.....	.....	.....	Trace	.....	.....	.....	.01	.....	.....	.....
13.....	Trace	.08	.....	.02	.30	.44	.04	.....	.02	.....	.04	.85
14.....	.....	.10	.01	.52	Trace	.66	.....	.....	Trace	.....	.01	.01
15.....	.....	.....	.....	.....	.01	.....	.....	.15	.....	.10	.....	.....
16.....	.....	.....	.01	.....	.....	Trace	.....	.....	.....	.....	Trace	.....
17.....	Trace	.....	.01	.06	Trace	.45	.....	.....	.....	.....	1.43	Trace
18.....	.30	.09	.....	.....	.46	1.80	.09	.....	.....	.12	Trace	.08
19.....	.47	.25	.01	.....	.28	.40	.01	.20	.....	.....	.....	.03
20.....	.....	.....	.....	Trace	.01	.55	.....	.....	.....	Trace	.....	.....
21.....	.....	Trace	Trace	.18	.....	.25	.....	.....	.....	.....	.....	.03
22 ..	.....	.02	.53	Trace	.....	.67	.....	.....	.....	.....	.....	.....
23 ..	.....	Trace	.....	.....	.....	3.04	.01	.....	.....	.....	.....	Trace
24.....	.....	.16	.....	.....	.50	.81	.....	.48	.....	.67	.....	Trace
25.....	.....	.13	.....	Trace	.12	Trace	.....	13	.10	.11	.10	.03
26.....	Trace	.....	.20	.....	Trace	.42	.....	.....	.....	.....	.01	.....
27.....	.....	.....	.39	.03	.....	.79	.....	.....	.....	.....	.06	.....
28.....	.....	.08	.....	.03	.08	.03	Trace	.....	.....	.....	Trace	Trace
29.....	Trace	.05	.....	.....	.12	.09	.56	.....	.....	.....	.....	.01
30.....	.....	.....	.33	.20	.14	.02	.....	.32	.....	.....	.....	Trace
31.....	Trace	.....	Trace	.....	.07	.....	.....	.....	.....	.50	.....	.....
Total ..	1.99	1.57	2.21	2.17	6.77	10.58	2.23	1.85	1.34	1.54	2.68	1.63

Annual, 26.54

TRACE—Indicates precipitation too small to measure.

## CHICAGO.

YEAR.	ARRIVALS.		CLEARANCES.		TOTAL.	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
1883.....	11,303	3,555,586	11,271	3,743,574	22,474	7,299,160
1884.....	10,513	3,481,957	10,640	3,489,666	21,153	6,971,623
1885.....	9,846	3,347,647	9,910	3,364,169	19,756	6,711,816
1886.....	10,180	3,564,309	10,267	3,594,549	20,447	7,140,858
1887.....	10,828	3,868,465	10,920	3,989,615	21,748	7,856,080
1888.....	10,158	3,990,921	10,308	4,134,064	20,466	8,124,985
1889.....	9,552	4,417,415	9,462	4,403,634	19,014	8,821,049
1890.....	9,188	4,344,502	9,284	4,429,654	18,472	8,774,156
1891.....	8,956	4,569,526	9,144	4,698,320	18,100	9,267,846
1892.....	8,907	4,798,241	9,252	4,972,316	18,325	9,770,457

## SOUTH CHICAGO.

YEAR.	ARRIVALS.		CLEARANCES.		TOTAL.	
	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.
1890....	860	707,670	801	634,225	1,661	1,341,895
1891.....	847	870,188	734	724,864	1,581	1,595,052
1892.....	1,107	1,089,635	952	920,301	2,052	2,009,936

## ARRIVALS OF VESSELS IN THE DISTRICT OF CHICAGO, 1892.

PORT OF	VESSELS IN THE COASTWISE TRADE.						AMERICAN VESSELS IN THE FOREIGN TRADE.						FOREIGN VESSELS ENTERED.						TOTAL.	
	Steam.			Sail.			Steam.			Sail.			Steam.			Sail.			TOTAL.	
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
Chicago .....	5,176	3,607,834	3,759	1,127,168	8,928	4,735,002	8	2,719	76	25,353	84	27,982	41	27,835	20	7,422	61	35,257	9,073	4,738,241
So. Chicago...	749	928,024	368	161,611	1,107	1,089,635													1,107	1,089,635
Michigan City	312	66,019	64	12,721	376	78,750													376	78,750
Total .....	6,237	4,601,877	4,174	1,301,510	10,411	5,903,387	8	2,719	76	25,353	84	27,982	41	27,835	20	7,422	61	35,257	10,556	5,998,026

## CLEARANCES OF VESSELS IN THE DISTRICT OF CHICAGO, 1892.

PORT OF	VESSELS IN THE COASTWISE TRADE.						AMERICAN VESSELS IN THE FOREIGN TRADE.						FOREIGN VESSELS ENTERED.						TOTAL.	
	Steam.			Sail.			Steam.			Sail.			Steam.			Sail.			TOTAL.	
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
Chicago .....	5,219	3,708,108	3,729	1,105,020	8,948	4,813,128	92	67,526	149	53,049	241	120,625	44	31,352	19	7,111	63	38,463	9,232	4,976,216
So. Chicago ..	641	730,968	311	139,333	953	920,301													953	920,301
Michigan City	304	64,413	59	11,407	363	75,820													363	75,820
Total .....	6,164	4,503,489	4,099	1,255,760	10,263	5,809,248	92	67,526	149	53,049	241	120,625	44	31,352	19	7,111	63	38,463	10,547	5,998,337

**BRIDGE AND VIADUCT CONSTRUCTION.**

This branch of the service was in charge of Mr. W. M. Hughes, the Bridge Engineer. Mr. A. G. Riter is the principal assistant.

During the year plats have been prepared and estimates made for bridges at the following points :

- Blackhawk street, over the North branch.
- Belmont avenue, over the North branch (under contract).
- Carpenter street, over the North branch.
- Diversey street, over the North branch.
- Kinzie street, over the North branch.
- California avenue, over the west fork of the South branch.
- Robey street, over the west fork of the South branch.
- Wood street, over the west fork of the South branch.
- South Halsted street, over the South branch (under contract).
- Van Buren street, over the South branch.
- Wood street, over the Illinois & Michigan Canal.
- One Hundredth street, over the Calumet.

For viaducts at :

North Halsted street, between Carroll and Kinzie streets (under contract).

- Kedzie avenue, over the C. & N.-W. tracks.
- Rush street, over the C. & N.-W. tracks on Kinzie street.
- Robey street, between Thirteenth and Eighteenth streets.
- Twelfth street, over Pan Handle tracks, near Rockwell street.

For subways at :

- Sixty-third and State streets.
- Sixty-third street, from State street west.
- Robey street, between Fourteenth and Eighteenth.
- Western avenue, under C., B. & Q. R. R.

**NEW END PIER AND ABUTMENT AT THE EAST END OF INDIANA STREET BRIDGE.**

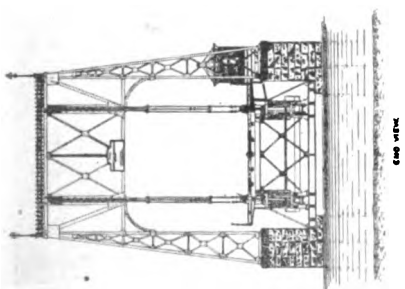
On June 28, the contract was let to the Heidenreich Company for the pier work, time limit based on 60 days' work in which to finish. The Company completed their contract on December 15, having overrun their time 106 days, owing to delays of various kinds. The total cost of the pier was \$20,368.82. This work was required because the old abutment was badly cracked and tilted, and liable to slip into the river at any moment.

**BEAM SPAN BETWEEN PIER AND ABUTMENT AT INDIANA STREET BRIDGE.**

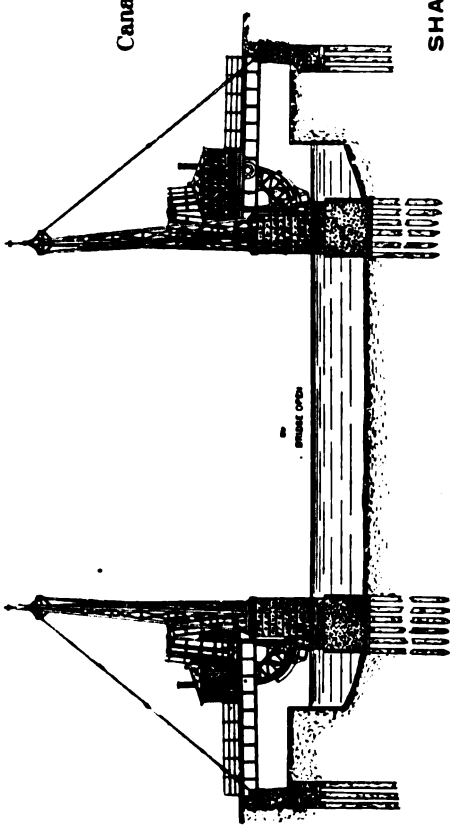
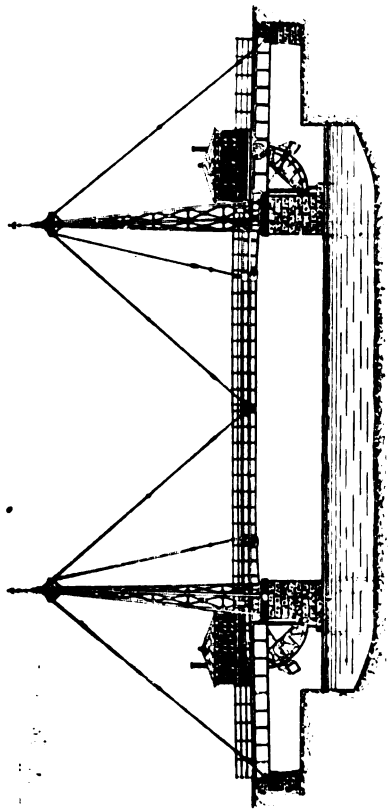
The contract for the beam span to cover the space between the new pier and the abutment, above mentioned, was let to the King Bridge Company on July 12, for \$1,376.00. The total weight of the iron and steel, exclusive of the cast-iron curbs at the end of the roadways, was 24,470 pounds. This span was completed December 15, when the bridge was re-opened.







ELEVATED VIEW



Canal Street Folding Bridge,  
Over the South Branch  
of the Chicago River.  
Chicago Ill.  
1892.



**SHAILER & SCHNIZLAU,**  
CONTRACTORS.

R. H. BALDWIN, DEL.





## NEW NORTH HALSTED STREET VIADUCT.

The old viaduct on North Halsted street, between Carroll avenue and Kinzie street, had become so greatly deteriorated by corrosion as to be positively dangerous. Acting upon the warning of the City Engineer, the Commissioner of Public Works closed the old viaduct to traffic on July 2. On June 27, bids for the old iron in the structure were opened, and the material was about to be sold to Wm. McHugh when the Swartz Iron & Metal Co., who held the 1892 contract for the purchase of the old material from the city bridges and viaducts, enjoined the City from the above sale, claiming the material in the old structure under their contract. This litigation was the cause of considerable delay, and it was not until July 25 that Sackley & Peterson were able to commence removing the old masonry, preparatory to building the new piers and abutments. This substructure contract included the removal of the old abutments and the building of two new abutments, one set of four pedestal piers and three new main piers, together with the raising of curb walls and new sidewalks, and the filling and repaving of that portion of each approach between the raised portion of the walls.

This work was entirely completed on Nov. 7, at a cost of \$19,914.82, of which the Chicago & North-Western Railway Co. paid \$7,478.76, the Pittsburgh, Cincinnati, Chicago & St. Louis Railway Co. \$3,706.72, and the Chicago, Milwaukee & St. Paul Railway Co. \$8,729.14.

On July 5 the contract for the superstructure was let to the Milwaukee Bridge and Iron Works. The first consignment of steel for the structure was on the site on November 7. The iron work is now all in place, and the new structure will probably be opened not later than April 1.

The contract amount for superstructure is \$54,400.00, all of which has been paid by the three railroad companies over whose tracks the structure extends. The total weight of iron and steel in the structure is 1,483,472 lbs.

## CANAL STREET BRIDGE.

The original Canal street Howe truss swing bridge which was finished in 1890, and which, owing to its being a serious obstruction to navigation, was the cause of protracted strife between the navigation interests, the City and the General Government, was finally taken down by the City on or about July 15, and by ordinance passed by the City Council on June 13, was removed to Belmont avenue on the North branch and piled upon the east bank of the river at that point, pending the erection of a suitable substructure for the same. On June 15 the Council passed an order giving to Messrs. Shailer & Schniglaui the contract for a folding bridge of the Harman pattern, to have a clear draw of 80 ft. width, the total cost of same, including substructure, to be \$40,000.00. To this will be added the cost of new approaches and also a new dock on the south side of the river.

## SOUTH HALSTED STREET BRIDGE.

On June 30, at 9.10 A. M., the steamship "Tioga," in tow of the tug "Gardner," ran into and totally wrecked the old King swing bridge at South Halsted street, over the South branch. Steps were immediately taken looking to the erection of a new bridge, and plans were made covering the ground for a single roadway bridge, a double roadway folding bridge, and a double roadway swing bridge similar to Madison street bridge. Plans for the substructure of the last-named bridge were prepared, and on August 18 the bids were opened, the Chicago Dredging & Dock Co. being the lowest bidders. Meanwhile, however, the Lake Carriers' Association, aided by the Drainage Commissioners, laid before the Secretary of War data tending to show that the center pier and protection of a double track swing bridge would be a serious obstruction to both navigation and drainage, and demanded a bridge having a clear draw in the middle of the channel. Acting upon these representations, the War Department refused to approve the City's plans for a double swing bridge at this point, and thereupon ensued a delay of several weeks, during which various schemes were proposed and negotiations had with reference to providing a bridge which would be acceptable to all conflicting interests.

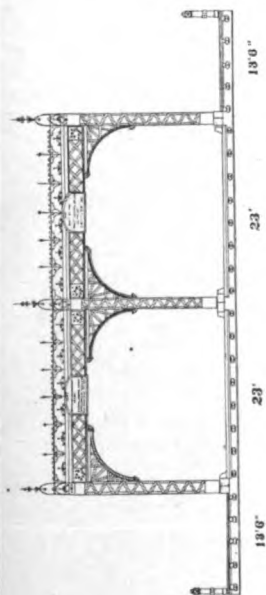
On September 28, 1892, the Council Special Committee reported in favor of a counter-weight lift bridge, having a spacious center channel, and lift to a height sufficient to clear the masts of vessels. On October 3, the Council passed an order directing the Commissioner of Public Works to advertise for bids for such a bridge, "upon such plans and specifications as he may deem to be for the best interests of the public, and award said contract to the lowest responsible bidder."

The Waddell lift bridge was chosen by the Commissioner, and on October 24 bids were opened, the Pittsburgh Bridge Company being the lowest bidder. Just as the contract was about to be signed, the Lake Carriers' Association brought forth objections, this time to the clearance of 140 feet shown on the original plans. Here ensued another delay, during which the plans were altered to give the demanded clearance of 155 feet, after which the Secretary of War approved the plans, and on November 10 the contract was closed with the Pittsburgh Bridge Company.

The shop drawings for the superstructure are now being prepared.

## BELMONT AVENUE BRIDGE.

As stated in the description of the improvement being constructed at Canal street, the superstructure of the original bridge was removed to Belmont avenue and the North branch. In compliance with an order of Council, passed July 25, plans for a suitable substructure were prepared, and bids for the same were opened on October 25, the Chicago Dredging & Dock Company being the successful competitor. On October 27 the contractor's dredge was at work and the engineers were on the site laying



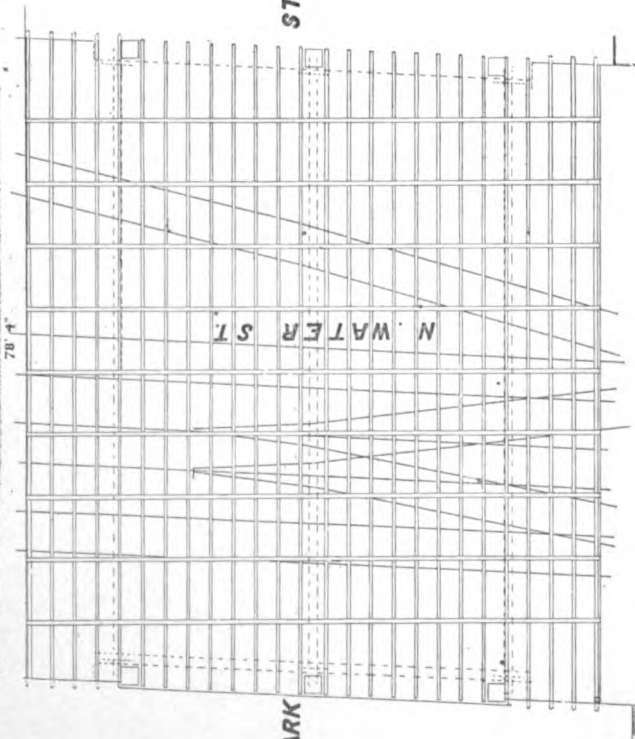
# **PLAN OF THE** **North Clark Street** **Viaduct** Chicago Ill. 1892.



CLARK ST.

N. WATER ST.

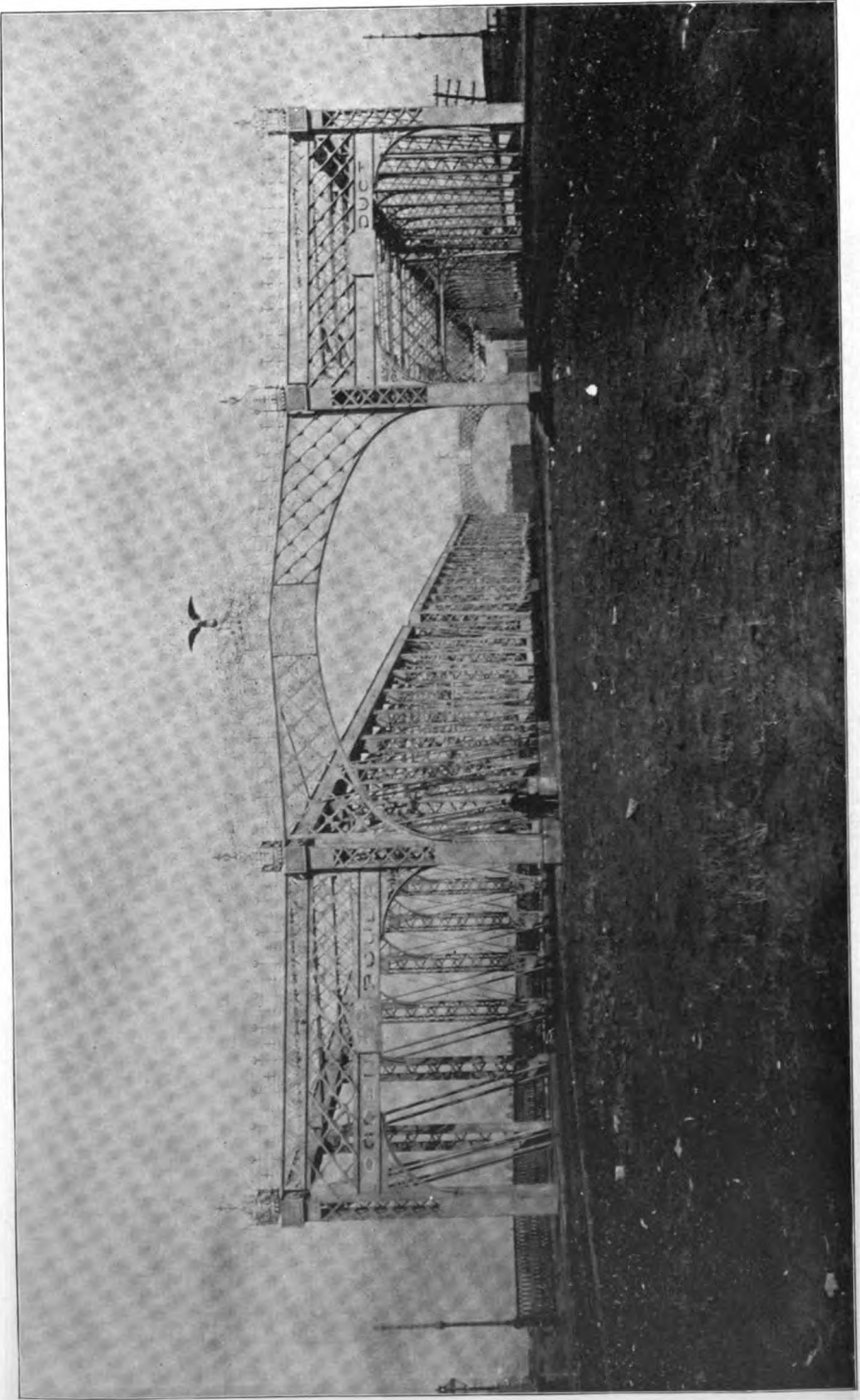
CLARK



A. GOTTLIEB & CO., CONTRACTORS.  
 R. H. BALDWIN, DEL.







JAMES KINCADE, SUB-STRUCTURE.

OGDEN BOULEVARD VIADUCT.

AMERICAN BRIDGE CO., SUPER-STRUCTURE

out the work. Rapid work was done for three days, and then came F. W. H. Sundmacher and H. J. C. Glade, armed with an injunction against the City and contractor, enjoining the same "from interfering with their possession of Lot 19, directly or indirectly; or going upon the same, or removing that portion of the bed of the North branch of the Chicago river lying west of the entire center of the river along Lot 19, or removing the present Belmont avenue bridge, or excavating any portion of Belmont avenue opposite Lot 19." Now, as the above injunction totally precluded any possibility of constructing the substructure as designed, no other course was left but to suspend operations until such time as the injunction shall have been dissolved.

#### NORTH CLARK STREET VIADUCT.

The old superstructure of the viaduct on North Clark street, over North Water street, which was erected in 1872, had for some time been in a dangerous condition, and had been shored up to enable it to carry traffic safely. On July 18 the Council passed an order directing the Commissioner of Public Works to arrange with the Chicago & North-Western Railway to pay for the rebuilding of this structure. These negotiations having been satisfactorily completed, on August 17 bids were opened, and the contract for the work awarded to the Mount Vernon Bridge Company, the cost of the superstructure being \$9,981.60, inspection \$99.36, alterations of masonry and approaches \$1,368.91; making the total cost \$11,449.87. The old bridge seats and copings were removed and new seats and copings set by the City Bridge Department. The total weight of iron and steel, exclusive of the cast-iron curbs at ends of the roadways, was 211,688 lbs.; with curbs, 220,793 lbs.

#### OGDEN BOULEVARD VIADUCT.

This very important structure, the substructure of which was begun on March 25, 1891, and finished on June 17, 1892, was completed and opened for traffic on July 16, 1892, although the street cars went over on July 15, 1892. This viaduct was fully described in the annual report for 1891, and is herein illustrated by plates.

Owing to the fact that the West Park Commissioners did not fulfill their agreement to pay \$17,000 towards the cost of this viaduct, the central or boulevard driveway remains unpaved, the City not desiring to spend any money for the benefit of the Park Commissioners. The total weight of iron and steel in the structure is 2,653,720 lbs.; and the cost, divided between the City and the different railroad companies was as follows: C. & N. P. R. R., \$40,000; Union Stock Yards, \$7,812.46; C. & N-W. Ry., \$27,697.04; P., C., & St. L. R. R., \$33,635.49; City of Chicago, \$113,645.47. Total, \$222,790.46.



## CENTRAL AVENUE VIADUCT.

This structure, which was to be extended along and over Central avenue from the Randolph street viaduct to River street, crossing the river by means of an upper deck to be added to Rush street bridge, and thence by viaduct to Pine street, was called up again for plat and estimate by Council order of July 18. Nothing was done, however, and the matter is still in abeyance.

## KINZIE-CANAL VIADUCT AND KINZIE STREET BRIDGE.

In accordance with Council order passed January 25, plats and estimates were made for a viaduct along Kinzie street, extending from the present Milwaukee avenue viaduct at Desplaines street to Kingsbury street, with a main approach down Kinzie street to Franklin street, and a side approach on Market street from Kinzie street to Michigan street. In connection with this, there was to have been built a viaduct on Canal street from Kinzie to Fulton street, with a main approach from Fulton to the center of Lake street, and a side approach on Carroll avenue from Canal to Clinton street, immediately east of the Kinzie-Canal junction of these structures, and over the North branch of the river, was to have been built a double track, double deck swing bridge, with a clear channel of 70 feet, the upper deck on a level with the viaduct, the lower at about the grade of the present bridge. Nothing definite was accomplished, however and the matter now rests with plats and estimates prepared. In regard to Kinzie street bridge, however, plats and estimates have been prepared for two schemes—one for a permanent improvement consisting of a bascule or lift bridge, on the west side of the river, giving a clear channel of 72 feet, and a span therefrom to an abutment just east of the east dock; the other for a temporary wooden bridge, with pile and timber abutments and center pier, the span to be the same as that of the present bridge, with the same clearance of channel, viz: 55 feet.

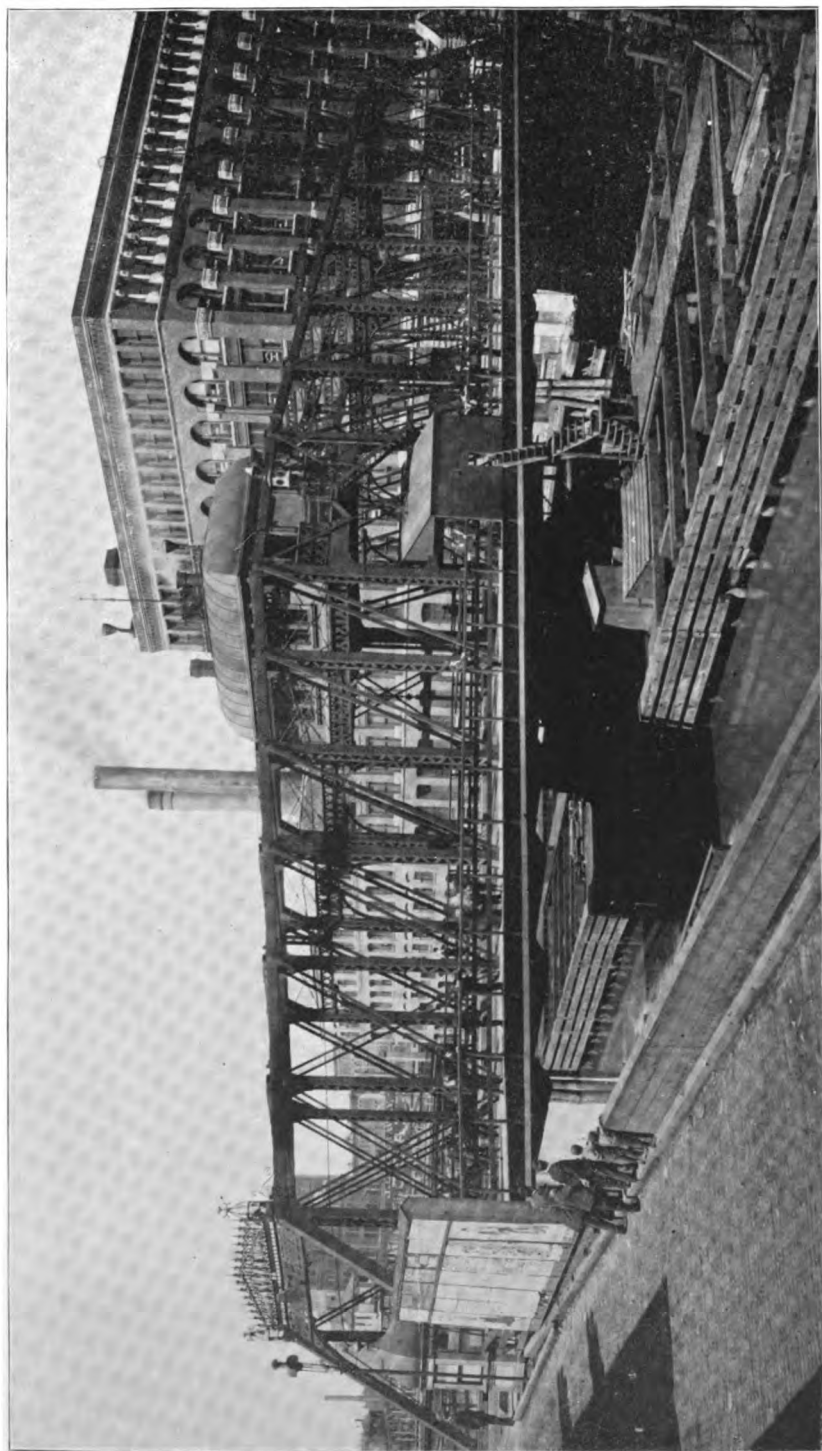
## MISCELLANEOUS.

A Council order was passed calling for a plat and estimate for a bridge at Carpenter street, over the North branch, but it was shown that Carpenter street ended at a slip end some distance south of the river, and the fact that a plat and estimate had been made for a bridge and viaduct at Sangamon street, one block east of Carpenter street, was mentioned.

## HOMAN AVENUE VIADUCT.

A plat and estimate for a viaduct on Homan avenue, over the C. & N-W. Ry. tracks on Kinzie street was ordered, but as it was shown that only one-half of the street was legally opened on each side of Kinzie street, and the alternate sides at that, this project was dropped and the scheme for a viaduct at Kedzie avenue, one block east, was revived, as a substitute, but no definite action was taken.





**RITER & CONLEY, SUPER-STRUCTURE.**

**MADISON STREET SWING BRIDGE.  
EXCELSIOR IRON WORKS, MACHINERY.**

**THE FITZ-SIMONS & CONNELL CO. SUB-STRUCTURE.**

## EAST TAYLOR STREET VIADUCT.

After many months of delay, during which various schemes for a viaduct on East Taylor street have been brought forth by the City, the West Chicago Street Railroad Company and the Chicago & Northern Pacific Terminal Company, discussed and abandoned, permission was finally granted the C. & N. P. T. Co. to construct a viaduct. The company prepared their own plans, subject to approval by the Commissioner of Public Works and City Engineer, and will erect and complete this structure entirely at their own expense, but under City supervision.

## FOURTEENTH STREET BRIDGE AND VIADUCT.

Under the ordinance of July 20, 1891, by which the Chicago & Northern Pacific Terminal Company are compelled to build the East Taylor street viaduct, the same company is also compelled to build a single roadway viaduct on West Fourteenth street from the west side of the river, or west pier of the river bridge to the centre of Dodge street, granting the City a perpetual easement for the viaduct over their property at this point, paying for the whole of the structure and for the said west pier of the river bridge, the said viaduct and west pier to be built at such time as the City may decide to build the river bridge and East Fourteenth street viaduct.

Plats and estimates which were left over from 1891, are on hand for bridges, viaducts and subways at the following points:

- May and Kinzie streets, viaduct.
- Lincoln and Kinzie streets, viaduct.
- Randolph street and South branch, swing bridge.
- Easterly extension of the Eighteenth street viaduct.
- Forty-third and Clark streets, viaduct.
- Forty-third and Clark streets, subway.
- Forty-third and Stewart avenue, viaduct.
- Lake and Rockwell streets, viaduct.
- Jefferson and Sixteenth streets, viaduct.
- Halsted, Thirty-ninth to Root street, viaduct.
- Union and Sixteenth streets, viaduct.
- West North avenue, viaduct.
- West Division street, viaduct.
- California avenue, Fulton street to Chicago avenue, viaduct.
- Robey and Sixteenth streets, viaduct.
- Ashland and Sixteenth streets, viaduct.
- Ashland and Sixteenth streets, subway.
- State and Sixty-third streets, subway.
- State and Sixty third streets, viaduct.

## MADISON STREET BRIDGE.

This bridge is the first of the two-truss four-track type of bridge to be erected. The contractors were the Fitzsimons and Connell Co., substructure; Riter & Conley, Pittsburgh, Pa., superstructure, and Excelsior Iron Works, machinery.

## UNFINISHED WORK.

The California avenue canal bridge, which was completed last summer, is still without approaches, although an estimate was made for the same last fall. It is entirely unlikely that this bridge will ever have any other than temporary approaches, and then for a comparatively short time only, as the Drainage Commissioners have adopted the canal route for the new drainage canal. This will necessitate rebuilding all the canal bridges, changing them from fixed to swing bridges of about 300 feet span, while the present bridges are only for 100 to 120 feet span.

## BRIDGE AND VIADUCT REPAIRS.

Mr. J. E. Roemheld is the engineer in charge of this branch of work, and under his supervision the following sums have been expended in the different divisions of the City:

North division bridges....	\$ 55,263 86
South division bridges.....	40,266 45
General division bridges.....	9,643 35
North division viaducts.....	11,843 30
South division viaducts.....	17,952 92
North division approaches.....	2,862 96
South division approaches.....	3,714 46
Miscellaneous.....	11,904 47
	<hr/>
	\$153,451 77
Less amount charged to other appropriations,	6,552 66
	<hr/>
Total .....	\$146,899 11

## MAIN SEWERAGE WORKS.

## CANAL PUMPING STATION.

The canal pumping station, located at the junction of the Chicago river and the Illinois & Michigan canal, lifts the water of the former into the latter. A part of the entire number of four sets of centrifugal pumps has been in operation all the year. The inlet channel was cleaned thoroughly during the spring and summer by means of dredging buckets operated by a hoisting apparatus on the bank. The old wooden screen was replaced by an iron one, giving a greater cross-section of flow.

The average amount of sewage pumped per minute was 43,528 cubic feet, the greatest quantity being 50,826 cubic feet. The total quantity pumped during the year aggregated 22,258,338,830 cubic feet.

The City has a contract with the Courtwright Hydraulic Manufacturing Company to erect, in place of the old centrifugal pumps, four sets of their new undulatory pumps, each of which is guaranteed to lift 25,000 cubic feet per minute against a 6' head. The nominal capacity of the old pumps





being 15,000 cubic feet per minute the increase in total capacity will be 40,000 cubic feet per minute, or 66 $\frac{2}{3}$  per cent. A new set of boilers of a corresponding excess in power over the old one has also been put in.

Mr. Francis Murphy, of the City Engineer's staff, has been looking after the new construction, co-operating with Mr. Rudolph Beister, the engineer in charge of the station.

#### FULLERTON AVENUE PUMPING STATION.

The Fullerton avenue pumping station, located on the North branch of the Chicago river at Fullerton avenue, receives water through a 12' brick tunnel from the lake and lifts it into the North branch, thus partly purifying the water of the latter and giving it head enough for flow toward the canal pumping station.

The total quantity of water pumped at this station during the year 1892 was 5,353,573,440 cubic feet against an average head of 2.17'.

Mr. A. B. Howell is the engineer in charge.

#### WATER SUPPLY SYSTEM.

The general care of this branch of the service was intrusted to the First Assistant City Engineer, Mr. Bernhard Feind, who, however, resigned on July 1, in order to devote himself to private practice, the position remaining vacant for the balance of the year.

The appended diagram shows the daily pumpage of each station, separately and all combined, with the quantities, heads and temperature. Table A gives the monthly and annual pumpages; Table B gives the most important figures relating to quantities and expenses.

The total quantity of potable water pumped during the year 1892 into the street mains of the City, by all the pumping stations combined, was 71,035,462,221 gallons, which makes a daily average of 194,086,000 gallons for the whole City. Placing the population of the City about July 1, 1892, (on the basis of the school census) at 1,450,000, this would give 134 gallons per head per day. This is one gallon less than the average per head per day during 1891.



TABLE "A." MONTHLY PUMPAGE IN GALLONS, 1892.

MONTH.	North Pumping Works.	West Pumping Works.	66th Street Pumping Works.	Central Pumping Works.	Lake View Pumping Works.	Washington Heights Pumping Works.	14th Street Pumping Works.	The City as a Whole.
January . . . . .	1,905,735,245	1,884,408,160	1,029,648,171	480,451,980	238,674,986	5,075,000		5,543,998,552
February . . . . .	1,642,321,100	1,801,826,780	966,581,498	459,645,404	295,354,560	5,170,000	4-mile tunnel	5,170,899,332
March . . . . .	1,892,903,930	1,910,924,100	1,040,531,574	489,805,681	259,300,206	5,870,000		5,599,335,491
April . . . . .	1,824,778,985	1,870,629,200	968,575,679	473,781,643	233,785,971	6,015,500	not yet	5,402,516,978
May . . . . .	1,799,937,540	1,836,380,020	1,042,514,281	624,614,647	265,436,690	6,390,000	finished.	5,575,278,178
June . . . . .	1,804,275,220	1,818,521,840	1,038,896,803	908,767,877	313,389,357	6,600,000		5,885,450,897
July . . . . .	1,963,497,820	1,899,229,500	1,121,480,315	680,186,618	359,581,123	7,170,000		5,971,096,875
August . . . . .	2,161,000,340	1,873,820,640	1,005,069,788	493,642,335	386,594,632	7,645,000	901,847,638	6,829,620,868
September . . . . .	2,005,500,695	1,781,876,780	1,054,265,760	737,012,484	365,540,466	6,555,000	897,807,926	6,348,559,113
October . . . . .	1,834,768,640	1,937,420,860	1,131,322,126	982,916,340	368,289,070	6,185,000	Shut down to make c'nn'ct'ns	6,255,851,536
November . . . . .	1,798,402,865	1,835,145,960	1,012,010,770	944,170,352	338,423,657	6,005,000		5,934,158,104
December . . . . .	1,863,462,635	1,797,151,860	912,290,216	716,866,735	327,202,068	6,230,000	896,064,788	6,518,708,297
Totals.	22,496,584,515	22,237,835,200	12,348,076,781	7,936,362,096	3,740,522,782	74,860,500	2,195,720,847	71,035,462,221

TABLE "B."—OPERATIONS OF PUMPING STATIONS, CHICAGO, DURING 1892.

	North Side.	West Side.	68th Street.	Central.
Anthracite Coal, tons.....	12,759.1888			
Bituminous " ".....	6,491.1888	18,562.1888	4,511	4,457.
Gallons of Fuel Oil.....			1,196,613	
Price of Anth. Coal per ton.....				
Price of Bitum. " ".....	\$5.39	\$2.61	\$2.86	\$3.08
Price of Fuel Oil, 100 gallons.....	3.18		1.20	
Cost of Anthracite Coal.....				
Cost of Bituminous ".....	\$68,498.86			
Cost of Fuel Oil.....	20,644.00	\$48,537.21	\$12,901.43	\$14,130.92
Total Cost of Fuel.....			14,359.36	
Total Cost of Fuel.....	89,433.86	\$48,537.21	27,260.79	14,130.92
Salaries.....	46,477.20	43,990.51	39,485.96	34,375.43
Cost of Oil and Stores.....	11,483.20	8,315.71	4,570.10	4,539.16
Total Expenses due to Pumpage.....	147,834.26	100,843.43	71,316.85	53,545.52
All other Expenses combined.....	2,409.37	282.27	3,773.79	870.10
Grand Total of Expenses.....	149,793.63	101,075.70	75,090.64	54,415.62
Total Gallons Pumped during the year.....	22,496,584.515	22,237,335.200	12,348,076.781	7,938,901.941
Per cent. of Pumpage of City as a whole.....	31.6	31.3	17.	11.1
Greatest amount pumped in one day, gallons.....	74,277.740 Aug. 13	63,446.240 Mar. 21	41,463,804 Sep. 23	32,289,629 Oct. 22
Least amount pumped in one day, gallons.....	41,729.820 Feb. 7	46,814.360 May 22	9,177,156 Aug. 14	9,890,635 Jan. 21
Average pumped per day, gallons.....	61,466,080	60,770,000	83,830,345	21,683,230
Average head against pumps, in feet.....	105	101.8	131.	99.5
Cost of fuel pumping 1,000,000 gallons, per foot head.....	3.78c	2.78c	2.78c	1.76c
Total cost of pumping 1,000,000 gallons, per foot head.....	6.78c	4.78c	4.78c	6.78c

TABLE "B."—OPERATIONS OF PUMPING STATIONS, CHICAGO, DURING 1892—CONTINUED.

	Lake View.	Washington Hts.	14th Street.	The City as a Whole
Anthracite Coal, tons.....				13,891.455
Bituminous " ".....			1,231.5	43,924.88
Gallons of Fuel Oil.....	8,887.46	415		1,196.613
Price of Anth. Coal per ton.....				\$5.39
Price of Bitum. " ".....	\$1.44	\$2.59	\$5.40	2.62
Price of Fuel Oil, 100 gallons.....				
Cost of Anthracite Coal.....				\$ 76,079.67
Cost of Bituminous ".....	\$12,715.72	\$1,094.92	\$6,650.81	110,024.20
Cost of Fuel Oil.....				14,359.36
Total Cost of Fuel.....	12,715.72	1,094.92	6,650.81	199,814.23
Salaries.....	18,838.95	2,194.98	12,435.01	198,293.04
Cost of Oil and Stores.....	3,015.42		1,520.94	33,444.53
Total Expenses due to Pumpage.....	34,565.09	3,389.90	20,806.76	431,551.80
All other Expenses combined.....	1,586.03		551.18	9,422.69
Grand Total of Expenses.....	36,151.12	3,389.90	21,157.89	440,974.49
Total Gallons Pumped during the year.....	3,746,522.782	74,860.500	2,195,720.375	71,035,462.221
Per cent. of Pumpage of City as a whole.....	5.2	0.1	3.1	100
Greatest amount pumped in one day, gallons.....	17,978.278 Aug. 22	275,000	This station was not com-	241,000,000
Least amount pumped in one day, gallons.....	2,708.150 Jan. 9	Broke down July 2	pleted during the early	145,400,000
Average pumped per day, gallons.....	10,264.446	205,090	part of the year 1892	194,086,000
Average head against pumps, in feet.....	108	103	14,011.030	110.5
Cost of fuel pumping 1,000,000 gallons, per foot head.....	3.55c	14. c	7.5c	2.52
Total cost of pumping 1,000,000 gallons, per foot head.....	8.85c	42.8c	7.6c	5.85c





## NORTH SIDE PUMPING STATION.

At the North Side pumping station, which is in charge of Mr. D. H. Welch, on the 21st of January, 1892, at 6 a. m., all the engines except the "72" engine had to be stopped on account of a blockade of ice at the two-mile crib. At 2 p. m. all the engines were running again. On the morning of January 28 it became necessary to stop the two Gaskill engines on account of an accumulation of ice in the well, but at noon they were running again. Early in February the Gaskill engines were overhauled.

In June a large part of the wooden-box sewer, used for carrying off the hot well overflow from the engines, caved in, causing a flowing of the coal shed and one fire-room. There should be a brick sewer built to take the place of this decayed wooden one.

On the 13th of October, at 2 a. m., the large "72" engine burst the outer casting of one pump. At the time it gave way there was the pressure on which is usual for that time of night. The repairing, which occupied fifteen days, was done by the employes of these works.

The old marine boilers should be removed as soon as possible, and ten or twelve smaller tubular boilers should be substituted, enclosed in a new boiler house.

## SHOPS.

The following table will show the number of hydrants and stop-valves made at the machine shops during the year 1892 :

## NEW HYDRANTS AND STOP VALVES.

	On Hand Jan. 1, 1892.	Manuf'd in 1892.	On Hand Jan. 1, 1893.
Single nozzle hydrants.....	105	192	26
Double 2½ inch nozzle hydrants.....	295	311	51
4 inch stop valves.....	12	14	4
6 " " ".....	53	181	30
8 " " ".....	49	487	65
12 " " ".....	49	241	70
16 " " ".....	11	42	7
24 " " ".....	4	6	4
	2	15	3

The total expenditure for labor and material on account of

shop, including value of stock on hand January 1, 1893, is...\$56,130.32

Cost of tools, previously reported..... 17,058.17

Add new tools..... 10.93

Add for repairs of tools and machinery..... 599.72

**\$17,668.82**

## WEST SIDE PUMPING STATION.

At the West Side pumping station the four 15-million-gallon engines, in charge of Mr. James Stewart, have been running almost continuously during the past year, and, as the preceding table shows, have pumped an excess of 770,000 gallons daily over the theoretical capacity. This hard and constant running has made it necessary to overhaul the engines at the earliest practicable moment.

The twelve boilers in this station are at present in fair condition, having undergone considerable repairs a year ago, but a former suggestion is here renewed—that six new boilers be placed in the north fire-room as soon as possible.

## CENTRAL PUMPING STATION.

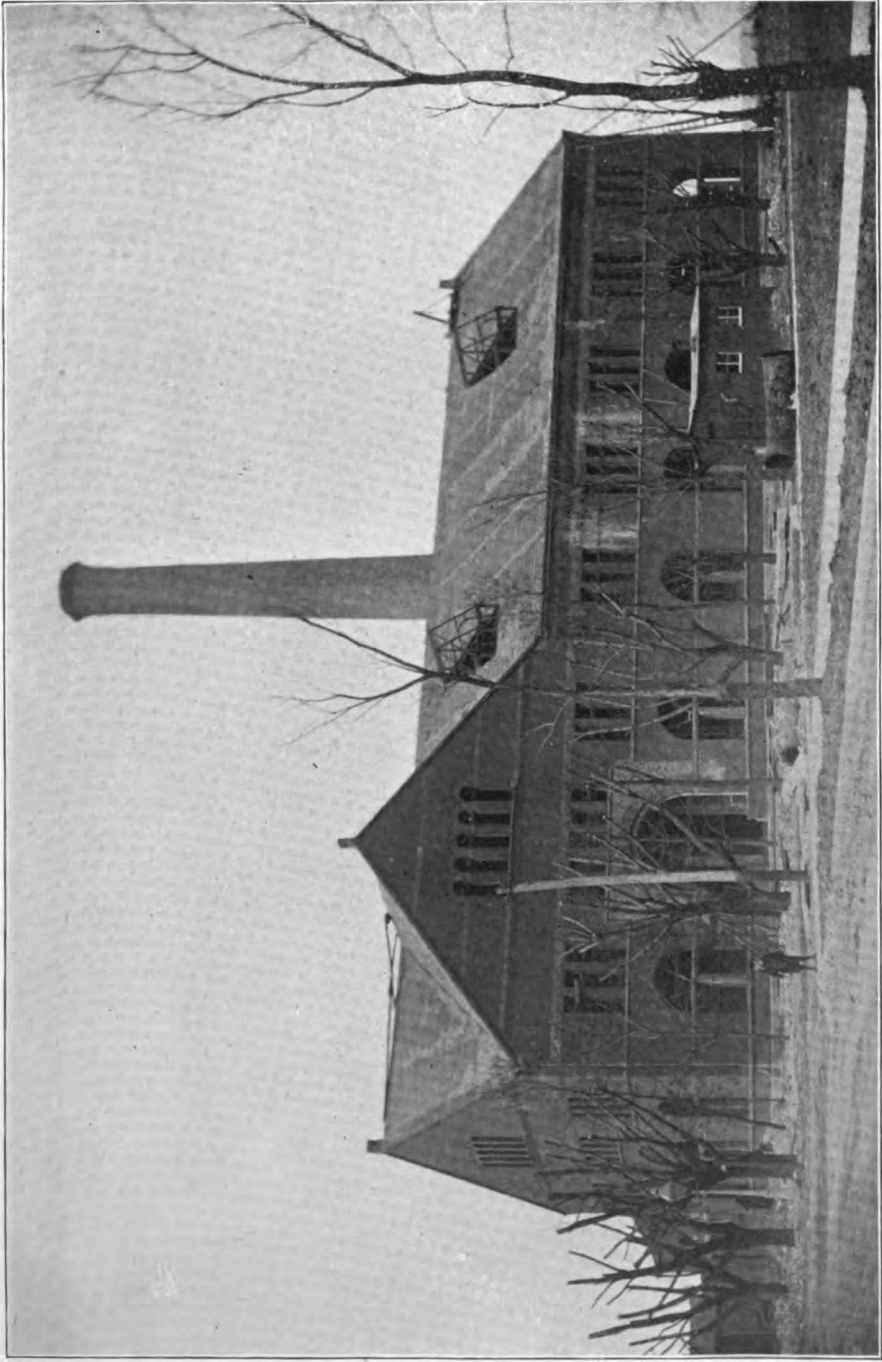
At the Central pumping station, which is in charge of Mr. Philip Petrie, everything has been in good working order. One thing, however, remains to be done to make the station perfect, according to the original plans: The west ten feet of the boiler and coal houses have not been finished pending the litigation concerning the strip of land of that width. Now the City has been put into possession of the ground, and the temporary wooden wall should be at once replaced by a brick wall, as originally designed.

## LAKE VIEW PUMPING STATION.

This station has received during the year an addition in the shape of a 12-million Gaskill Engine, which is now being operated, drawing its water from the temporary intake 6,500 feet from shore (see Lake View Tunnel). The old building has been enveloped in a new one, the walls of which are up, the iron roof of which, however, has not yet been completed. The old boilers have been swung around and placed in line with the new boilers furnished with the new engine. All the boilers have been provided with Hawley down-draft furnaces, which are doing very well, both in point of economy of fuel and prevention of smoke. A new large outlet is being provided for the station by a pipe line on Sulzer street west, 36" from the station to Western avenue and 24" thence to a point near Montrose station, at the intersection of the C., M. & St. P. and C. & N.-W. railroads. This pipe line will give a good pressure to the thriving settlements in this district of the old town of Jefferson, which has so far been supplied from the North Side pumping station by an 8" pipe on Milwaukee avenue, and will afford a good chance for temporary improvement of the water supply of the north-western portion of the old City by sending southward large branches. The capacity of the pumping station is now 31-million gallons; the capacity of the new tunnel exceeds 70-million gallons per 24 hours.

The contractors for the new building are D. H. Hayes and the King Bridge Co., the latter for the iron roof.

Mr. Wm. Klewer was the architect, and Mr. John B. Hittell was the engineer, in charge of construction.



LAKE VIEW PUMPING STATION.

C. P. KEMBLE, PHOTO.





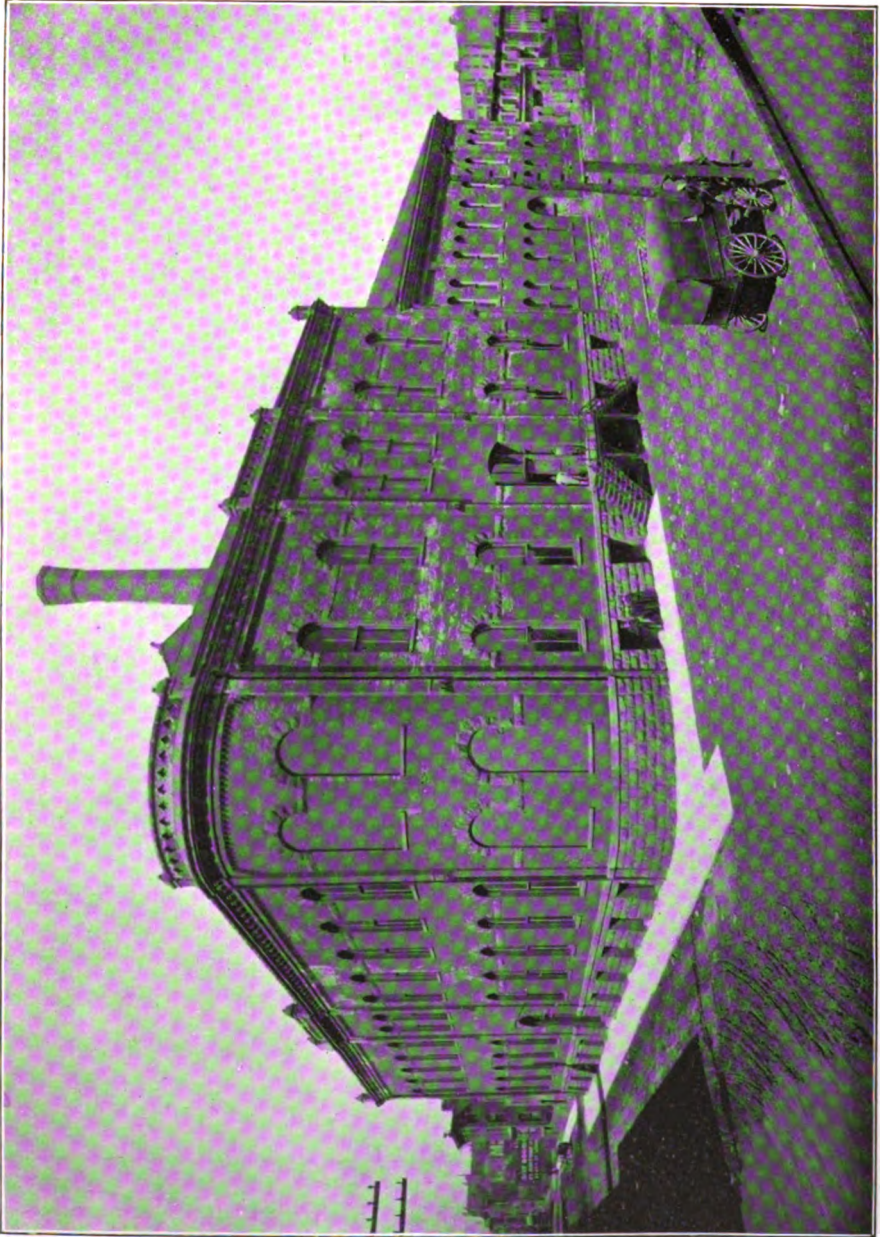




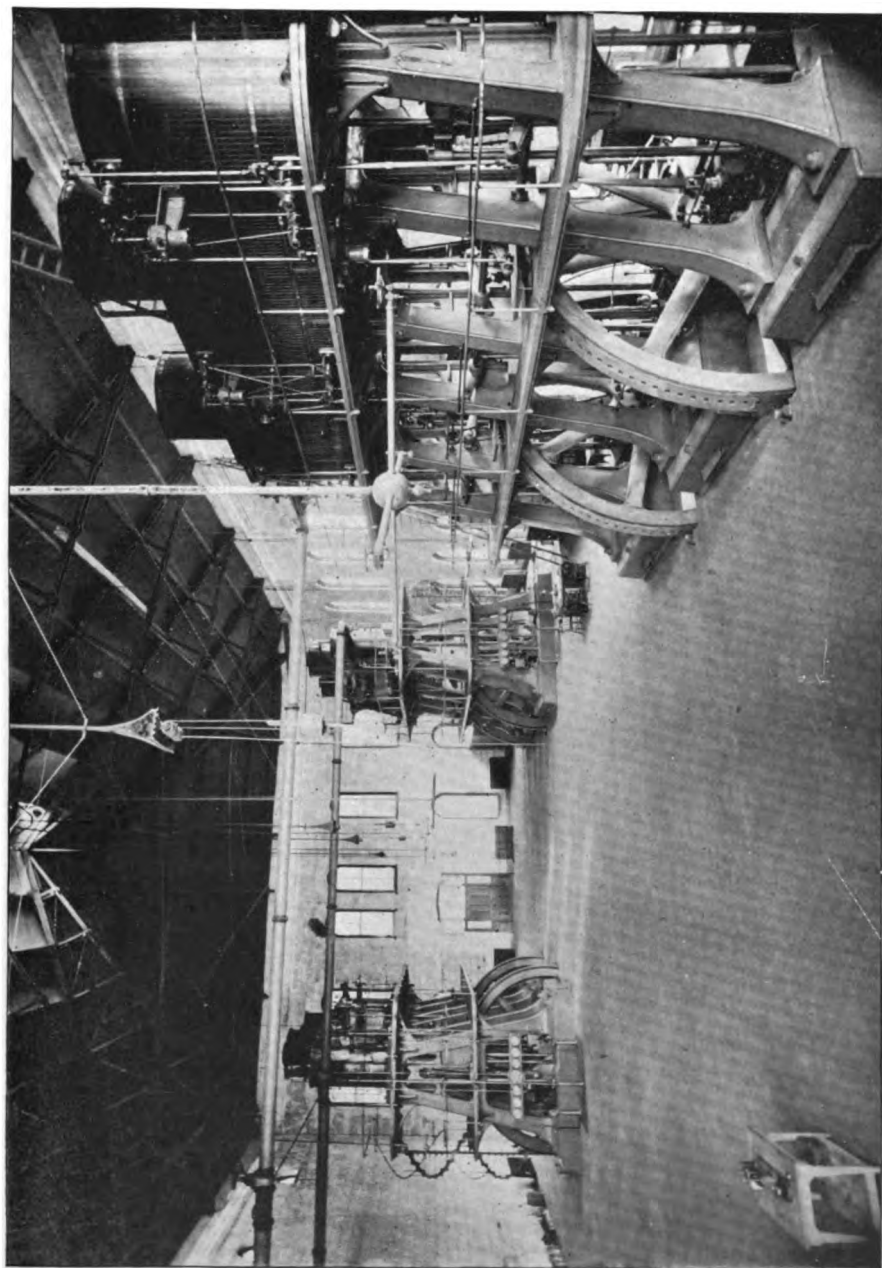








FOURTEENTH STREET PUMPING STATION.



INTERIOR OF FOURTEENTH STREET PUMPING STATION.





## FOURTEENTH STREET PUMPING STATION.

The Fourteenth street pumping station, which is in charge of Mr. Chas. McDonald, and contains three Triple Expansion Engines of the same type and size as those at the Central pumping station, of a guaranteed capacity of 15-million gallons each, with two-thirds of the boiler capacity running, built by the Edw. P. Allis Co., of Milwaukee, has been in operation for a portion of the past year. It was at first temporarily provided with water from the Chicago avenue tunnel system by means of the Jefferson street tunnel and the Park Row by-pass. This supply was admitted on June 10th. After this date such portion of the machinery was kept running as the supply of water would permit, but it became necessary to shut down altogether during the freshets in July, which compelled the absolute closing of the North Shore inlet extension, so that no water could be spared for this station. After the water was let into the four-mile tunnel on the 7th of December, the engines have been running regularly, drawing their supply from the four-mile crib.

As to the building, a further outlay will be necessary to make it complete in its minor details.

## SIXTY-EIGHTH STREET PUMPING STATION.

At the Sixty-eighth street pumping station, which has been in charge, first of Mr. A. O. Parker, then of Mr. Thos. Reynolds, and at the present writing (March 20), is in charge of Mr. Robert Hawkins, the addition to the plant has been completed during the year. The two new Gaskill Engines of 12-million gallons capacity each were started up on September 6, and the Gaskill Engine in the town of Lake engine-house was removed and placed on the new foundation next to the other engines in the new house. This latter engine was started up Feb. 17, 1893. The extensive discharge pipe system connecting with the World's Columbian Exposition main and the City mains was laid during the year, the last connection with the old 36" main being made on September 5, 1892. The special castings for this work were made by Shickle, Harrison, Howard & Co., of St. Louis. Mr. Wm. Klewer was the architect, and Mr. John Ericson was the engineer in charge of construction.

## WASHINGTON HEIGHTS PUMPING STATION.

This station, in charge of Mr. George Inman, has been enlarged during the year—an improvement that has been long needed. The new building was erected entirely over and around the old one, thus not in any way interfering with the continued operation of the works. One new Fairbanks & Morse Pump of one million gallons capacity and one 60-horse power tubular boiler were added to the plant. The building has been so constructed as to be able to contain an additional pump and boiler in the future.

Mr. John Ericson was the engineer in charge of construction.

The appended table shows the complete details relating to all the pumping engines in the system in Chicago, their different styles, dimensions and capacity.

## FOUR-MILE TUNNEL.

The four-mile tunnel (contractor, Andrew Onderdonk) was completed during the year.

On the first day of January, 1892, we find the lake heading to be 3,772.3 feet from the center of the shaft at the four-mile crib; the shore heading 12,835.6 feet from the Park Row shaft; and the distance of 4,602.4 feet between both headings, of which 2,375.4 feet of 8-foot tunnel was constructed under compressed air from the four-mile crib landwards, and the balance of 2,227 feet, also under compressed air, from the Park Row shaft lakewards. On the 22d day of June, at 11:44 A. M., the connection between both headings was made, though the masonry was not completed until June 27, at 2 A. M. The levels met under an error of less than  $\frac{4}{10}$  of a foot, and the alignments under an error of next to nothing, which is a splendid showing for a line more than three miles long and full of curves, and is chiefly to be credited to the perseverance and skill of Mr. Francis F. Hopp. Water was not turned into the tunnel until the 7th day of December. In the intervening time the whole of the extensive system was put through a course of reconstructing defective portions, cleansing, smoothing-out and finishing, and the Park Row by-pass was stripped of its steel lining and bulkheaded up. Shortly before the water was turned in, every part of the tunnel was subjected to a rigid examination as to dimensions and smoothness of longitudinal and transverse profile of the flowage cylinder and as to the character of the masonry lining. The results of this examination, which was conducted by the engineer in charge, Mr. Francis F. Hopp, aided and advised by the former First Assistant City Engineer, Mr. Bernhard Feind, and which lasted about ten days, were embodied in a comprehensive report to the City Engineer, Mr. L. H. Clarke, and demonstrated, in brief, that about 70 per cent of the work was in excellent, and about 30 per cent in fair condition in both respects above mentioned. This is a remarkable showing, in view of the numerous and formidable difficulties encountered in the prosecution of the work, and commented upon in former reports. Great praise is due to the contractor, Mr. Andrew Onderdonk, for the admirable pluck, perseverance and good faith manifested during the prosecution of this important work, in never yielding to difficulties, never shunning expense, however lavish, in order to overcome them, and, at the same time, never tolerating any attempt on the part of his men to slight the workmanship in order to accelerate progress. Mr. Onderdonk had, during the latter part of the progress of the work, a most efficient superintendent of construction in the person of Mr. William Dennon, to whose quiet energy a great deal of the success is due. Mr. Dennon is an expert in tunnel work by the aid of compressed air.

The contract provided for completion as far as the two and one-half mile crib within forty-two months after date of signing the contract (November 17,



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1887), and at the rate of 1,800 lineal feet per heading per annum for the balance of one and one-half miles, extensions of time to be granted if quicksand were met with. As the location of the shore shaft, and with it the course of the tunnel, was changed from Peck court to Park Row, the time should be counted from commencement of work on Park Row shaft, or May 1, 1888. The two and one-half mile crib was never utilized in constructing any portion of the present tunnel, the latter being carried around the former by a wide detour. The tunnel was completed up to the two and one-half mile point about January 15, 1892, or within forty-four and one-half months after commencement (an excess of only two and one-half months over contract time) by the use of a single heading from shore instead of two headings, as originally contemplated, one from shore, one from the two and one-half mile crib. A large portion of the excavation lay in quicksand, or (what was just as treacherous and as difficult to deal with) in very soft, "swelling" clay. The heading was begun from the four-mile crib just one year previous to the passing of the two and one-half mile point by the shore heading, and had advanced 3,772 feet during the year—or about twice the contract rate. The two headings met on June 22, 1892. Thus, from January 15, 1892, to June 22, 1892, a period of five and one-fourth months, a distance of  $1.5 \times 5,280 - 3,772 = 4,148$  feet was covered by two headings, which is a rate of progress of  $\frac{4,148 \times 12}{2 \times 5.25} = 4,741$  feet per heading per annum, or about two and two-thirds times the contract rate.

The tunnel has an economical capacity of 140 million gallons per 24 hours, and is connected with the old Chicago avenue tunnel system by one tunnel under Jefferson street, 6' in diameter, and one tapering tunnel under Desplaines street of 3' 9" mean diameter, so that in an extreme case the water from the four-mile crib could be sent even to the North Side pumping station, although, of course, in such an event the whole of the old City would have to be put on very short allowance.

The designs for the full equipment of the four-mile crib were completed during last summer under personal direction of the then First Assistant City Engineer, Mr. Bernhard Feind, by Mr. William S. Chase, of this department. The contract for the steel girders and floor-beams was let to the Youngstown Bridge Co. Considerable delay in obtaining the material from the mills was experienced by this firm, but the girders are in place over the well of 70 feet diameter, and early in the coming season the work will be completed.

The contract for the brick arches and concrete floor over the well was let to Mr. D. H. Hayes, who has also contracted for the circular building, rooms and partitions.

The contract for the circular iron roof, winding stairs and lighthouse was let to Mr. Theodore Kandeler. This part of the construction is already complete in the shops, but cannot be erected until after the walls of the building are up, which will be done early in the summer of 1893.

The contract for the circular outer parapet wall of concrete, 6' high, was let to the Fitzsimons & Connell Co. This wall will not be constructed until the bulk of the interior construction and equipment is completed.

#### LAKE VIEW TUNNEL.

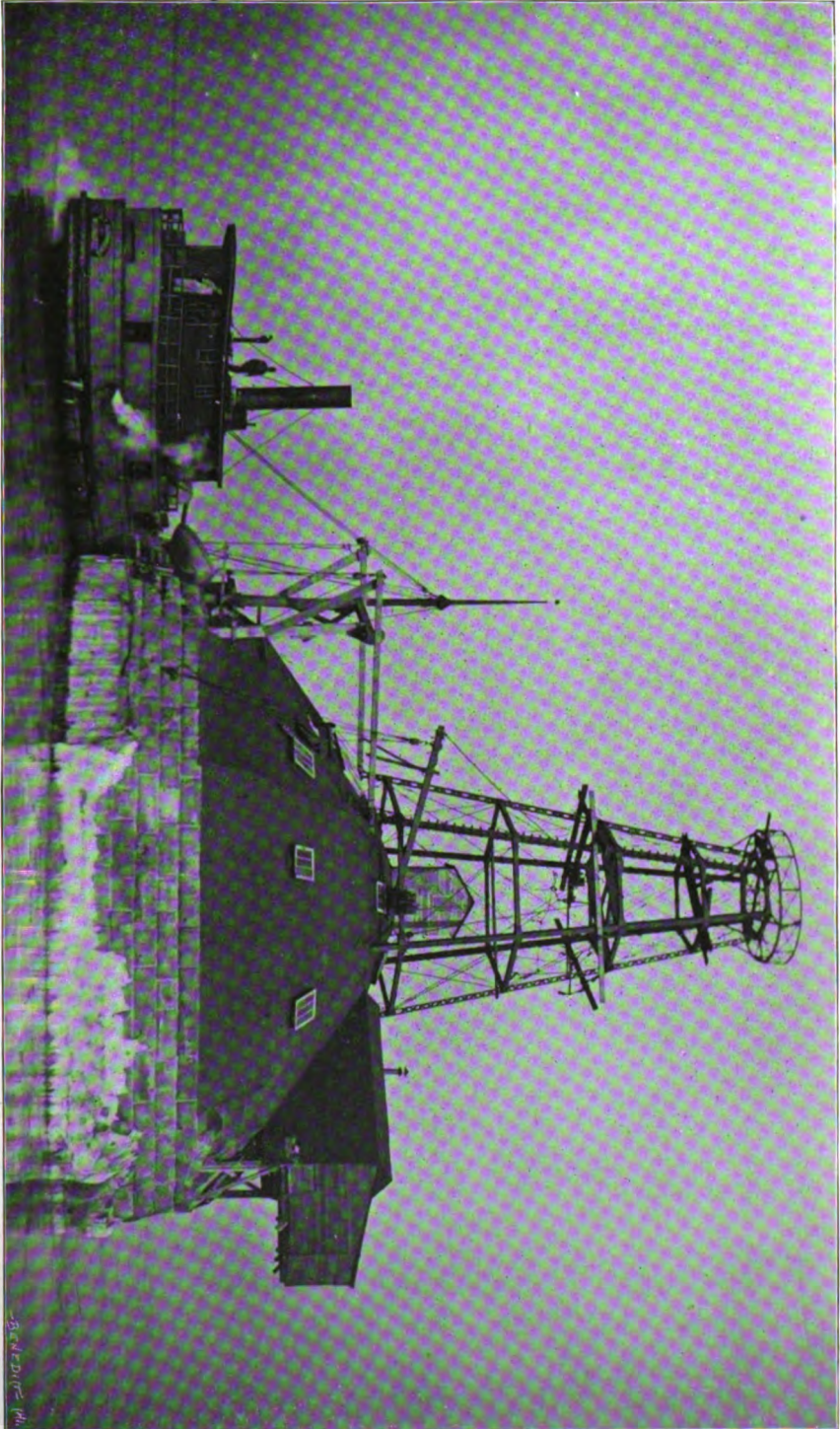
At the closing day of the year 1892 there were 7,492 lineal feet of the Lake View tunnel constructed, of which 292 feet is west of the shore shaft and 6,342 feet east of the shore shaft; 160 feet east of the lake shaft in the outer crib, and 698 feet west of the same point in the outer crib. The iron lighthouse has also been erected.

On the 22d of June an intermediate crib, 6,039 feet from the shore shaft, was placed in position. On August 6th the shaft in this crib having been connected with the tunnel underneath, the water was let in, since which time there has been an uninterrupted supply. The tunneling from the shore end has been through rock constantly, and from the lake end through very hard clay. On December 31, 1892, there only remained to complete the contract, 3,017 feet of tunnel. At the rate at which the work is now going on the connection should be made some time in August, 1893. The Lake View tunnel is under the supervision of Mr. H. C. Leach, Assistant Engineer.

#### SIXTY-EIGHTH STREET TUNNEL EXTENSION.

This much-needed improvement is a 7' extension of the present 6' tunnel to a point two miles from shore. In order to obtain a supply from the new intake in time for the opening of the World's Columbian Exposition, the City decided to build two cribs, so as to enable the work to be pushed from three headings. The contract was awarded to Lydon & Drews, of this City. The inner crib was placed in position August 11th, 6,500 feet from shore. The outer crib was placed in position Sept. 27, 1892. The progress on this work has been very far from what was expected. At the end of the year 1892 the shaft in the inner crib had been sunk to a depth of about 19 feet below lake bottom, and had filled with water from a water-bearing stratum presumably connected with the lake, and work was at a standstill. At the present writing, however (March 20, 1893), the shaft having been sunk to its proper depth, and the inflow from the water-bearing stratum having been shut off, the tunnel headings in both directions are progressing at a satisfactory rate. The superstructure of the outer crib was incomplete at the close of 1892. At the present writing, however (March 20, 1893), men are quartered on this crib, the upper or cast-iron portion of the shaft has been finished, and the lower or brick portion of the shaft has been entered upon under very favorable conditions of soil. The expectation now is that water will be had from the new intake before July 1, 1893.

It was necessary to make provision for a water supply during the making of the connection of the old with the new tunnel. An extension of the new land tunnel about 900 feet into the lake was therefore decided upon and the



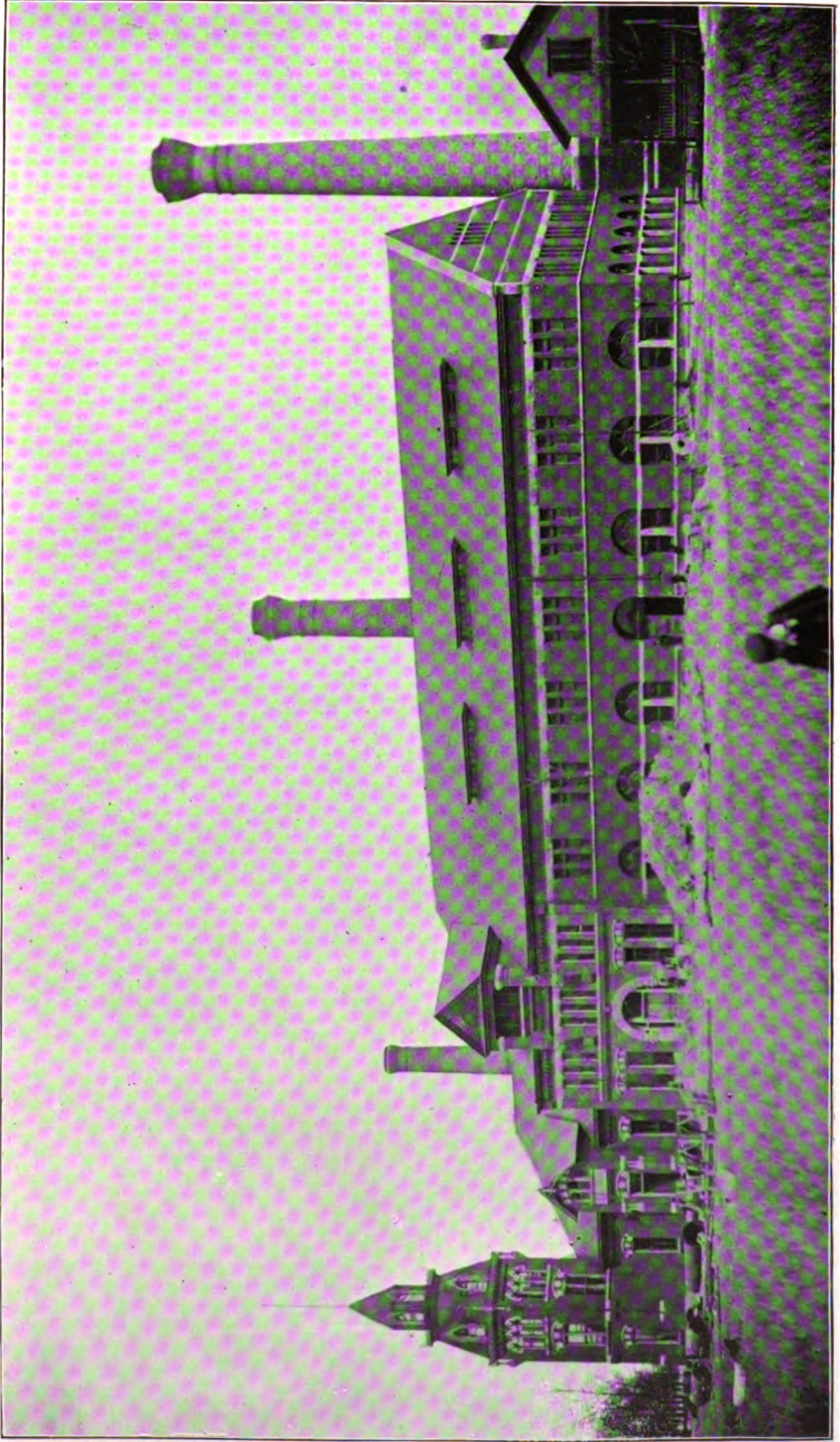
C. P. KEMBL, PHOTO.

OUTER CRIB ON LAKE VIEW TUNNEL.



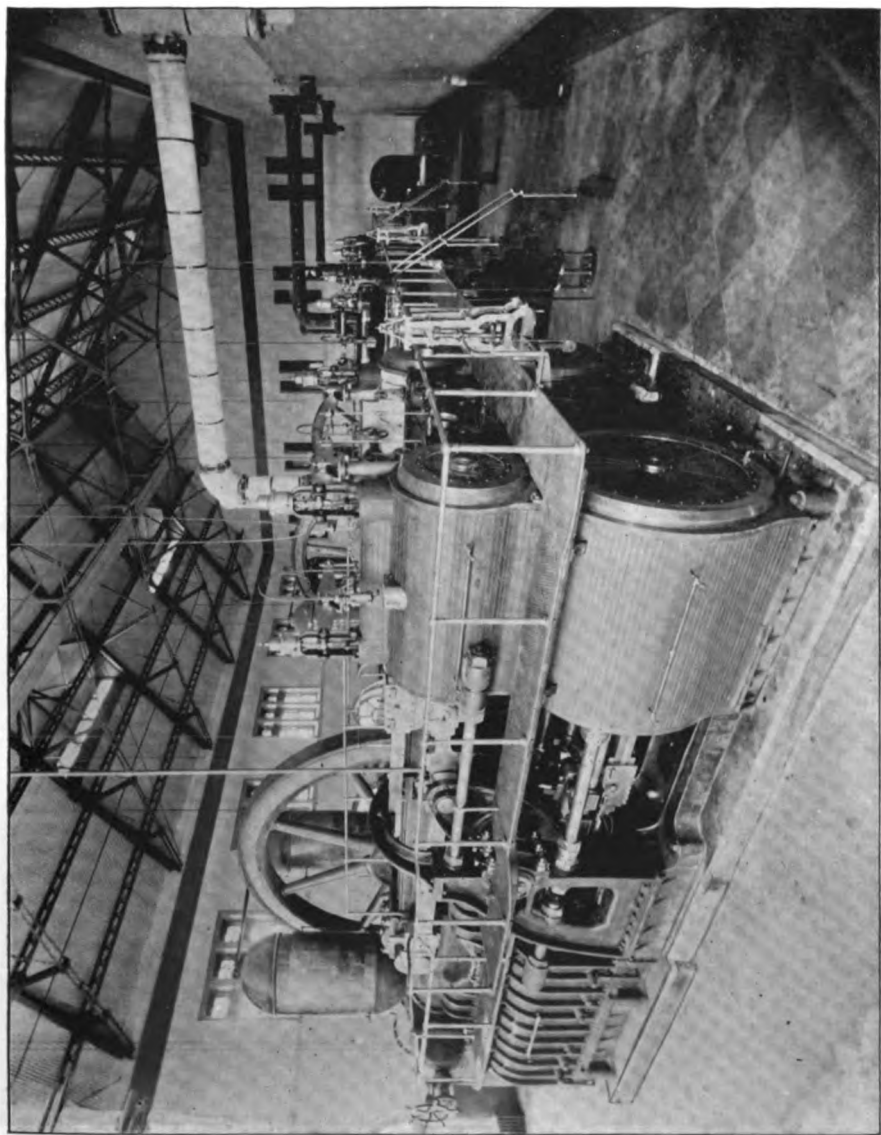






SIXTY-EIGHTH STREET PUMPING STATION.

C. P. KEMBLE, PHOTO.



INTERIOR OF SIXTY-EIGHTH STREET PUMPING STATION.



contract awarded to H. B. Herr & Co. This work includes a shore intake crib, consisting of piles and rip-rap filling and a shaft inside. The connection between shaft and tunnel was made December 14, 1892.

As the work on the new main tunnel has been delayed so much that connection with the old work will not be made until long after the opening of the World's Columbian Exposition, and as the new shore intake, moreover, in the meanwhile, will be made subject to far greater and far more constant danger of contamination of the supply from new shore water, such as landing piers and filling in, it becomes absolutely necessary to extend the shore intake for at least another 600 feet.

There were also built several additional shafts and cross-connection tunnels in the land tunnel system, for the purpose of a perfect control of flow from both the main and the shore intakes.

Mr. John Ericson, Assistant Engineer, has been in charge of this work.

WATER PIPE TUNNEL UNDER CHICAGO RIVER AT THIRTY-FIFTH STREET,  
10' 2" x 7' 2½".

The brick lining of this rock tunnel was completed, and the brick lining of the two shafts, much damaged by blasting, was repaired, and soon thereafter the 36" pipe was laid through shafts and tunnel.

INTAKES.

At the 'Two-Mile Crib' (which throughout the year 1892 was in charge of Captain Charles McKee, but is now in charge of Captain Wm. M. Dall, who was appointed January 3, 1893), a serious stoppage of the flow of water occurred during the winter of 1891-2, caused by the ports becoming choked with ice, as mentioned already in the preceding Annual Report. Many improvements, the necessity for which was emphasized anew by the experience of this winter, were made during the year, such as the removal of the old brick lighthouse tower and the substitution therefor of the iron tower that formerly stood upon the crib at the 1,500 foot Shore Inlet; also the cutting of another large port through the body of the crib; also a very considerable increase of and improvement in the boiler and pumping power for water and steam jets. The winter of 1892-3 brought with it excessive hardships for the crew, but no interruption of the flow.

At the "Four-Mile" and "Lake View Temporary" cribs, in charge of Captain Charles Johnson and Edward Slattery, respectively, no interruption of the flow has occurred since they were opened.

The intake crib at the end of the northerly Government Breakwater has been used very sparingly, the flow being regulated by the gate in the shore shaft in the yard of the North Side pumping station; it has been shut out altogether whenever there was a suspicion of a current from the river into the lake.

## WATER PIPE EXTENSION.

This division of the water supply system is in charge of Mr. John A. Moody, Superintendent.

Owing to the fact that the Council increased the amount of revenue to be required before water pipe is laid, from five to ten cents per foot frontage, the number of feet of pipe laid is less than that of either of the two years preceeding, it being about 60.3 miles. The demand for pipe was fully as great as in any year since annexation.

Our system needs larger feeding mains in several directions. Even with the increased pumping capacity, we have as many complaints as ever of lack of pressure. That portion of the North Division, east of N. Halsted street and south of Fullerton avenue, needs relief at once. It can be given by extending the 24" main in Larrabee street northward from Division street.

The district west of Kedzie avenue, between Twelfth street and W. Chicago avenue, should be relieved by extending the 24" main on W. Harrison street from Kedzie avenue westward.

The district in the vicinity of Humboldt Park is in pressing need of more water. Recommendations to remedy this have been submitted by me to you some time ago.

The district south of Ninety-fifth street is badly served, and is urgent in its demands for relief.

Our plans at present contemplate the extension of pipe on Sulzer avenue from Lake View pumping station to Mayfair in Jefferson district. This will give relief to Jefferson, and may indirectly help the Humboldt Park district a little. Nothing has been done toward relieving the other districts mentioned.

Our pumping works are nearly all at the eastern limit of the City, necessitating large loss of head before the water is distributed, yet out of a total of more than 1,402 miles of water pipe only 57 miles is 24 or more inches in diameter.

During the year about 25,000 feet of three, four and six-inch pipe has been taken up and replaced by larger pipe.

Over 18 miles of water pipe, costing \$110,388.91, has been laid at the expense of private parties. Of this amount, \$32,547.75 was advanced by contractors for street improvements, who have been required to advance the money to cover cost of laying pipe where necessary, before going on with the street improvement. The City agrees to refund all money advanced for water pipe when the annual revenue from it equals ten cents per foot frontage.

Five hundred and ninety-one composition and 620 brick hydrant and stop-valve basins were built by City men, and 1,143 brick basins were built by contract. The repairs to hydrant and valve basins, amounting to nearly as much as the new work, was done by City men.

The total number of valves placed is 649, and total number in use 10,384.

The figures above given as to the total number of hydrants and valves are ascertained from past reports. An inventory should be made in order to secure accurate information.

One fire cistern was built during the year in Congress street, at east line of State street.

Water mains have been taken out in the following named streets, and replaced by others of larger size:

Carroll avenue, from Ashland avenue to Leavitt street.  
Congress street, from State street eastward, 202 feet.  
Congress street, from Wabash avenue eastward, 128 feet.  
Fulton street, from Homan avenue to St. Louis avenue.  
Forty-fifth street, from Cottage Grove avenue to Champlain avenue.  
George street, from Sheffield avenue to Seminary avenue.  
Groveland avenue, from Thirty-third to Thirty-fifth street.  
Illinois street, from St. Clair street to eastward 504 feet.  
Indiana avenue, from Forty-third to Forty-ninth street.  
Michigan street, from Pine to St. Clair street.  
Monroe street, from Canal to Halsted street.  
Prairie avenue, from Thirty-ninth to Forty-first street.  
Strand street, from Eighty-sixth to Eighty-eighth street.  
Thirty-ninth street, from Lake to Cottage Grove avenue.  
Wabash avenue, from Twenty-second to Thirty-fifth street.

The following named streets were graded down by the Street Department, which rendered it necessary to lower the water mains below the frost line:

Arlington place, from Clark street to Lake View avenue.  
Center avenue, from Fifty-fourth street to 300 feet south of Fifty-sixth street.  
Drexel boulevard, from Fifty-second to Fifty-fifth street.  
Emerald avenue, from 60 feet north of Union Stock Yards railroad southward, 235 feet.  
Graceland avenue, from Clark street to Ashland avenue.  
Grand avenue, from Clark street westward.  
Michigan avenue, from Fifty-sixth to Sixty-third street.  
Roscoe street, from Clark street eastward.  
Thirty-sixth street, from Ellis avenue to Lake avenue.  
Washtenaw avenue, from 100 feet north of Fulton street to railroad.



The following tabulated statements show in detail the work done on water pipe extension :

NORTH DIVISION.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Astor.....	Crossing.....	North avenue .....	44	6
Illinois.....	St. Clair.....	Eastward .....	504	8
Michigan.....	Pine.....	St. Clair.....	368	8
North avenue .....	State.....	Lake Shore drive.....	624	8
Osgood.....	Maud.....	Clybourn avenue.....	200	6
Total.....			1,740	
Add branch pipe for hydrants.....			24	4
Add branch pipe for hydrants.....			60	6
Total feet laid in North Division.....			1,824	





INNER CRIB ON LAKE VIEW TUNNEL.

C. P. KEMBLE, PHOTO.

## SOUTH DIVISION.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Arch.....	Lyman.....	Thirty-first.....	380	4
Armour avenue.....	Twenty-second.....	Twenty-third.....	634	6
Armour avenue.....	Twenty-third.....	Twenty-fourth.....	605	6
Armour avenue.....	Twenty-fourth.....	Twenty-fifth.....	603	6
Ashland avenue.....	Archer avenue.....	Northward to Canal Pump Works.....	1,180	8
Ashland avenue.....	Thirty-fifth.....	10 ft. N. of N. line Tunnel Shaft.....	3,382	24
Attica.....	Auburn.....	Laurel.....	625	6
Butler.....	Thirty-eighth.....	Thirty-ninth.....	670	6
California avenue.....	Crossing.....	Thirty-fifth.....	70	6
Calumet avenue.....	300 ft. N. of Thirty-seventh.....	Northward.....	65	6
Canal Pumping Works.....	Ashland avenue.....	Westward.....	215	8
Champlain.....	Thirty-third.....	Northward.....	475	6
Champlain.....	36 ft. S. of Thirty-sixth.....	Southward.....	853	6
Congress.....	State.....	Eastward.....	202	8
Congress.....	Wabash avenue.....	Eastward.....	128	8
Daly.....	Crossing.....	Thirty-fifth.....	65	6
Groveland avenue.....	Thirty-third.....	Thirty-first.....	1,443	6
Joseph.....	Crossing.....	Spaulding avenue.....	41	6
Joseph.....	Spaulding avenue.....	Westward.....	825	6
Lowe avenue.....	72 ft. N. of Thirty-fifth.....	Northward.....	252	8
Lowe avenue.....	Thirty-ninth.....	Northward.....	386	6
McAlpine place.....	Crossing.....	Thirty-fifth.....	70	6
Mosprat.....	310 ft. S. of Thirty-third.....	Southward.....	390	6
Oakley avenue.....	Connection.....	Thirty-fifth.....	17	6
Park place.....	Michigan avenue.....	Eastward.....	296	6
Parnell avenue.....	Thirty-fifth.....	Northward.....	220	6
Rockwell.....	Crossing.....	Thirty-fifth.....	65	8
Shields avenue.....	Crossing.....	Thirty-eighth.....	46	6
Smith.....	California avenue.....	Westward.....	240	6
Spaulding avenue.....	Crossing.....	Thirty-eighth.....	40	6
Twenty-third.....	Sawyer avenue.....	Eastward.....	204	6
Twenty-sixth.....	Connection.....	N. W. cor. Wabash avenue.....	80	8
Thirty second.....	Portland avenue.....	Butler.....	1,141	6
Thirty-second court.....	Cottage Grove avenue.....	Lake avenue.....	545	6
Thirty-second.....	Union.....	Emerald avenue.....	266	6
Thirty-third.....	Archer avenue.....	Westward.....	600	8
Thirty-fifth.....	Charlton.....	Ashland avenue.....	286	36
Thirty-fifth.....	Leavitt.....	Hoyne avenue.....	616	6
Thirty-fifth.....	California avenue.....	Yorktown.....	8,653	6
Thirty-fifth street Tunnel.....	212 ft. W. of Ullman.....	300 ft. E. of Iron.....	303	36
Thirty-eighth court.....	Crossing.....	Butler.....	45	6
Thirty-eighth.....	Kedzie avenue.....	Westward.....	408	8
Thirty-eighth.....	Spaulding avenue.....	Westward.....	300	8
Thirty-eighth.....	300 ft. W. of Spaulding avenue.....	Westward.....	200	8
Thirty-eighth.....	Stewart avenue.....	Eastward.....	250	6
Thirty-ninth.....	Lake avenue.....	Cottage Grove avenue.....	891	12
Vermont.....	Thirty-seventh.....	Southward.....	365	6
Wabash avenue.....	Twenty-second.....	Thirty-fifth.....	7,977	8
Wall.....	310 ft. S. of Thirty-third.....	Southward.....	346	6
Ward.....	Crossing.....	Thirty fifth.....	70	6
Washtenaw avenue.....	Crossing.....	Thirty-fifth.....	60	6
Whipple.....	366 ft. N. of Twenty-fifth.....	Northward.....	230	6

## SOUTH DIVISION—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet	Diameter in inches.
Williams. ....	California avenue .....	Eastward .....	255	6
Yorktown .....	Crossing.....	Thirty-fifth .....	48	6
Total .....			82,522	
Add branch pipe for hydrants.....			276	4
Add branch pipe for hydrants.....			156	6
Total feet laid in South Division.....			82,954	

## WEST DIVISION.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches
Alley, 1st W. of Morgan	Van Buren	Garden	204	4
Adams	Forty-third	Westward	202	6
Albany avenue	Crossing	Grand avenue	50	6
Albany avenue	Thirteenth	Southward	390	6
Albany avenue	Twenty-third	Southward	600	6
Ambrose	Crossing	Oakley avenue	26	6
Augusta	Fairfield avenue	Westward	146	8
Augusta	Rockwell	Washtenaw	782	8
Augusta	120 ft. W. of Washtenaw avenue	Westward	24	8
Augusta	32 ft. W. of Washtenaw avenue	Westward	86	8
Avers avenue	Huron	Southward	500	6
Avers avenue	38 ft. N. of North avenue	Southward	75	6
Avers avenue	Crossing	Ohio	57	6
Avers avenue	Ohio	Northward	150	6
Bonney avenue	Ogden avenue	Northward	266	6
Boston avenue	Crossing	Halsted	54	6
Campbell avenue	Austin avenue	North	450	6
Campbell avenue	Ogden avenue	Lunn court	464	6
Carroll avenue	Ashland avenue	Leavitt	3,981	8
Central Park avenue	Crossing	Grand avenue	104	8
Central Park avenue	Ohio	Central Park blvd	632	6
Central Park avenue	Crossing	Twenty-sixth	62	6
Central Park avenue	Pierce	Northward	121	6
Central Park avenue	Pierce	Southward	986	6
Chicago avenue	147 ft. W. of California avenue	Westward	783	6
Chicago avenue	54 ft. West of California avenue	Westward	1,690	10
Chicago avenue	Forty-sixth (West)	18 ft. W. of Fort-seventh (West)	652	8
Clifton	Fort-second (West)	Westward	633	6
Clifton	Forty-second (West)	Eastward	673	6
Crawford avenue	Crossing	North avenue	75	12
Division	Crossing	Monticello avenue	55	12
Eberhardt	Homan avenue	Kedzie avenue	1,325	6
Elk Grove	340 ft. N. of Harvey	Northward	127	6
Fairfield avenue	Crossing	Augusta	49	6
Fortieth	Fifteenth	Sixteenth	666	8
Fortieth	Twelfth	Fifteenth	1,985	8
Fortieth place	Crossing	Twelfth	44	6
Fortieth place	Twelfth	Sixteenth	2,598	6
Forty-first	Twelfth	Sixteenth	2,598	6
Forty-first	Crossing	Twelfth	70	6
Forty-first	Twenty-fifth	Pearl	831	6
Forty-first place	Crossing	Twelfth	44	6
Forty-first place	Twelfth	Sixteenth	2,590	6
Forty-second	Crossing	North avenue	75	8
Forty-second	Ogden	Pearl	1,538	6
Forty-second	Crossing	Twelfth	70	6
Forty-third	Crossing	Madison	42	6
Forty-third	Crossing	North avenue	75	6
Forty-fourth	Crossing (North)	Madison	42	8
Forty-fourth	Crossing (South)	Madison	82	8
Francisco	Crossing	North avenue	17	8
Francisco	Crossing	Fillmore	29	6
Francisco	Lexington	Polk	300	6
Francisco	Thomas	Southward	169	8
Fulton	Homan avenue	St. Louis avenue	631	8

## WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Fulton .....	100 ft. W. of St. Louis avenue.	Central Park Avenue.	520	8
Garden .....	1st. Alley E. of Aberdeen	1st Alley West of Morgan.	342	4
Gerard .....	Crossing .....	Webster avenue .....	40	6
Grant .....	Crossing .....	North avenue .....	75	6
Grand avenue.	North avenue.	Hinckley avenue .....	206	12
Grenshaw .....	243 ft. W. of Homan avenue	St. Louis avenue .....	357	6
Harrison .....	Central Park avenue	Eastward .....	250	8
Harding .....	Crossing .....	North avenue.	75	6
Hamlin avenue.	Crossing .....	North avenue .....	75	8
Harvard .....	Sacramento avenue.	Eastward .....	258	8
Hinkley avenue.	Crossing .....	Grand avenue.	36	6
Homan avenue	25 ft. S. of N. line of Twenty-third.	215 ft. N. of N. line of Twenty-third	240	8
Homan avenue	215 ft. N. of Twenty-third.	Northward .....	132	8
Homan avenue	Twenty-third.	Southward .....	360	8
Hoynes avenue.	15 ft. S. of Pulaski.	Southward .....	184	6
Hoynes avenue.	25 ft. S. of N. line of Pulaski.	Southward .....	60	6
Humboldt Park blvd	Crossing .....	Grand avenue .....	55	6
Huron .....	Forty-eighth .....	Forty-ninth .....	625	6
Huron .....	Trumbull avenue	Homan avenue .....	341	6
Kedzie avenue.	220 ft. N. of Twenty-fourth	Northward .....	650	12
Lawndale avenue	Twelfth .....	87 ft. S. of Fourteenth .....	1,564	6
Lincoln .....	Hervey .....	Northward .....	30	8
Lincoln .....	Hastings .....	Fourteenth .....	290	6
Lincoln .....	N. line of first street N. of N.-W. Ry.	Southward .....	36	4
Lincoln .....	Twelfth .....	Thirteenth .....	560	6
Leavitt .....	Crossing .....	Thirteenth .....	45	8
Lester avenue.	Crossing .....	Webster avenue .....	40	6
Le Moine .....	Crossing .....	Fairfield avenue.	74	6
Lumber .....	Sixteenth .....	Southward .....	810	4
McAuley .....	Crossing .....	North avenue.	75	6
Monroe .....	Canal .....	Clinton .....	428	8
Monroe .....	Jefferson .....	Desplaines .....	400	8
Monroe .....	Clinton .....	Jefferson .....	400	8
Monroe .....	Desplaines .....	Halsted .....	842	8
Monroe .....	Forty-third .....	Eastward .....	104	6
Moore .....	Western avenue.	Eastward .....	256	6
Ogden avenue.	Hamlin avenue.	Bonney avenue .....	345	6
Ogden avenue	Fortieth .....	Forty-second .....	1,600	8
Ohio .....	Springfield avenue.	Avers avenue .....	377	12
Ogden avenue (N. side)	148 ft. W. of Western avenue.	Campbell avenue .....	444	6
Ogden avenue (N. Side)	25 ft. E. of West Butment.	Rockwell .....	330	6
Ogden avenue (S. Side)	25 ft. E. of West Butment.	Rockwell .....	546	6
Ogden avenue	87 ft. W. of Western avenue	18 ft. W. of East Butment.	546	6
Ogden avenue	Crossing, North and South.	25 ft. E. of West Butment.	146	6
Ogden avenue (S. Side)	87 ft. W. of Western avenue	Cr. to N. side 148 ft. W. of Western ave.	144	6
Park avenue	890 ft. E. of Fortieth .....	Eastward .....	384	6
Pearl .....	Forty second.	Forty-third .....	400	6
Pearl .....	Forty-first .....	Eastward .....	250	6
Phinney avenue.	Jackson boulevard .....	Scott .....	402	6
Polk .....	Sacramento .....	Eastward .....	300	6
Polk .....	22 ft. E. of Rockwell	Washtenaw avenue .....	722	6
Pulaski .....	12 ft. E. of Leavitt .....	St. Hedwig .....	274	6
Pulaski .....	Hoynes avenue .....	St. Hedwig .....	327	6
Rebecca .....	320 ft. W. of Rockwell	Westward .....	127	6
Richmond .....	Crossing .....	Chicago avenue .....	17	6

## WEST DIVISION—CONTINUED.

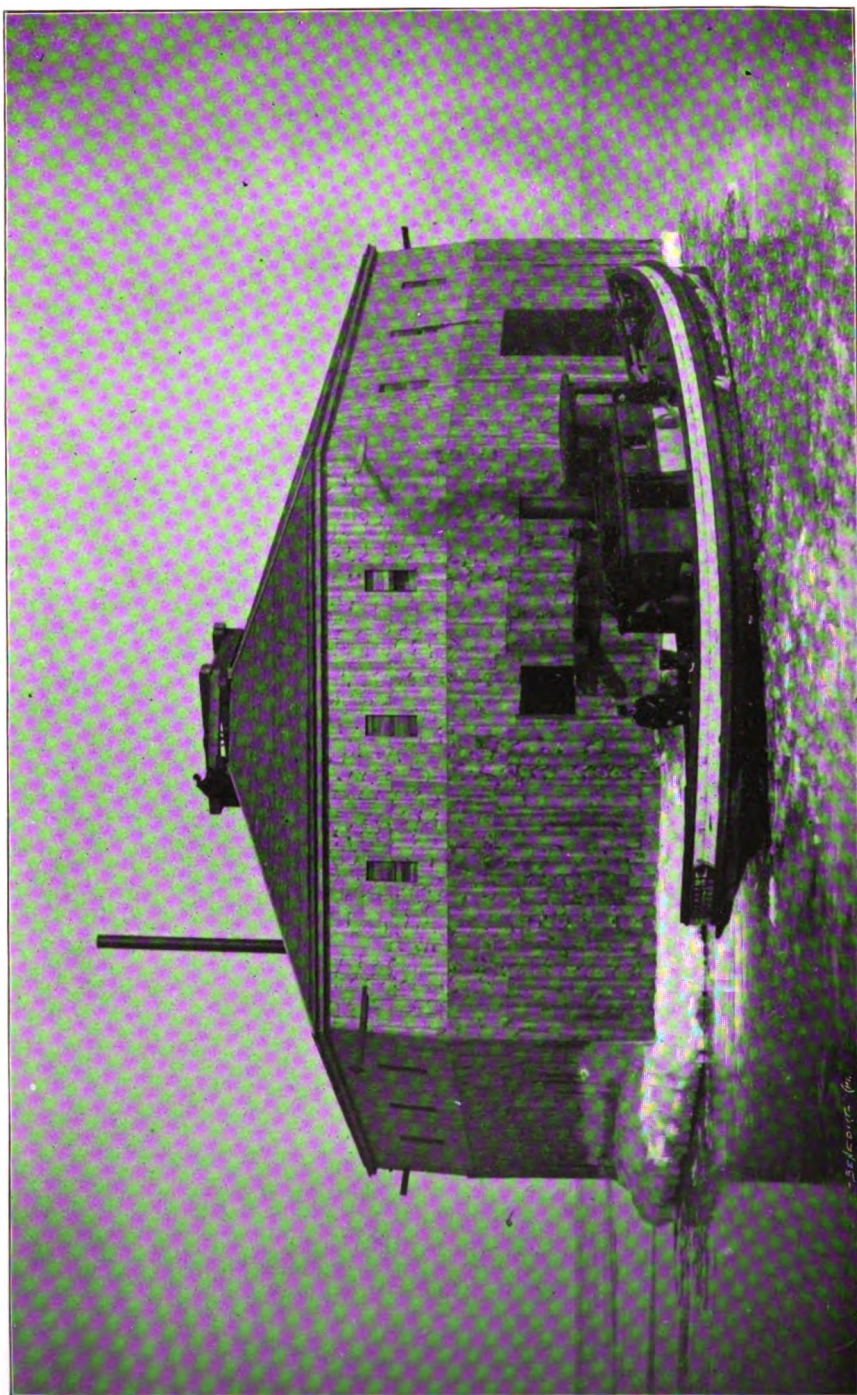
STREET.	FROM	TO	Length of Pipe in feet	Diameter in inches.
Rockwell (E. side).	Ogden avenue.	Northward	120	6
Rockwell (E. side).	3 ft. N. of the S. line of Ogden avenue	Southward	64	6
Rockwell.	Crossing	61 ft. S. of Ogden avenue.	25	6
Rockwell.	Crossing	117 ft. N. of Ogden avenue	27	6
Rockwell (W. side).	S. line of Ogden avenue.	Southward	24	6
Sacramento avenue.	Twenty-second	Moore	680	6
School court.	Monroe.	Northward	158	4
School court.	Pipe running E. on School court.	Northward	50	4
School court.	School street.	Eastward	56	4
Scott.	Phinney avenue.	Eastward	139	6
Seventeenth.	Western avenue.	Westward.	515	6
Sixteenth.	Albany avenue.	Westward.	216	6
Sixteenth.	Homan avenue.	Turner avenue.	385	8
Sixteenth.	200 ft. W. of Albany avenue	Westward.	36	6
Sixteenth.	Kedzie avenue.	Eastward.	160	8
Sobieski.	12 ft. S. of Fullerton avenue.	Southward	876	6
Spaulding avenue.	Joseph.	Thirty-eighth.	294	6
Spaulding avenue.	Twenty-third.	Southward	1,032	8
Springfield avenue.	300 ft. N. of Indiana.	96 ft. N. of Ohio	402	8
Springfield avenue.	Crossing	North avenue.	75	8
Stanley Terrace.	Jackson.	Van Buren.	541	6
St. Hedwig.	Crossing	Pulaski	40	6
Street, 1st N. of N. W. Ry.	Crossing	Lincoln.	100	6
Superior.	California avenue.	Eastward	300	6
Talman avenue.	Hirsch.	Thompson	684	6
Thirteenth.	Crossing (East).	Lawndale avenue.	43	6
Thirteenth.	Crossing (West).	Lawndale avenue.	27	6
Thompson.	Crossing	Tolman avenue.	92	6
Tripp.	Crossing	North avenue.	75	6
Troy.	Twenty-seventh.	Southward	480	6
Trumbull avenue.	Crossing	Huron.	41	6
Turner avenue.	Ogden avenue.	Douglas Park boulevard.	2,025	6
Twelfth.	Fortieth	Forty-second.	1,326	12
Twenty-third.	Crossing	Homan avenue.	41	6
Twenty-third.	Crossing	Kedzie avenue.	80	6
Twenty-third.	St. Louis avenue.	Trumbull avenue	313	6
Twenty-fourth.	Crossing	Kedzie avenue	80	6
Twenty-fifth.	Crossing	Kedzie avenue.	80	6
Twenty-fifth.	Kellogg.	206 ft. E. of Forty-first.	1,468	6
Twenty-sixth.	Central Park avenue.	Westward.	330	6
Twenty-sixth.	Millard avenue	Westward.	255	6
Washburn avenue.	Crossing	Lincoln.	73	6
Washtenaw avenue.	Crossing	Polk.	72	8
Washtenaw avenue.	Van Horn	Nineteenth.	350	8
Washtenaw avenue.	Crossing	Augusta.	30	8
Wilcox avenue.	Forty-third.	Westward.	240	6
Wilmot avenue.	Crossing	Churchill.	50	6
Wood.	Blue Island avenue.	Southward	662	6
Total.			63,128	
Add branch pipe for hydrants.			336	4
Add branch pipe for hydrants.			1,620	6
Total feet laid in West Division.			65,084	



## HYDE PARK DISTRICT.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Baltimore avenue.	Crossing.	Eighty-third.	64	6
Baltimore avenue.	Eighty-third.	Commercial avenue.	1,450	6
Boulevard place.	Vincennes avenue.	St. Lawrence avenue.	593	6
Champlain avenue.	Fiftieth.	Northward.	267	6
Calumet avenue.	Crossing.	Fifty-ninth.	24	6
Calumet avenue.	Forty-first.	Northward.	1,088	6
Calumet avenue.	Forty-fifth.	Fiftieth.	3,129	6
Calumet avenue.	Thirty-ninth.	Southward.	254	6
Champlain avenue.	Sixty-fifth.	Southward.	216	6
Drexel avenue.	Sixtieth.	Sixty-third.	1,865	6
Drexel boulevard.	Forty-seventh.	Northward.	667	6
Eighty-fourth.	Crossing.	Baltimore avenue.	60	6
Eighty-eighth place.	Cottage Grove avenue.	Eastward.	478	6
Ellis avenue.	Crossing.	Oakwoods avenue.	68	4
Erie avenue.	283 ft. South of Ninety-sixth	100 ft. N. of Ninety-sixth.	383	6
Evans avenue.	100 ft. North of Sixty-fifth.	Northward.	296	6
Evans avenue.	Sixty-seventh.	Sixty-ninth.	1,290	6
Exchange avenue.	Crossing.	Baltimore avenue.	60	6
Fiftieth.	Crossing.	Calumet avenue.	72	6
Fiftieth.	Champlain avenue.	Langley avenue.	336	6
Fiftieth.	Crossing.	Indiana avenue.	96	6
Fiftieth.	Langley avenue.	Eastward.	468	6
Fiftieth court.	Cottage Grove avenue.	Westward.	315	6
Fiftieth court.	St. Lawrence avenue.	Eastward.	130	6
Fifty-second.	Crossing.	Drexel avenue.	76	6
Fifty-second.	Lake avenue.	Jefferson avenue.	320	6
Fifty-third.	Crossing.	Drexel avenue.	24	6
Fifty-fourth.	Crossing.	Drexel avenue.	24	6
Fifty-fourth place.	Crossing.	Drexel avenue.	24	6
Fifty-sixth.	Lexington avenue.	Westward.	204	6
Fifty-sixth.	Crossing (West).	Lexington avenue.	48	6
Fifty-sixth.	Crossing (East).	Lexington avenue.	30	6
Fifty-sixth.	Crossing.	South Park avenue.	21	6
Fifty-sixth.	State.	Eastward.	220	6
Fifty-seventh.	South Park avenue.	Westward.	24	6
Fifty-eighth.	Ingleside avenue.	Crossing.	72	6
Fifty-eighth.	Crossing.	Lexington avenue.	78	6
Fifty-eighth.	Crossing.	South Park avenue.	24	6
Fifty-ninth.	Crossing.	South Park avenue.	15	6
Forty-second.	Wabash avenue.	Michigan avenue.	340	6
Forty-fourth.	Alley West of Grand blvd.	Eastward.	339	6
Forty-fourth.	Crossing.	Calumet avenue.	60	6
Forty-fourth.	West line of Drexel blvd.	Westward.	250	6
Forty-fourth.	Indiana avenue.	Westward.	164	6
Forty-fourth.	Michigan avenue.	Wabash avenue.	328	6
Forty-fifth.	Cottage Grove avenue.	Champlain avenue.	1,000	6
Forty-fifth.	Ellis avenue.	Woodlawn avenue.	1,327	6
Forty-sixth.	Drexel boulevard.	Eastward.	244	6
Forty-seventh.	Drexel Boulevard.	Prairie avenue.	4,091	12
Forty-eighth.	Cottage Grove avenue.	Eastward.	311	6
Forty-eighth.	Evans avenue.	Langley avenue.	327	6
Forty-eighth.	Crossing.	Indiana avenue.	96	6
Forty-eighth.	Langley avenue.	Westward.	160	6
Forty-ninth.	Crossing.	Indiana avenue.	96	6
Forty-ninth.	Vincennes avenue.	Westward.	276	6





OUTER CRIB ON HYDE PARK TUNNEL.

C. P. KEMBLE, PHOTO.

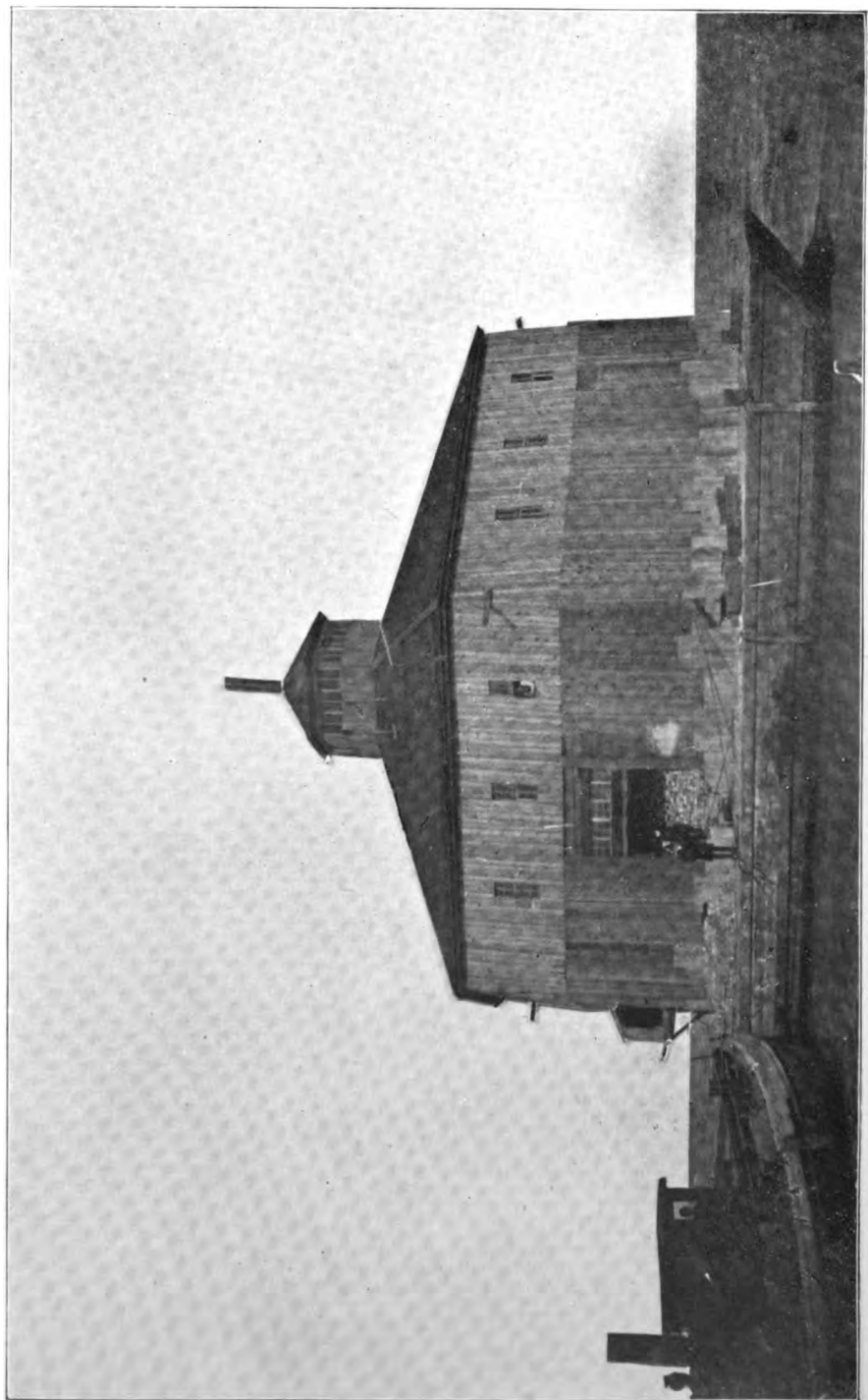
## HYDE PARK DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Grace avenue . . . . .	Sixty-fourth . . . . .	Southward . . . . .	400	6
Grand boulevard . . . . .	Forty-fourth . . . . .	Southward . . . . .	334	6
Grand Boulevard . . . . .	300 ft. South of Forty-fourth	Southward . . . . .	96	6
Greenwood avenue . . . . .	Fifty-fifth . . . . .	Southward . . . . .	604	6
Greenwood avenue . . . . .	Crossing . . . . .	Fifty seventh . . . . .	24	6
Harbor avenue . . . . .	South Chicago avenue . . . . .	Northward . . . . .	260	8
Houston avenue . . . . .	Ninety-second . . . . .	Ninety-third . . . . .	678	6
Indian avenue . . . . .	Forty-third . . . . .	Forty-ninth . . . . .	3,980	6
Ingleside avenue . . . . .	Fifty-ninth . . . . .	Northward . . . . .	925	6
Kenwood place . . . . .	Vincennes avenue . . . . .	Grand boulevard . . . . .	662	6
Lake avenue . . . . .	Oakland . . . . .	Southward . . . . .	83	6
Lexington avenue . . . . .	Fifty-sixth . . . . .	Fifty-ninth . . . . .	1,879	6
Lexington avenue . . . . .	Crossing . . . . .	Fifty-seventh . . . . .	72	6
Lexington avenue . . . . .	Ninety-third . . . . .	Southward . . . . .	434	6
Maryland avenue . . . . .	Sixty third . . . . .	Southward . . . . .	595	6
Muskegon avenue . . . . .	Crossing Eighty-third . . . . .	Baltimore avenue . . . . .	60	6
Ninety-fourth . . . . .	Crossing . . . . .	Ontario avenue . . . . .	65	6
Ontario avenue . . . . .	230 ft. North of Eighty-third	Eighty-second . . . . .	370	6
Ontario avenue . . . . .	150 ft. North of Harbor ave	Southward . . . . .	174	8
Prairie avenue . . . . .	Crossing . . . . .	Fifty-ninth . . . . .	24	6
Prairie avenue . . . . .	Thirty-ninth . . . . .	Forty first . . . . .	1,264	6
Seventh avenue . . . . .	Ninety-seventh . . . . .	Ninety-eighth . . . . .	617	6
Seventieth . . . . .	Madison avenue . . . . .	Stony Island avenue . . . . .	1,300	6
Seventy-sixth . . . . .	Ford avenue . . . . .	Westward . . . . .	357	6
Seventy-seventh . . . . .	Duncan avenue . . . . .	Ford avenue . . . . .	800	8
Schell avenue . . . . .	Seventy-fifth . . . . .	Seventy-seventh . . . . .	1,370	6
Sixty first . . . . .	Crossing . . . . .	Drexel avenue . . . . .	96	6
Sixty-second . . . . .	Madison avenue . . . . .	Westward . . . . .	280	6
Sixty-second . . . . .	Stony Island avenue . . . . .	Westward . . . . .	780	6
Sixty-fourth . . . . .	Star avenue . . . . .	Grace avenue . . . . .	410	6
Sixty-sixth . . . . .	Cottage Grove avenue . . . . .	Eastward . . . . .	160	6
South Park avenue . . . . .	Fifty-fifth . . . . .	Sixtieth . . . . .	3,140	6
State . . . . .	Sixty-seventh . . . . .	Sixty-eighth . . . . .	650	8
Stony Island ave . . . . .	Fifty-sixth . . . . .	Southward . . . . .	550	4
State . . . . .	One Hundred thirteenth . . . . .	One hundred fourteenth . . . . .	397	8
Vernon avenue . . . . .	Forty-third . . . . .	Southward . . . . .	290	6
Woodlawn avenue . . . . .	Seventy-sixth . . . . .	Eighty-first . . . . .	3,400	6
Total . . . . .			51,857	
Add branch pipe for hydrants . . . . .			564	4
Add branch pipe for hydrants . . . . .			684	6
Total feet laid in Hyde Park district . . . . .			53,105	

## LAKE VIEW DISTRICT.

STREET.	FROM	TO	Length of Pipe in feet	Diameter in inches.
Aberdeen.....	Clark.....	Eastward.....	1,654	6
Addison avenue....	Crossing.....	Lincoln avenue....	37	8
Arlington place....	Clark.....	Lake View avenue....	627	6
Ashland avenue....	Webster avenue....	77 ft. N. of North avenue..	807	6
Belleplaine avenue..	Crossing.....	Lincoln avenue....	26	6
Berteau avenue....	Crossing.....	Lincoln avenue....	75	8
Berwyn avenue....	Crossing.....	Southport avenue....	46	6
Bradley place....	Crossing.....	Rokeby street.....	27	6
Buckingham place..	Halsted.....	Eastward.....	443	4
Burling.....	Wrightwood avenue..	Southward.....	419	4
Center.....	Crossing.....	Graceland avenue....	52	6
Charlton avenue....	Crossing.....	Grand avenue....	29	6
Claremont.....	Isabella.....	Southward.....	248	6
Commercial.....	Waveland avenue....	Addison avenue....	666	6
Cornelia.....	Rokeby.....	Wilton avenue....	342	6
Cosgrove avenue....	Crossing.....	Lincoln avenue....	71	6
Edgewater place....	Clark.....	Southport avenue....	1,353	6
Ernst avenue....	Clark.....	Southport avenue....	1,344	6
Euclid avenue....	Crossing.....	Grand avenue....	29	6
Evanston avenue....	Thorndale avenue....	Southward.....	611	6
Farragut avenue....	Crossing.....	Southport avenue....	46	6
Fischer avenue....	Crossing.....	Grand avenue....	84	6
Forest avenue....	Peterson avenue....	Kemper place.....	733	6
Fulton.....	Ridge avenue....	Pleasant.....	479	6
George.....	May.....	Sheffield avenue....	650	6
George.....	Robey.....	Seeley avenue....	386	4
George.....	Sheffield avenue....	Seminary avenue....	648	6
Grace.....	Crossing.....	Lincoln avenue....	70	8
Grace.....	Crossing.....	Southport avenue....	26	6
Graceland avenue....	Leavitt.....	Irving avenue....	311	8
Grand avenue....	Clark.....	Evanston avenue....	2,634	8
Henderson avenue..	Marianna.....	Diversey.....	647	6
Irving avenue....	Belleplaine avenue....	Graceland avenue....	623	6
Isabella.....	Lincoln avenue....	Westward.....	450	6
Kenmore avenue....	Grand avenue....	Northward.....	685	6
Lakewood avenue....	Fifty-ninth (North)....	Bryn Maur avenue....	2,660	6
Lincoln avenue....	Berteau avenue....	Sulzer.....	1,475	8
Lincoln avenue....	Grace.....	Addison avenue....	1,510	8
Lincoln avenue....	Lawrence avenue....	Southward.....	1,430	8
Lincoln avenue....	Crossing.....	Leo place.....	20	6
Lincoln avenue....	Webster avenue....	Lawrence avenue....	1,769	8
Melrose.....	Paulina.....	Wood.....	608	6
Noble avenue....	Sheffield avenue....	Baxter.....	327	6
Fifty-ninth (North)	Crossing.....	Clark.....	49	6
Fifty-ninth (North)	Clark.....	Southport avenue....	1,005	8
Pemberton avenue..	Sulzer.....	Lawrence avenue....	2,658	8
Pensacola.....	Hoyne avenue....	Westward.....	232	6
Pensacola.....	Crossing.....	Lincoln avenue....	23	6
Perry.....	Dunning.....	Lill avenue.....	369	6
Peterson avenue....	Crossing Forest avenue..	Ridge avenue....	77	6
Pine Grove avenue..	Belmont avenue....	Southward.....	288	6
Pleasant.....	Peterson avenue....	Fulton.....	425	6
Ridge avenue....	Crossing.....	Peterson avenue....	12	6
Robey.....	George.....	South and connect....	42	4
Rokeby.....	Crossing.....	Cornelia.....	21	6





SIXTY-EIGHTH STREET INTERMEDIATE CRIB.

## LAKE VIEW DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet	Diameter in inches.
Rokeby.....	Grace.....	Waveland avenue.....	756	6
Rubens.....	Crossing.....	Grand avenue.....	55	6
Rubens.....	Grand avenue.....	Ernst avenue.....	714	6
Seminary avenue.....	Crossing.....	George.....	67	6
Southport avenue.....	Berwyn.....	Balmoral.....	617	6
Southport avenue.....	Grace.....	Graceland avenue.....	1,303	6
Southport avenue.....	Crossing.....	Grand avenue.....	55	8
Southport avenue.....	Grand avenue.....	Ernst.....	880	8
Southport avenue.....	Fifty-ninth (North).....	Berwyn.....	695	6
Sulzer.....	Claremont.....	Westward.....	130	8
Sulzer.....	Robey.....	Lyman.....	420	8
Sulzer.....	Halsted.....	Eastward.....	212	36
Sulzer.....	Lake View Pumping Works.....	.....	24	30
Sulzer.....	Sheffield avenue.....	Stella.....	763	36
Summerdale avenue.....	Crossing.....	Southport avenue.....	43	6
Thome avenue.....	Clark.....	Southport avenue.....	1,331	6
Waubun avenue.....	Oakdale avenue.....	Wellington avenue.....	323	6
Waveland avenue.....	Crossing.....	Lincoln avenue.....	83	6
Waveland avenue.....	Crossing.....	Rokeby.....	71	6
West court.....	Belmont avenue.....	Southward.....	291	6
Wilson avenue.....	Arlington.....	Pemberton avenue.....	330	6
Wilton avenue.....	Crossing.....	Cornelia.....	19	6
Winthrop avenue.....	Grand avenue.....	Northward.....	687	6
Total.....			42,247	
Add branch pipe for hydrants.....			492	4
Add branch pipe for hydrants.....			468	6
Total feet laid in Lake View District.....			43,207	



## LAKE DISTRICT.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Aberdeen	Crossing	Forty seventh	25	6
Ada	Fifty-ninth	Crossing	41	6
Ada	Sixtieth	Southward	506	6
Ada	Sixty-third	Northward	116	6
Alley N. of Fifty-fifth	Crossing	Center avenue	66	6
Alley S. of Fifty-fifth	Crossing	Center avenue	25	6
Alley S. of Fifty-fifth	Crossing	Morgan	48	8
Ashland avenue	63 ft. S. of the River	7 ft. S. of Forty-third	1,776	24
Ashland avenue	Sixty-third	Southward	489	8
Ashland avenue	Sixty-fifth	Northward	250	8
Bishop	Crossing	Fifty-ninth	66	6
Carpenter	Crossing	Fifty-first	32	6
Carpenter	Crossing	Fifty-sixth	66	6
Carpenter	Fifty-sixth	South	388	6
Carpenter	Crossing	Fifty-seventh	45	6
Cook	Crossing	Fifty-first	25	6
Dearborn	Forty-third	Forty-third court	288	6
Dearborn	Forty-fifth court	Northward	194	4
Eggleston avenue	Crossing	Seventy-ninth	42	6
Elizabeth	Crossing	Fifty-ninth	66	6
Emerald avenue	Fifty-fourth	Northward	110	6
Fiftieth	Crossing	Center avenue	41	6
Fiftieth	Hoyne avenue	Eastward	163	6
Fifty-second	Crossing	Center avenue	66	6
Fifty-third	Crossing	Center avenue	66	8
Fifty-third	Tracey avenue	Princeton avenue	342	6
Fifty-fourth	Crossing	Center avenue	66	6
Fifty-fourth	Union avenue	Halsted	618	6
Fifty-fourth court	Halsted	Union avenue	618	6
Fifty-sixth	Crossing	Center avenue	66	6
Fifty-seventh	Crossing	Center avenue	41	8
Fifty-seventh	Halsted	Center avenue	2,589	8
Fifty-eighth	Crossing	Center avenue	66	6
Fifty-ninth	Halsted	Peoria	636	6
Forty-second	Crossing	Sherman	66	6
Forty-fourth	Crossing	Armour avenue	66	6
Forty-fourth	Crossing	Dearborn	66	6
Forty-fifth	State	14 ft. E. of Clark	688	6
Forty-sixth	Crossing	Armour avenue	66	6
Forty-sixth	Crossing	Dearborn	66	6
Forty-sixth	Princeton avenue	50 ft. E. of Princeton ave.	116	6
Forty-sixth court	Crossing	Princeton avenue	66	6
Forty-eighth	Crossing	Center avenue	25	6
Forty-ninth	Crossing	Center avenue	66	6
Forty-ninth court	Crossing	Center avenue	41	6
Frazier	Crossing	Fifty-first	30	6
Green	Fifty-seventh	Northward	355	6
Green	Crossing	Fifty-seventh	66	6
Green	Crossing	Fifty-ninth	41	6
Green	107 ft. S. of Seventy-fourth	Southward	123	6
Green	Seventy-fifth	Northward	194	6
Hanover	Forty fourth	Northward	46	4
Homan avenue	Fifty-second	Southward	550	6

## LAKE DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Hoyne avenue.....	Fiftieth .....	Fifty-first .....	660	6
Justine .....	340 ft. N. of Sixty-fourth.	Northward.....	156	6
Justine .....	Crossing.....	Fifty-ninth.....	25	6
Laflin .....	Crossing.....	Fifty-ninth.....	66	6
Lawndale avenue.....	Fifty-second .....	Southward.....	288	6
Loomis .....	Crossing.....	Fifty-ninth.....	41	6
Loomis .....	Sixtieth.....	Southward.....	530	6
Marshall.....	Crossing.....	Forty-third court .....	25	4
Marshall.....	Crossing.....	Forty-fourth.....	41	4
Marshfield avenue.....	Crossing.....	Forty-seventh.....	33	6
Marshfield avenue.....	Sixty third.....	Sixty-seventh.....	2,600	6
Pago .....	Sixty-third.....	Sixty seventh.....	2,600	6
Paulina.....	Sixty-third.....	Sixty-seventh.....	2,600	6
Peoria.....	Crossing.....	Fifty-first.....	66	6
Peoria.....	Crossing.....	Fifty-seventh.....	41	6
Peoria.....	Crossing.....	Fifty-ninth.....	41	6
Princeton avenue.....	Forty-fifth.....	Swan.....	941	6
Sangamon .....	Seventieth.....	Northward.....	375	6
Sangamon .....	Crossing.....	Fifty-seventh.....	41	6
Sangamon .....	Crossing.....	Fifty-ninth.....	41	6
Sherman.....	Fifty-ninth.....	Southward.....	153	6
Sherman.....	Crossing.....	Fifty-first.....	25	6
Sherman.....	Crossing.....	Fifty-ninth.....	25	6
Sherman.....	Root .....	Forty-third.....	926	6
Seventieth court.....	Webster avenue.....	Westward.....	205	4
Seventy-third.....	State.....	LaFayette avenue.....	370	6
Sixtieth.....	Crossing.....	Union avenue.....	25	6
Sixty-third.....	Bishop.....	Westward.....	178	12
Sixty-third.....	Crossing.....	Bishop.....	24	6
Sixty-fifth.....	Wood .....	Ashland avenue.....	1,350	8
Sixty-sixth court.....	Honore.....	Wright.....	521	6
Tracey avenue.....	Crossing.....	Fifty-first.....	36	6
Throop.....	Fifty first.....	Southward.....	25	6
Throop.....	Fifty-ninth.....	Sixtieth.....	666	6
Throop.....	Crossing.....	Fifty-ninth.....	66	6
Tracey avenue.....	Fifty-third.....	Southward.....	20	6
Tracey avenue.....	Crossing.....	Forty-ninth.....	28	6
Tracey avenue.....	Forty-ninth.....	Fifty-first.....	1,519	6
Trumbull avenue.....	Fifty-second.....	Southward.....	520	6
Union avenue.....	Sixtieth.....	Northward.....	374	6
Union avenue.....	662 ft. N. of Vincennes road	Northward.....	170	6
Union avenue.....	Vincennes road.....	Northward.....	662	6
Vincennes road.....	Seventy-second.....	Seventy-third.....	705	6
Vincennes road.....	Crossing.....	Union avenue.....	32	8
Wallace.....	Fifty-first.....	Southward.....	482	6
Wallace.....	Forty-third court.....	Forty-fourth.....	266	4
Wallace.....	Forty-eighth court.....	Southward.....	155	6
Western avenue.....	Fifty-first.....	Southward.....	291	8
William.....	Crossing.....	Forty-third court.....	41	4
Winchester avenue.....	Forty-ninth.....	Fifty-first.....	1,362	6
Winneconne.....	Wright.....	West.....	564	6
Wood .....	Sixty-third.....	Sixty-seventh.....	2,600	8
Wright.....	Crossing.....	Forty-fourth.....	21	6

## LAKE DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Wright.....	Crossing.....	Seventy-ninth.....	42	6
Yale.....	Crossing.....	Seventy-fourth.....	38	6
Total.....			38,562	
Add branch pipe for hydrants .....			564	4
Add branch pipe for hydrants.....			1,296	6
Total feet laid in Lake district .....			40,422	

## JEFFERSON DISTRICT.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Armitage avenue ...	Howard avenue.....	Crawford avenue.....	1,962	12
Avers avenue.....	Crossing.....	North avenue.....	50	6
Belmont avenue (North side)	Elston avenue.....	Eastward.....	150	6
Belmont avenue (South side)	Elston avenue.....	Eastward.....	100	8
Belmont avenue.....	Milwaukee avenue.....	137 ft. W. of Byrne.....	3,573	8
Brunswick.....	Crossing.....	Belmont avenue.....	90	6
Burchell.....	Crossing.....	Humboldt avenue.....	284	8
Byrne avenue.....	Crossing.....	Belmont avenue.....	43	6
Castello.....	Diversey avenue.....	Evergreen.....	636	6
Center.....	Holman avenue.....	Greshman.....	155	6
Central Park avenue	Crossing.....	Belmont avenue.....	90	8
Columbia avenue.....	Crossing.....	Armitage avenue.....	54	8
Cortland.....	Connect.....	At Engine House.....	31	4
Crawford avenue.....	Crossing.....	Armitage avenue.....	36	12
Crawford avenue.....	Crossing.....	Sulzer.....	120	12
Crawford avenue.....	Wabansia avenue.....	Northward.....	578	12
Dickens avenue.....	Mozart.....	Humboldt avenue.....	380	6
Dickens avenue.....	Sheridan avenue.....	Kimball avenue.....	448	6
Diversey avenue.....	82 ft. E. of Crawford avenue	Hamlin avenue.....	1,213	8
Diversey avenue.....	Wallace.....	Eastward.....	248	8
Dresden avenue.....	Crossing.....	Belmont avenue.....	36	6
Eberly avenue.....	Crossing.....	Belmont avenue.....	36	6
Edwards.....	Milwaukee avenue.....	Maynard.....	636	6
Eldridge.....	Brunswick.....	Eastward.....	500	6
Elston road.....	Crawford avenue.....	Northwestward.....	618	6
Elston road.....	114 ft. N. W. of Roscoe	North.....	110	8
Fairview avenue.....	Evergreen avenue.....	Southward.....	254	6
Fortieth place.....	Crossing.....	North avenue.....	75	6
Forty-first.....	Crossing.....	North avenue.....	50	6
Garden avenue.....	82 ft. E. of Thomas.....	Eastward.....	108	6
Grant.....	Crossing.....	Armitage avenue.....	96	6
Greenwood avenue.....	Crossing.....	California avenue.....	48	8
Greenwood avenue.....	Crossing.....	Elston avenue.....	14	6
Gresham.....	Center.....	Southward.....	263	6
Guttenberg.....	Crossing.....	Armitage avenue.....	84	6
Hamlin avenue.....	Crossing.....	Belmont avenue.....	42	6
Hamlin avenue.....	Diversey avenue.....	Evergreen.....	636	8
Hamlin avenue.....	Crossing.....	North avenue.....	50	8
Harding.....	Crossing.....	North avenue.....	50	6
Hinkley avenue.....	Crossing.....	Armitage avenue.....	72	6
Hinkley avenue.....	Crossing.....	North avenue.....	50	6
Hollowell.....	57 ft. S. of Huntington.....	42 ft. N. of Strong.....	70	6
Homan avenue.....	Belmont avenue.....	Northward.....	57	6
Humboldt bld (S. s.)	Crossing.....	Burchell.....	84	6
Humboldt bld (N. s.)	Crossing.....	Burchell.....	84	6
Humboldt boulevard	Crossing.....	California avenue.....	94	6
Humboldt bld (S. s.)	Forrest avenue.....	Maplewood avenue.....	330	6
Humboldt bld (S. s.)	Laurel avenue.....	Westward.....	181	6
Humboldt bld (N. s.)	Crossing.....	Thomas.....	78	6
Humboldt bld (S. s.)	Crossing.....	Thomas.....	88	6
Irving avenue.....	Armitage avenue.....	Southward.....	380	6
Joseph avenue.....	Crossing.....	Belmont avenue.....	42	6
Kedzie avenue.....	Crossing.....	Belmont avenue.....	55	6
Kedzie avenue.....	Crossing.....	Sulzer.....	120	12
Kimball avenue.....	Dickens avenue.....	Northward.....	335	8

## JEFFERSON DISTRICT—CONTINUED.

STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Lill avenue .....	132 ft. W. of Oakley avenue	108 ft. E. of Oakley avenue	306	6
Oakley avenue .....	Crossing .....	Lill avenue .....	76	6
Park avenue .....	Crossing .....	Belmont avenue .....	45	6
Park avenue .....	Woodard .....	Southward .....	387	6
Pennsylvania avenue	Crossing .....	Armitage avenue .....	96	8
Pennsylvania avenue	Crossing .....	North avenue .....	50	6
Sheridan avenue .....	Armitage avenue .....	Northward .....	629	6
Sheridan avenue .....	Crossing .....	Belmont avenue .....	43	6
Springfield avenue .....	Crossing .....	Armitage avenue .....	84	8
Springfield avenue .....	Crossing .....	Diversey avenue .....	26	8
Springfield avenue .....	Crossing .....	North avenue .....	50	8
Sulzer .....	Crossing .....	Crawford avenue .....	100	8
Sulzer .....	Irving avenue .....	Eastward .....	421	8
Sulzer .....	852 ft. E. of Kedzie avenue	Westward .....	7,720	24
Sulzer .....	Crossing .....	Kedzie avenue .....	100	8
Sulzer .....	1,295 ft. W. of Western avenue	Westward .....	621	24
Summers avenue .....	Crossing .....	Armitage avenue .....	76	6
St. Helen .....	Stave .....	Southward .....	235	4
Thomas .....	Crossing .....	Humboldt boulevard .....	282	8
Wabunsia .....	Crossing .....	Crawford avenue .....	84	8
Wilmet avenue .....	Thomas .....	Westward .....	290	4
Total .....			27,838	
Add branch pipe for hydrants .....			72	4
Add branch pipe for hydrants .....			360	6
Total feet laid in Jefferson district .....			28,270	

## CALUMET DISTRICT.

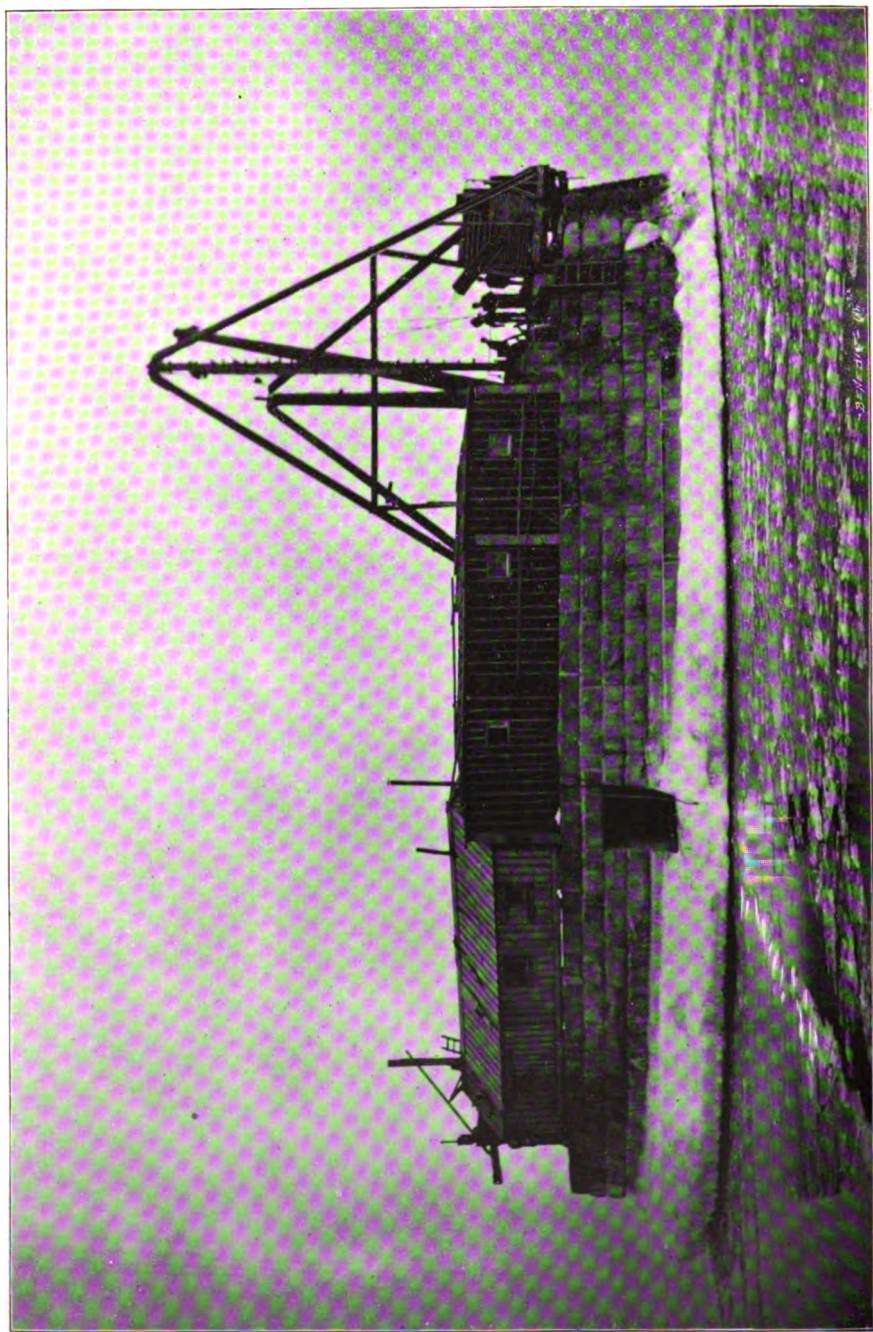
STREET.	FROM	TO	Length of Pipe in feet.	Diameter in inches.
Ada.....	Eighty-eighth.....	Southward.....	820	6
Church.....	Hundred and third.....	Hundred and fourth.....	676	6
Clark.....	Hundred and twenty-third.....	Hundred and twenty-fourth.....	633	6
Clinton.....	Hundred and nineteenth.....	Hundred and twenty-first.....	1,253	6
Dearborn.....	Hundred and twenty-third.....	Hundred and twenty-fourth.....	633	6
Eighty-eighth.....	Throop.....	Loomis.....	690	6
Elizabeth.....	Eighty-seventh.....	Southward.....	1,089	6
Emerald avenue.....	Hundred and nineteenth.....	Hundred and twentieth.....	499	6
Emerald avenue.....	Hundred and twentieth.....	Hundred and twenty-first.....	632	6
Halsted.....	Eighty-eighth.....	Eighty-ninth.....	662	8
Halsted.....	Hundred and nineteenth.....	Hundred and twenty-third.....	2,608	8
Howard.....	Ninety-ninth.....	Northward.....	1,852	6
Jefferson.....	Ninetieth.....	Southward.....	590	6
Jefferson avenue.....	Hundred and twentieth.....	Hundred and twenty-third.....	1,969	6
Kimball.....	Tremont.....	Eastward.....	642	6
Loomis.....	Eighty-eighth.....	Southward.....	850	6
Hundred and eighth place.....	Wentworth avenue.....	Eastward.....	276	6
Hundred and eighteenth.....	Crossing.....	Stewart avenue.....	21	6
Hundred and fifteenth.....	Gano avenue.....	Canal.....	798	12
Hundred and eleventh.....	State.....	86 ft. East of Stewart avenue.....	2,597	8
Hundred and eleventh place.....	State.....	285 ft. West of Portland avenue.....	2,309	6
Hundred and tenth.....	State.....	350 ft. West of Portland avenue.....	2,397	6
Hundred and tenth place.....	Wentworth avenue.....	222 ft. West of C. & E. I. R. R.....	1,492	6
Hundred and twelfth.....	Stewart avenue.....	State.....	2,627	6
Hundred and twentieth.....	Crossing.....	Halsted.....	23	6
Hundred and twentieth.....	Portland avenue.....	Union avenue.....	2,640	6
Hundred and twentieth.....	Union.....	Halsted.....	626	6
Hundred and twenty-third.....	State.....	Wentworth avenue.....	1,274	6
Portland avenue.....	Hundred and nineteenth.....	Hundred and twentieth.....	666	6
Shields avenue.....	Hundred and thirteenth.....	Hundred and fifteenth.....	1,288	6
Shields avenue.....	Hundred and nineteenth.....	Hundred and twenty-third.....	2,587	6
Spruce.....	Ninety-third.....	Ninety-fourth.....	600	6
State.....	Hundred and nineteenth.....	Hundred and twenty-third.....	2,698	6
State.....	Hundred and twenty-third.....	Hundred and twentieth.....	632	6
Stewart avenue.....	Hundred and sixteenth.....	Hundred and nineteenth.....	2,040	8
Stewart avenue.....	Hundred and nineteenth.....	Hundred and twenty-third.....	2,586	6
Throop.....	Eighty-seventh.....	Eighty-ninth.....	1,250	6
Tremont.....	206 ft. North of Hundred and third.....	Kimball.....	450	6
Union avenue.....	Hundred and nineteenth.....	Hundred and twentieth.....	627	6
Union.....	Hundred and twentieth.....	Hundred and twenty-first.....	633	6
Wentworth avenue.....	Hundred and eighth.....	Hundred and eleventh.....	1,697	8
Wentworth avenue.....	Crossing.....	Hundred and eleventh.....	45	8
Wentworth avenue.....	Hundred and eleventh.....	Hundred and thirteenth.....	1,372	8
Total.....			52,294	
Add branch pipe for hydrants.....			468	4
Add branch pipe for hydrants.....			876	6
Total for Calumet district.....			53,638	

## RECAPITULATION OF PIPE LAID DURING 1892, INCLUDING HYDRANT BRANCHES.

DIVISION.	DIAMETER OF PIPE IN INCHES.								Total length of pipe in feet.
	4-inch.	6 inch.	8-inch.	12-inch.	16-inch.	24-inch.	30-inch.	36-inch.	
North.....	24	304	1,496	.....	.....	.....	.....	.....	1,824
South .....	656	15,929	11,557	891	.....	3,332	.....	589	32,954
West .....	1,492	41,725	17,488	2,689	1,690	.....	.....	.....	65,084
Hyde Park.....	1,192	45,551	2,281	4,091	.....	.....	.....	.....	53,105
Lake View.....	1,782	25,967	14,459	.....	.....	.....	24	975	43,207
Lake.....	1,472	29,240	7,756	178	.....	1,776	.....	.....	40,422
Jefferson.....	638	7,883	8,602	2,816	.....	8,341	.....	.....	28,270
Calumet.....	403	38,770	18,607	793	.....	.....	.....	.....	53,638
Total in Feet.....	7,704	205,369	77,246	11,458	1,600	13,449	24	1,564	318,504







C. P. KEMBLE, PHOTO.

OUTER CRIB ON FOUR-MILE TUNNEL.

THE FOLLOWING TABLE SHOWS THE NUMBER OF STOP-VALVES PUT IN DURING THE YEAR 1892, IN THE CITY OF CHICAGO.

DIVISION.	SIZE OF VALVES.							TOTAL
	4-in.	6-in.	8-in.	12-in.	16-in.	24-in.	36 in.	
North .....			7					7
South.....	2	25	23	1	1	2		54
West.....	10	71	28	6	1			116
Hyde Park.....	14	115	18	7	1			155
Lake View.....	5	28	14	3		2		52
Lake.....	11	67	33	12	1	3	2	129
Jefferson .....	1	36	33	9		5		84
Calumet.....		35	17					52
Total.....	43	377	173	38	4	12	2	649

During the year 1892 one 6-inch valve in the South Division was replaced by an 8-inch valve; in the West Division one 4-inch valve was replaced by an 8-inch valve, and in the Hyde Park district two 4-inch valves were replaced by 6-inch valves.

TABLE SHOWING NUMBER AND SIZES OF VALVES IN USE IN THE CITY OF CHICAGO AT THE CLOSE OF 1892.

DIVISION.	SIZE OF VALVES.												TOTAL	
	3 inch.	4 inch.	6 inch.	8 inch.	10 inch.	12 inch.	14 inch.	16 inch.	18 inch.	20 inch.	24 inch.	30 inch.		36 inch.
North . . . . .		169	406	281	....	32	....	13	....	....	12	....	3	916
South . . . . .		156	659	649	....	80	....	19	....	....	29	....	13	1,605
West. . . . .		574	1,834	1,046	....	233	....	64	....	....	31	....	11	3,793
Hyde Park. . . . .		90	801	172	20	56	4	42	....	1	13	3	3	1,205
Lake View. 1		246	532	115	....	29	3	2	....	3	5	....	..	936
Lake. . . . .	4	116	844	258	2	62	13	13	2	....	17	....	2	1,333
Jefferson. . . . .		1	276	146	....	31	....	....	....	....	5	....	....	459
Calumet. . . . .		1	89	42	....	5	....	....	....	....	....	....	....	137
Total . . .	5	1,353	5,441	2,709	22	528	20	153	2	4	112	3	32	10,384

THE FOLLOWING TABLE SHOWS THE HYDRANTS PLACED IN 1892, IN THE CITY OF CHICAGO.

DIVISION.	2½-inch Single.	2¼-inch Double.	4-inch Double.	TOTAL.
North.....	2	4	1	7
South.....	23	11	2	36
West.....	28	135	.....	163
Hyde Park.....	47	57	.....	104
Lake View.....	41	39	.....	80
Lake.....	47	107	1	155
Jefferson.....	6	30	.....	36
Calumet.....	39	73	.....	112
Total.....	233	456	4	693

During the year 1892, there were taken out in the West Division four 2½-inch single hydrants, and in the South Division one 2½-inch single hydrant, all of which were replaced by 2½ inch double-nozzle hydrants.

TABLE SHOWING TOTAL NUMBER OF FIRE HYDRANTS IN THE CITY OF CHICAGO AT THE CLOSE OF 1892.

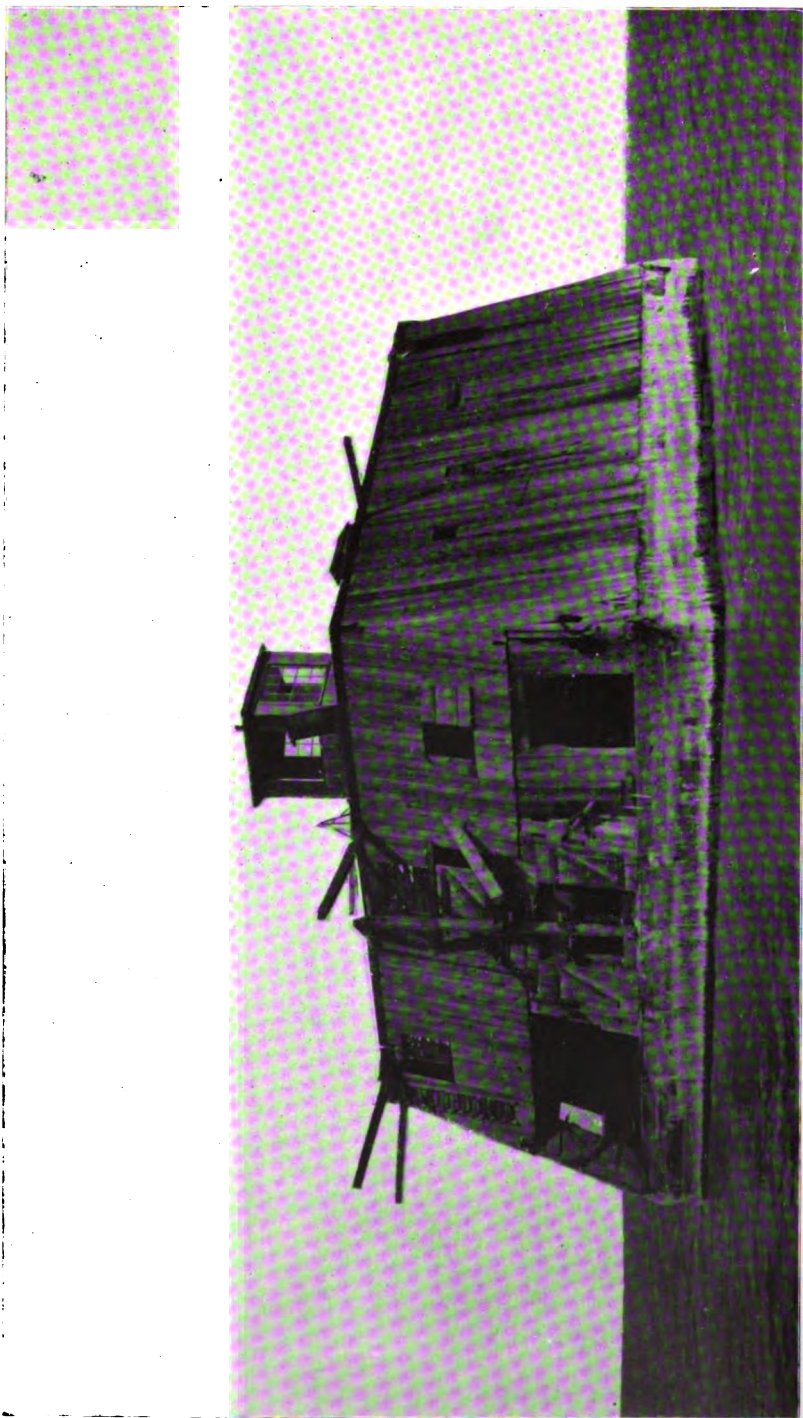
DIVISION.	2½-inch Single.	2¼-inch Double.	4-inch Double.	2¼-inch Double, with one 4-inch Single.	TOTAL.
North.....	419	477	132	.....	1,028
South.....	790	961	194	.....	1,945
West.....	1,487	3,259	237	.....	4,983
Hyde Park.....	239	1,287	8	605	2,139
Lake View.....	133	792	.....	1	926
Lake.....	114	425	1	1,597	2,137
Jefferson.....	51	573	.....	.....	624
Calumet.....	67	105	.....	55	317
Total.....	3,300	7,969	572	2,258	14,099

TABLE SHOWING AMOUNT OF PIPE IN THE CITY OF CHICAGO AT THE CLOSE OF 1892.

Diameter of Pipe.	1891.	1892.			
	Amount in Use in Feet.	Amount Taken up or Abandoned in Feet.	Amount Laid in Feet.	Grand Total in Feet in Use at the close of 1892.	Grand Total in Miles.
48	1,355	.....	.....	1,355	0.1155
36	91,341	.....	1,564	92,905	17.1118
30	5,577	.....	24	5,601	1.1210
28	160	.....	.....	160	0.1180
24	184,029	.....	13,449	197,478	37.1118
20	7,931	.....	.....	7,931	1.1111
18	1,000	.....	.....	1,000	0.1188
16	204,751	.....	1,690	206,441	39.1210
14	22,552	.....	.....	22,552	4.1111
12	440,405	.....	11,458	451,863	85.1111
10	26,860	.....	.....	26,860	5.1180
8	1,445,011	1,241	77,246	1,521,016	288.1210
6	3,579,555	9,329	205,869	3,775,595	715.1210
4	1,083,365	13,963	7,704	1,077,106	203.1111
3	16,964	648	.....	16,316	3.1210
Total in Feet.....	7,110,866	25,181	318,504	7,404,179	.....
Total in Miles.....	1,346.1118	4.1111	60.1111	1,402.1118	1,402.1118

The following table shows the work of the Meter Department, Mr. P. S. Storm in charge:





TWO-AND-ONE-HALF-MILE CRIB (ABANDONED).

## WATER METERS.

SIZE OF METERS.	¾-inch.	¾-inch.	1-inch.	1½-in.	2-inch.	3-inch.	4-inch.	6-inc h.	10-inch.	Injectors.	Totals.
Meters in service December 31, 1891.....	431	323	1,135	808	761	504	99	16	2	2	4,131
New Meters added during 1892.....	1	46	116	134	109	44	16	9	.....	.....	475
New Meters added during 1892, furnished by private parties.....	.....	.....	5	3	5	2	7	1	.....	.....	23
Total.....	432	369	1,256	945	875	550	122	26	2	2	4,629
City Meters removed during 1892.....	39	5	96	22	9	12	.....	.....	.....	.....	183
Private Meters removed during 1892.....	27	23	36	12	11	11	.....	.....	.....	.....	120
Meters in service December 31, 1892.....	416	341	1,124	911	855	527	122	26	2	2	4,326
Meters owned by City.....	76	31	217	74	56	83	.....	2	.....	.....	539
Meters owned by private parties.....	340	310	907	837	799	444	122	24	2	2	3,787
Meters in stock December 31, 1891.....	39	16	47	20	3	3	1	.....	.....	.....	129
Meters purchased from manufacturers.....	.....	30	.....	117	94	24	16	9	.....	.....	290
City Meters removed, repaired and in stock.....	7	5	66	17	9	10	1	.....	.....	.....	115
Meters purchased from private parties.....	17	20	25	12	15	12	.....	.....	.....	.....	101
Total.....	63	71	138	166	121	49	18	9	.....	.....	635
Meters placed during 1892.....	1	46	116	134	109	44	16	9	.....	.....	475
Meters sold to private parties.....	37	6	2	1	2	.....	.....	.....	.....	.....	48
Meters rented temporarily.....	2	.....	1	1	1	.....	.....	.....	.....	.....	5
Meters in stock December 31, 1892.....	23	19	19	30	9	5	2	.....	.....	.....	107
Meters removed to works, repaired and replaced.....	36	15	28	23	28	22	3	1	.....	.....	156
Meters examined and repaired.....	690	287	1,043	737	812	526	130	28	96	.....	4,349



## EAST END PARK IMPROVEMENT.

An appropriation of \$10,000 for the improvement of the City's property on the lake front between Fifty first and Fifty-third streets had been made ; also an appropriation of \$3,000 for the extension of Fifty-first street sewer. This latter appropriation was turned over by the Sewer Department to the City Engineer. This is a wooden sewer, formed of piles and planking, and was built by the O. B. Green Dredging Co. It was finished November 30, 1892, and is 340 feet long.

The breakwater near this sewer was in a very dilapidated condition. The upper parts of the piles were decayed, and the stone filling washed out. To restore this work, it was decided by the City Engineer to cut off the piles eighteen inches above the water, and on this foundation build crib-work of 12x12 inch timbers tied together. The contract for this improvement was awarded to the Kimball & Cobb Stone Co., on November 4, 1892. The length of this breakwater is 1,150 feet, and the earth filling is estimated at about 65,000 cubic yards.

Mr. John Ericson has superintended this work.

Yours very respectfully,

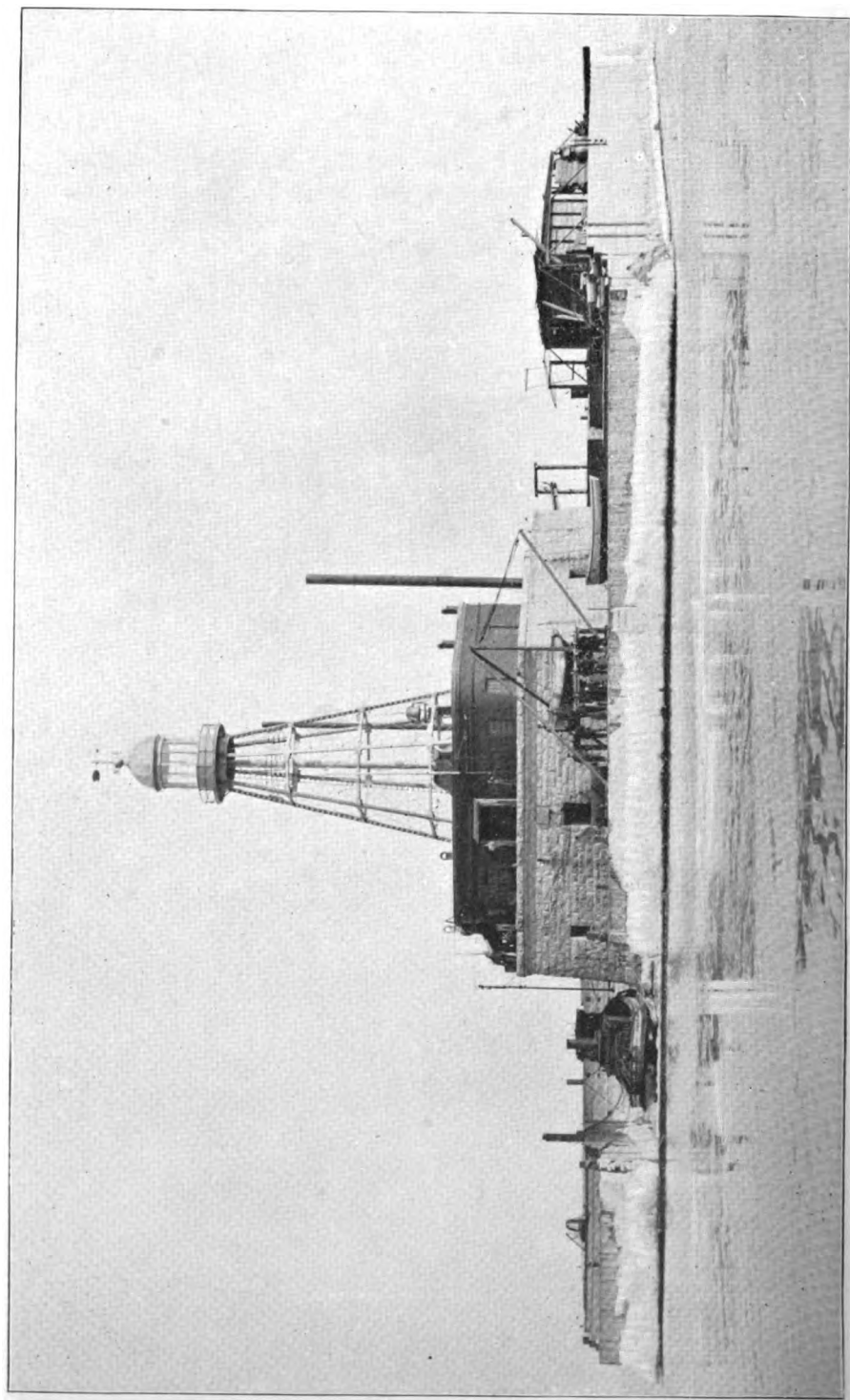
L. H. CLARK,

*City Engineer.*

BERNHARD FEIND,

*Consulting Engineer.*





CHICAGO AVENUE CRIB.

C. P. KEMBLE, PHOTO.



C. P. KEMBLE, PHOTO.

TOWER ON CHICAGO AVENUE CRIB.



LIST OF DIAGRAMS AND ILLUSTRATIONS ACCOMPANYING  
ANNUAL REPORT OF CITY ENGINEER FOR THE YEAR 1892.

Diagram of Pumpage for 1892, 3 sheets.  
Diagram to accompany Harbor Report, 1 sheet.

PLANS.

Plan of Sixty-eighth street Pumping Station, 1 sheet.  
Plan of all the Tunnels, 1 sheet.  
Plan and Profile of Four-Mile Tunnel, 1 sheet.  
Plan of N. Halsted street Viaduct, 1 sheet.  
Plan of N. Clark street Viaduct, 1 sheet.  
Plan of Canal street Lift Bridge, 1 sheet.  
Plan of Washington Heights Pumping Station, 1 sheet.

PHOTOGRAPHS.

Ogden avenue Viaduct, 1 exterior.  
Madison street Bridge, 1 exterior.  
Lake View Pumping Works, 1 exterior.  
Fourteenth street Pumping Station, 1 interior, 1 exterior.  
Sixty-eighth street Pumping Station, 1 interior, 1 exterior.  
Sixty-eighth street Intermediate Crib, all exterior.  
Lighthouse on Two-Mile Crib, all exterior.  
Two-Mile Crib, entire, all exterior.  
Four-Mile Crib, all exterior.  
Sixty-eighth street Outer Crib, all exterior.  
Lake View Outer Crib, all exterior.  
Lake View Temporary or Inner Crib, all exterior.  
Two and One-half Mile Crib (abandoned), all exterior.





**REPORT**  
*of the*

**BUREAU OF WATER RATES**

**CITY OF CHICAGO**





# WATER OFFICE REPORT.

J. FRANK ALDRICH, Esq.,

*Commissioner of Public Works.*

DEAR SIR :—I have the honor to herewith submit annual report of Water Office, for the fiscal year ending December 31, 1892, and respectfully call your attention to the fact that \$2,592,111.67 has been collected during the year, as against \$2,331,286.20 for the preceding year, showing a net increase of \$260,825.47, which is in a great measure due to the persistency of my predecessor, Wm. Lorimer (who resigned on the 15th day of September, and on which date I was appointed his successor), in making the annual assessment, and covering the whole City within the year, thereby bringing on the books for collection a much larger assessment than that of any preceding year; again the prompt collection of this large assessment is due to a great extent to the establishment of 149 sub-stations, through the U. S. and P. Express Companies, making it possible for people living in the outlying wards and suburbs to pay their taxes near at home at a very small rate.

The companies are increasing their sub-stations monthly, and it is my opinion that the time is not far distant when at least half of the money due this department will be collected through these convenient agencies. It has also obviated the necessity of furnishing more space for the Water Office proper at the present, for the reason that the many thousands of tax-payers who paid at the above mentioned companies' sub-stations were relieved from paying at this office, which of necessity would be crowded to its utmost capacity.

The receipts of the Meter Department have largely increased during the past year, the total collection amounting to \$795,292.72, showing a net increase of \$78,224.67 over that of the preceding year, which is almost double the increase of the year 1891 over that of 1890.

I respectfully call your attention to the necessities of the Permit and Assessor's sub-departments, asked for in former reports. These departments are of necessity together, and have been working under great disadvantages for the past six years for want of more room, light and ventilation, and would recommend that some relief be given them as soon as possible.

I would also recommend the renewal of the old plat books in the Assessor's department at once; they have been in constant use since 1868,

and are in many instances becoming entirely obliterated; the department should also be furnished with a complete set of plat books of all the annexed territory to the "old city" within the water district, as in making all assessments for improvements the department has to resort to tracings taken from the county records, instead of having plat books in which to keep the proper records.

In closing I desire to express my obligations for the uniform kindness and courtesies shown me by yourself and all the members of your official staff.

Respectfully submitted,

EDWARD J. DWYER,

*Superintendent of Water Department.*

Following is a recapitulated statement of the assessments and collections of the Water Office for the year 1892 :

*Dr.*

Delinquent assessed rates January 1, 1892 .....	\$ 276,917 72
Assessment May 1, 1892 .....	1,958,701 98
Assessor's increase checks .....	166,525 62
Meter rates .....	795,292 72
Meter repair .....	23,801 56
Water permits and licenses .....	45,208 04
Assessor's miscellaneous.....	19,881 04
	<hr/>
	\$3,286,328 68

*Cr.*

Amount collected January 1, 1892, to January 1, 1893 .....	\$2,592,111 67
Discounts .....	241,086 66
Assessor's decrease checks for municipal and public buildings.....	28,035 76
Assessor's decrease checks for religious, charitable and educational institutions,	23,897 76
Assessor's decrease checks for over-assessment as per affidavits, removals,	
changes to meter control, and other causes .....	153,498 49
Assessor's decrease checks per order of City Council.....	803 75
Balance uncollected January 1, 1893 ....	246,894 59
	<hr/>
	\$3,286,328 68

Table showing the monthly collections from January 1, 1892, to December 31, 1892 :

1892.	By Assessment.	Assess. Miscellaneous.	Water Permits.	Meter.	Meter Repair.	TOTAL.
January .....	\$ 71,526 62	\$ 32 12	\$55,341 21	\$ 947 80	\$1,739 90	\$129,587 65
February .....	36,799 93	31 24	64,573 09	1,232 08	5,515 09	108,156 38
March .....	32,359 86	60 04	62,138 80	2,165 77	6,033 80	102,758 27
April .....	19,207 50	1,214 22	57,394 69	2,229 11	3,971 50	84,017 02
May .....	403,703 45	1,169 00	62,868 77	2,816 05	3,516 20	474,073 47
June .....	276,195 56	1,860 16	59,083 70	1,188 86	3,052 80	341,368 08
July .....	90,357 81	5,031 88	66,594 77	2,243 45	3,879 00	168,106 91
August .....	50,091 76	2,978 81	75,845 05	1,600 11	4,126 50	134,342 23
September .....	30,918 04	2,087 14	74,853 99	2,637 14	4,418 60	114,914 91
October .....	52,116 22	1,363 26	69,122 03	2,567 39	3,289 70	123,458 60
November .....	358,904 06	2,842 14	72,384 83	1,880 94	3,427 80	439,379 77
December .....	285,748 00	1,211 53	75,461 79	2,292 91	2,237 15	366,961 38
TOTALS .....	\$1,707,928 81	\$19,881 04	\$796,292 72	\$53,801 56	\$45,208 04	\$2,592,111 07

The following table shows the work done by the leak and waste, and shut-off forces :

## SHUT-OFF AND LEAK AND WASTE FORCES.

MONTHS.	Bills Delivered.	Shut-off Notices Delivered.	Shut-off for Unpaid Taxes.	Notices of Leak and Waste.	Shut-off for Leak and Waste.	Complaints Investigated.	Hose Reported.	Water Turned On.
January .....		7,230	5	84	18	106	.....	4
February .....		8,430	140	81	14	92	.....	32
March .....	9,740	820	137	97	18	104	.....	62
April .....	6,852	.....	194	88	22	108	.....	68
May .....	9,980	.....	129	78	30	79	.....	79
June .....		.....	23	92	33	94	420	43
July .....		.....	13	126	32	132	762	22
August .....		.....	76	94	26	103	833	34
September .....		.....	174	102	18	112	.....	82
October .....	43,560	.....	212	128	19	142	.....	128
November .....	29,060	.....	123	113	27	146	.....	72
December .....	5,610	6,447	38	153	23	172	.....	43
TOTAL .....	104,802	22,927	1,264	1,236	280	1,390	2,015	669

The following is a tabulated statement of the work of the Inspector's force for the year 1892:

## BUILDINGS EXAMINED.

1892.	One-Story.	Two-Story.	Three-Story.	Four-Story.	Five-Story.	Six-Story.	Seven-Story.	Eight-Story.	Nine-Story.	Ten-Story.	Eleven-Story.	Twelve-Story.	Thirteen-Story.	Fourteen-Story.	Sixteen-Story.	Seventeen-Story.	Twenty-one-Story.	Special Examination.
January. .	2,103	2,307	1,141	508	177	119	87	10	6	...	...	...	...	...	...	...	...	540
February .	1,712	2,211	521	607	221	40	90	7	2	...	...	...	...	...	...	2	...	390
March . .	1,511	1,269	480	721	112	30	4	13	2	...	...	...	...	...	...	2	...	521
April . . .	220	1,370	1,421	1,190	220	148	113	21	...	3	2	...	2	...	...	...	...	804
May . . . .	238	2,748	1,980	1,060	128	187	18	...	3	...	...	3	1	2	2	1	...	2,109
June . . . .	117	931	2,491	1,476	75	121	...	30	2	...	...	1	3	...	1	...	...	1,461
July . . . .	128	470	3,385	2,257	420	21	...	1	1	1	4	2	...	...	...	...	1	580
August . . .	221	720	4,083	2,206	225	7	49	3	3	1	...	...	...	...	...	...	...	490
September .	631	820	4,786	2,391	128	220	90	12	1	2	...	...	...	...	...	...	...	480
October . . .	1,221	2,250	3,895	1,891	720	6	...	...	...	...	...	...	...	...	...	...	...	501
November .	1,921	2,140	1,342	720	57	...	...	...	6	...	...	...	...	...	...	...	...	1,234
December .	1,714	2,943	1,540	960	7	1	2	...	1	...	...	...	...	...	...	...	...	840
TOTAL.	11,727	20,179	27,065	15,987	2,490	900	453	97	27	7	6	6	6	2	7	1	1	9,950

## WATER ASSESSOR'S REPORT.

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E. J. DWYER, ESQ.,

*Superintendent.*

DEAR SIR: In submitting my annual report I take pleasure in giving you a detailed statement of the work done by this sub-department of the Water Office during the fiscal year ending December 31, 1892, as follows:

1. Showing the amount of water tax assessed and on books, as per last report, on January 1, 1892, in Districts 1 to 5 inclusive, with the amount of increases and decreases up to April 30, 1892, being the close of the water revenue year.

2. Statement of miscellaneous assessments made and uncollected January 1, 1892, with the increases up to April 30, 1892.

3. Statement of the amount assessed and on books in district 1 to 5 inclusive from May 1, 1892, to April 30, 1893, together with the increases and decreases from May 1, 1892, to December 31, 1892, being the end of the municipal fiscal year.

4. Amount of miscellaneous assessments uncollected and on books May 1, 1892, with the increases and decreases made up to December 31, 1892.

5. Sixth district, as reported by Joseph Hardacre, Superintendent, showing the amount assessed and on books January 1, 1892, with the increases and decreases up to April 30, 1892.

6. Amount assessed in Sixth district, from May 1, 1892, to April 30, 1893, together with the increases and decreases up to December 31, 1892.

7. Seventh district, as reported by W. C. Lawson, Superintendent, which shows the amount on books on January 1, 1892, with the increases and decreases up to April 30, 1892.

8. Statement showing the amount on Seventh district books from May 1, 1891, to April 30, 1893, also the increases and decreases during each month up to the end of the fiscal year, December 31, 1892.

9. Showing a detailed statement of water service pipes, let and put in by contract during the year ending December 31, 1892, giving the number of pipes with aggregate cost on each street, also the amount of assessor's cost as paid into the water fund.

10. List of streets ordered by City Council for improvement on which we returned to Superintendent of Special Assessments estimates of number of water service pipes and amount of same during the year ending December 31, 1892.

## FIRST TO FIFTH DISTRICTS, INCLUSIVE.

Amount of water assessments on division book, as per last report, on

January 1, 1892..... \$1,471,208 02

Amount of increase checks from Jan. 1, 1892, to April 30, 1892, numbers 2,392 to 3,260.	Amount of decrease checks from Jan. 1, 1892, to April 30, 1892, numbers 1,341 to 1,649.
January, 1892....\$ 5,344 57	January, 1892....\$ 7,983 47
February, 1892.... 3,424 54	February, 1892.... 5,897 52
March, 1892..... 2,579 86	March, 1892..... 4,175 04
April, 1892..... 2,429 78	April, 1892..... 3,675 05
Total.....\$13,778 75	Total.....\$21,731 08

Decrease.....\$21,731 08

Increase..... 13,778 75

Net Decrease..... 7,952 33

Total amount assessed to April 30, 1892..... \$1,468,250 69

## MISCELLANEOUS ASSESSMENTS.

January 1, 1892, to April 30, 1892.

Uncollected January 1, 1892.....\$ 763 15

## INCREASE.

January, 1892.....\$ 44 12	
February, 1892..... 31 24	
March, 1892..... 76 12	
April, 1892..... 1,206 89	
Total increase from January 1, 1892, to April 30, 1892.....	1,358 37
Total.....	\$2,121 52

Amount of assessment for water from May 1, 1892, to April 30, 1893,  
exclusive of meters.....\$ 1,584,323 20

Increase from May 1, 1892, to December 31, 1892. Checks numbers 2 to 1824.	Decrease from May 1, 1892, to December 31, 1892. Checks numbers 1 to 1191.
May, 1892.....\$41,726 12	May, 1892.....\$ 20,981 99
June, 1892..... 13,295 19	June, 1892..... 17,003 59
July, 1892..... 10,455 77	July, 1892..... 8,104 14
August, 1892..... 14,113 80	August, 1892..... 13,821 77
September, 1892.. 7,081 67	September, 1892.. 42,898 67
October, 1892..... 4,508 39	October, 1892... 11,449 41
November, 1892... 3,458 27	November, 1892. 7,308 21
December, 1892... 3,671 30	December, 1892. 10,655 08
Total.....\$98,305 51	Total.....\$132,222 86

Decrease.....\$132,222 86

Increase..... 98,305 51

Net Decrease..... 33,917 35

Total assessment from May 1, 1892, to December 31, 1892.. \$1,550,405 85

## MISCELLANEOUS ASSESSMENTS.

May 1, 1892, to December 31, 1892.

Uncollected May 1, 1892.....\$ 783 90

INCREASE.		DECREASE.	
May, 1892.....	\$ 1,207 17	May, 1892.....	\$ 41 67
June, 1892.....	1,864 73	June, 1892.....	.....
July, 1892.....	7,520 01	July, 1892.....	.....
August, 1892. . .	2,985 31	August, 1892.....	.....
September, 1892..	2,096 89	September, 1892....	20 92
October, 1892....	1,505 75	October, 1892.....	26 99
November, 1892..	1,822 56	November, 1892.....	.....
December, 1892...	1,158 58	December, 1892. . .	50 00
Total.....	\$20,151 00	Total.....	\$139 58

Increase.....\$20,151 00

Decrease.....139 58

Net Increase .....20,011 42

Total.....\$20,795 32

## SIXTH DISTRICT.

As reported by Jos. HARDACRE, Superintendent.

Amount of water assessment on books, January 1, 1892.....\$185,717 16

INCREASE.		DECREASE.	
January, 1892.....	\$1,847 82	January, 1892.....	\$5,202 18
February, 1892....	559 88	February, 1892....	1,498 34
March, 1892.....	147 14	March, 1892.....	1,965 21
April, 1892.....	168 00	April, 1892.....	667 86
Total.....	\$2,022 84	Total.....	\$9,273 59

Decrease...\$9,273 59

Increase.....2,022 84

Net decrease...7,250 75

Total amount assessed from May 1, 1891, to April 30, 1892.....\$178,466 41



Amount on book from May 1, 1892, to April 30, 1893..... **\$215,117 66**

INCREASE.		DECREASE.	
May, 1892.....	\$3,797 29	May, 1892.....	\$3,640 78
June, 1892.....	4,170 67	June, 1892.....	1,062 79
July, 1892.....	3,867 65	July, 1892.....	707 53
August, 1892.....	1,647 38	August, 1892.....	749 39
September, 1892...	2,576 54	September, 1892...	1,055 96
October, 1892.....	2,011 36	October, 1892.....	4,684 13
November, 1892....	529 62	November, 1892...	2,302 81
December, 1892....	1,590 87	December, 1892....	1,819 78
Total.....	\$20,191 38	Total.....	\$16,023 17

Increase..... **\$20,191 38**

Decrease..... **16,023 17**

Net increase ..... **14,168 21**

Total amount on books, December 31, 1892..... **\$209,285 87**

NOTE.—The above decreases include \$6,961.02 rebated on churches, schools and City property, and \$787.75 on Washington Heights property, by ordinance November 14, 1892.

### SEVENTH DISTRICT.

As reported by W. C. LAWSON, Superintendent.

Amount of water assessment on books January 1, 1892..... **\$158,270 08**

INCREASE.		DECREASE.	
January, 1892 .....	\$ 803 78	January, 1892.....	\$2,865 40
February, 1892 .....	639 39	February, 1892 .....	3,159 87
March, 1892.....	982 55	March, 1892 .....	997 87
April, 1892 .....	1,295 88	April, 1892 .....	880 87
Total .....	\$3,721 60	Total.....	\$7,903 51

Decrease ..... **\$7,903 51**

Increase ..... **3,721 60**

Net decrease ..... **4,181 91**

Total amount assessed from May 1, 1891, to April 30, 1892 ..... **\$154,088 17**

Amount on books from May 1, 1892, to April 30, 1893 ..... **\$188,425 37**

INCREASE.		DECREASE.	
May, 1892 .. .....	\$2,677 96	May, 1892.....	\$2,707 23
June, 1892 .. .....	4,810 20	June, 1892 .. .....	1,908 38
July, 1892 .. .....	3,650 53	July, 1892.....	850 32
August, 1892 .. .....	3,029 74	August, 1892 .. .....	1,884 29
September, 1892...	3,714 41	September, 1892...	842 64
October, 1892.....	3,701 64	October, 1892 .....	565 37
November, 1892....	2,426 31	November, 1892...	715 31
December, 1892....	4,494 75	December, 1892....	1,342 47
Total .....	\$23,505 54	Total.....	\$10,316 01

Increase ..... **\$23,505 54**

Decrease ..... **10,316 01**

Net increase..... **18,189 53**

Total assessment on books from May 1, 1892, to December 31, 1892..... **\$201,614 90**

## SUMMARY, EXCLUSIVE OF METERS.

First to Fifth Districts, from May 1 to December 31, 1892.....	\$1,550,405 85
Sixth District, from May 1 to December 31, 1892.....	219,285 75
Seventh District, from May 1 to December 31, 1892.....	201,614 00
Total to December 31, 1892....	<u>\$1,971,306 50</u>

Amount rebated by ordinance of November 21, 1884, on charitable and educational institutions and all places of public worship ; also by ordinance of July 30, 1885, on public schools and municipal property ; also on Washington Heights property by ordinance, November 14, 1892, all being included in the general decrease checks in the foregoing report.

Religious, charitable and educational institutions.....	\$23,897 76
Municipal and public schools.....	28,035 76
By special order of Council, December 12, 1892.....	16 00
Washington Heights, by ordinance, November 14, 1892.....	787 75
Total.....	<u>\$52,737 27</u>

WATER SERVICE LET AND PUT IN BY CONTRACT DURING THE YEAR ENDING DECEMBER 31, 1892, SHOWING THE NUMBER OF PIPES, TOTAL AMOUNT OF CONTRACT, AND THE ASSESSOR'S COST ON EACH STREET.

STREET.	FROM	TO	Number of Pipes.	Amount of Contract.	Assessor's Cost.
Armitage avenue.....	Kedzie avenue.....	C. M. & St. P. Ry.....	171	\$2,407 68	\$ 286 50
Albany avenue.....	Twelfth.....	Douglas Park boulevard.....	28	On Ac. 343 40	42 00
Aberdeen.....	North Clark.....	Evanston avenue.....	68	818 40	99 00
Armour avenue.....	Twenty-second.....	Forty-fifth.....	65	1,163 50	97 60
Armour avenue.....	Gordon.....	Forty-seventh.....	32	447 68	48 00
Armour avenue.....	Forty-seventh.....	Fifty-fifth.....	101	1,418 04	151 50
Armitage avenue.....	Kedzie avenue.....	Columbia avenue.....	182	2,746 32	273 00
Almond.....	Ashland.....	Taylor.....	5	69 00	7 50
Augusta.....	California avenue.....	Grand avenue.....		No Main.	
Buffalo avenue.....	Eighty-third.....	Ninety-second.....	140	2,279 20	210 00
Bremen.....	Robey.....	Western avenue.....	54	786 02	81 00
Berlin.....	Hoyle avenue.....	Western avenue.....	57	799 71	85 50
Bonney avenue.....	Ogden avenue.....	Douglas Park boulevard.....		Stayed.	
Byron.....	California avenue.....	Humboldt boulevard.....	14	207 76	21 00
Bosworth avenue.....	Roscoe.....	Grace.....	88	1,293 72	182 00
Butler.....	Thirty first.....	Thirty third.....	6	88 44	9 00
Belmont avenue.....	River.....	Milwaukee avenue.....	282	4,695 30	423 00
Butler.....	Thirty-fifth.....	Thirty-ninth.....	61	845 46	91 60
Best avenue.....	Wrightwood avenue.....	Diversey avenue.....	34	438 94	51 00
Breslau.....	Hamburg.....	Ems.....	7	105 21	10 50
California avenue.....	Belmont avenue.....	Humboldt boulevard.....	187	2,681 58	280 80
California avenue.....	Milwaukee avenue.....	Humboldt boulevard.....	54	763 30	81 00
Calumet avenue.....	Egan avenue.....	Forty-seventh.....	262	3,584 16	393 00
Congress.....	Albany avenue.....	Kedzie avenue.....	31	487 24	48 50
Churchill.....	Robey.....	Leavitt.....	19	268 28	28 60
Coblentz.....	Robey.....	Leavitt.....	20	289 80	30 00
Champlain avenue.....	Forty-seventh.....	Fiftieth.....	97	1,845 39	145 50
Calumet avenue.....	Forty-seventh.....	Fifty-first.....	175	2,378 25	262 50
Columbia.....	Milwaukee avenue.....	Leavitt.....	5	85 75	7 50
Congress.....	Kedzie avenue.....	Homan avenue.....	88	569 24	67 00
Clarence avenue.....	Nellie avenue.....	Grace.....	18	244 26	27 00
Central Park avenue.....	Chicago avenue.....	Central Park boulevard.....		No main.	
Calumet avenue.....	Fifty first.....	Fifty fifth.....		No main.	
Center avenue.....	Fifty first.....	Fifty fifth.....	183	1,726 84	199 60
Carroll avenue.....	Kedzie avenue.....	950 feet west.....	50	751 50	75 50

Drexel avenue.....	Fifty-first	Fifty-fifth	133	2,032 24	199 50
Douglas avenue.....	Archer avenue.	Western avenue.	61	844 24	91 50
Douglas avenue.....	Western avenue	California avenue.	102	1,198 30	153 00
Drexel avenue.....	Sixtieth	Sixty-third	48	877 92	72 00
Dearborn.....	Forty-third	Forty-seventh	47	670 89	70 50
Dearborn.....	Forty-seventh.	Fifty-fifth.	88	1,248 72	132 00
Erie avenue.....	Eighty-seventh.	Ninety-first.	38	560 50	57 00
Ernst.....	Clark	Southport avenue.	38	514 52	57 00
Evanson avenue.....	Bryn Mawr.	Thorndale avenue.	60	1,405 20	90 00
Evans avenue.....	Forty-seventh.	Forty-ninth	48	686 00	72 00
Englewood avenue	Halsted	Wallace.....	29	350 00	32 50
Emerald avenue.....	Egan.....	Forty-third.	35	388 60	52 50
Fifty-third.....	Cottage Grove avenue.	Drexel avenue.	13	189 15	19 50
Fulton.....	Homan avenue.	Central Park avenue.	72	1,345 68	108 00
Frankfort.....	Hoyne avenue.	Leavitt	16	212 48	24 00
Fifty-first.....	Wallace.	Ashland avenue.	225	3,192 75	337 50
Forty-seventh.....	State.....	Cottage Grove avenue	141	2,071 29	211 50
Fairfield avenue.	North avenue.....	Hirsch.....	48	680 16	72 00
Flournoy.....	Sacramento avenue.	Francisco	21	305 97	31 50
Farrell.....	Archer avenue.	Thirty-first.	25	874 25	37 50
Fifty-ninth.....	Halsted.	Center avenue.	100	1,539 00	150 00
Fiftieth.....	Cottage Grove avenue	Drexel avenue	7	103 32	10 50
Ferdinand.....	Ashland avenue.	Paulina.	12	173 40	18 00
Fish.....	Sixteenth	Eighteenth.	All in.		
Fifty-third.....	State.....	School.....		No Main.	
Forty-fourth.....	Cottage Grove avenue	Drexel boulevard.	6	107 10	9 00
Forty-fifth.....	State.....	Wentworth avenue.	8	42 36	4 50
Fillmore.....	California avenue	Kedzie avenue.	51	605 37	76 50
Fifty-fourth court.	Halsted	Morgan	All in.		
Forty-second place	Vincennes avenue	St. Lawrence avenue.	8	40 62	4 50
Forty-seventh.....	Cottage Grove avenue.	Cottel avenue.	17	235 11	25 50
Forty-first.....	State.....	Grand boulevard	17	243 95	25 50
Flournoy.....	Francisco	Albany avenue.	25	364 25	37 50
Fifty-fifth.....	Grand boulevard	Drexel boulevard.	38	On lot 510 88	49 50
Fifty-ninth.....	State.....	Ashland avenue.	188	2,581 24	292 00
Forty-eighth.....	Cottage Grove avenue.	Drexel boulevard.	2	42 00	60
Gehrke avenue.....	North Clark	Sheffield avenue.	20	285 60	30 00
Gross avenue.....	Loomis.....	Forty-seventh.	93	1,354 24	138 00
Greenwood.....	Western avenue.	Station.....	9	110 43	13 50
Graceland avenue.....	Alexander	Lincoln avenue.	22	456 06	33 00
Grand avenue.....	Clark	Evanson avenue.	85	1,181 50	127 50
Grand avenue.....	Clark.	Ridge avenue.....	32	463 08	48 00

WATER SERVICE LET AND PUT IN BY CONTRACT DURING THE YEAR ENDING DECEMBER 31, 1892, SHOWING THE NUMBER OF PIPES, TOTAL AMOUNT OF CONTRACT, AND THE ASSESSOR'S COST ON EACH STREET.—CONTINUED.

STREET.	FROM	TO	Number of Pipes.	Amount of Contract.	Assessor's Cost.
Gordon	Union	Stewart avenue	20	\$ 273 60	\$ 30 00
Grace avenue	Sixty-third	Sixty-fifth	24	211 20	38 00
George	Halsted	Southport avenue	89	1,208 24	182 00
Garfield avenue	Lawrence avenue	Clay	42	591 36	68 00
Green	Fifty-sixth	Fifty-seventh	15	208 65	22 50
Hickory	Main	Cologne	15	255 15	22 50
Humboldt Park boulevard	North avenue	Logan Square	152	1,982 08	228 00
Hoynes avenue	Belmont avenue	Clybourn avenue	20	386 20	38 50
Humboldt Park boulevard	Logan Square	Western avenue	89	1,148 10	138 50
Homer	Robey	Hoynes avenue	15	183 75	22 50
Hall	Diversey avenue	Oakdale avenue	16	212 64	24 00
Hazel	Buena avenue	Sulzer	37	465 46	55 50
Harvard	California avenue	Kedzie avenue	66	Not finished.	.....
Hastings	Wood	Leavitt	52	780 00	78 00
Harrison	California avenue	Kedzie avenue	96	1,478 40	144 00
Homan avenue	Madison	Harrison	14	On ac. 187 84	21 00
Hoffman avenue	Milwaukee avenue	Diversey avenue	32	570 88	48 00
Homan avenue	Sixteenth	Twenty-second	.....	No main.	.....
Hoynes avenue	Asylum place	Fullerton avenue	.....	.....	.....
Ingleside avenue	Fifty-fifth	Fifty-ninth	Not fin. 30	.....	.....
Indiana avenue	Twelfth	Pumping Works	174	2,308 98	261 00
Illinois	Forty-fifth	Fifty-first	.....	Canceled.	.....
Joseph	1,500 feet East of	St. Clair	44	804 60	66 00
Jane	Archer avenue	Hickory	17	285 45	25 50
Janzen avenue	Hoynes avenue	Leavitt	10	158 40	15 00
Kenwood avenue	Roscoe	Grace	20	295 40	30 00
Lester	Vincennes avenue	Grand boulevard	97	1,464 70	145 50
Lill	Robey	Asylum place	28	891 16	42 00
Lowe avenue	Western avenue	Station	.....	Stayed.	.....
Madison	Twenty-sixth	Egan avenue	88	549 86	57 00
Madison	C, B. & Q. R. R.	125 feet south of Twenty-second	208	2,943 50	304 50
Madison	Fullerton avenue	Frederick	14	187 32	21 00
Madison	California avenue	Francisco	8	27 60	4 50
Madison	Addison avenue	Sulzer	10	135 40	15 00
Madison	Sixty-third	Sixty-fifth	820	4,345 60	480 00
Madison	.....	.....	22	315 48	38 00



WATER SERVICE LET AND PUT IN BY CONTRACT DURING THE YEAR ENDING DECEMBER 31, 1892, SHOWING THE NUMBER OF PIPES, TOTAL AMOUNT OF CONTRACT, AND THE ASSESSOR'S COST ON EACH STREET.—CONTINUED.

STREET.	FROM	TO	Number of Pipes.	Amount of Contract.	Assessor's Cost.
Superior avenue.....	Eighty-seventh.	Eighty-ninth.	3	\$ 32 52	\$ 4 50
School.....	Clark.	Halsted.	5	74 70	17 50
Star.....	Robertson avenue.	Southern Terminal.	8	84 48	12 00
Southport avenue.....	Belmont avenue.	Graceland avenue.	186	3,197 34	279 00
South Park avenue.....	Fifty-fifth.	Sixtieth.	103	1,798 88	154 50
Sixty-fifth court.....	Wright.	Stewart avenue.	9	101 79	13 50
Sixty-first.....	Halsted.	Centre avenue.	Not fin.	697 84	78 00
Sixty-third.....	Halsted.	Centre avenue.	52	785 72	78 00
State.....	Sixty-fourth.	Sixty-eighth.	75	1,431 50	112 50
Sixty-fifth.....	Wallace.	Halsted.	33	560 34	49 50
Sullivan court.....	Lyman.	Thirty-first.	7	84 35	10 50
Sixty-second.....	Stony Island avenue.	Illinois Central R. R.	27	328 32	40 50
Southport avenue.....	Grand avenue.	144.32 feet north of Ernst avenue.	41	528 90	61 50
Sixty-third court.....	Sherman.	Winter.	18	200 33	19 50
School.....	Evanston avenue.	Halsted.	18	232 20	27 00
Sangamon.....	Garfield boulevard.	Fifty-seventh.	49	679 63	73 50
Sawyer avenue.....	Twelfth.	Douglas Park avenue.	10	141 80	15 00
Sixtieth.....	Halsted.	Winter.	33	485 76	49 50
Sheridan.....	North avenue.	Bloomington road.	194	8,067 14	291 00
Stony Island avenue.....	Fifty-sixth.	Seventy-ninth.	44	687 28	66 00
Twenty-sixth.....	Western avenue.	Lawndale avenue.	29	431 81	43 50
Thirty-sixth.....	Halsted.	Laurel.	5	105 00	7 00
Twenty-first.....	Archer avenue.	Stewart avenue.	9	176 49	13 50
Twenty-ninth.....	Clark.	Purple.	38	514 52	57 00
Thomes avenue.....	Clark.	Southport avenue.	12	185 76	18 00
Thirty second.....	Portland avenue.	Emerald avenue.	40	607 60	60 00
Thirty-eighth court.....	Halsted.	Laurel.	20	269 40	30 00
Thirty-fourth court.....	Halsted.	Laurel.	125	1,893 75	187 50
Turner avenue (let Aug. 22, 1891).....	Douglas Park boulevard.	Ogden avenue.	6	84 36	9 00
Union place.....	Twenty-second.	Union.	4	54 20	6 00
Upton.....	Western avenue.	Milwaukee avenue.	41	520 29	61 50
Vine.....	Sixty-third.	Sixty-seventh.	5	82 50	8 00
Western avenue.....	Vedder.	Rees.	100	2,805 72	150 00
Western avenue.....	Chicago avenue.	North avenue.	92	1,207 73	188 00
Western avenue.....	Fullerton avenue.	Belmont avenue.			

Washtenaw avenue.....	Lake.....	Kinzle.....	17	245 65	25 50
Washington avenue.....	Ninety-first.....	Ninety-fifth.....	97	1,385 16	145 00
Washtenaw avenue.....	Sixteenth.....	Twenty-second.....	47	612 41	70 50
Wabash avenue.....	Twenty-second.....	Fifty-fifth.....	266	4,428 90	399 00
Weed.....	Clybourn avenue.....	Hawthorne avenue.....	21	884 72	31 50
Wendell avenue.....	Eighty-second.....	Eighty third.....	32	478 08	48 00
Wilson (Forty-fourth).....	Union.....	Stewart avenue.....	16	226 56	24 00
Winter.....	Sixty-ninth.....	Seventy-first.....	32	439 44	48 00
Wrightwood avenue.....	C. & E. R. R.....	Southport avenue.....	52	All in.	..
Warren avenue.....	Garfield Park.....	Crawford avenue.....	56	912 60	78 00
Washington.....	Hamlin avenue.....	West Fortieth.....	56	814 80	84 00
Total work done .....				\$147,095 61	\$ 14,744 15
Estimate for streets not finished.....				13,500 00	
Grand Total.....				\$160,595 61	



LIST OF STREETS ORDERED FOR IMPROVEMENT, WITH ESTIMATES,  
NUMBER AND COST OF PIPES RETURNED TO SUPERINTENDENT OF  
SPECIAL ASSESSMENTS FROM JANUARY 1, TO DECEMBER 31, 1902.

STREET.	FROM	TO	No. of Pipes.	Amount.
Avers avenue.....	Kinzie.....	Chicago avenue.....	127	\$ 2,667 00
Ashland.....	Ashland avenue.....	Taylor.....	5	110 00
Avenue de la cote.....	Fairmont.....	Fifty-second.....	8	176 00
Ashland avenue.....	Twenty-second.....	Archer avenue.....	33	683 00
Avenue de la cote.....	California avenue.....	Grand avenue.....	27	567 00
Ashland avenue.....	Fifty-ninth.....	Sixty-third.....	172	4,300 00
Aberdeen.....	Fifty-first.....	Fifty-seventh.....	183	3,843 00
Ashland avenue.....	N. Fifty-ninth.....	Claremont avenue.....	118	2,478 00
Albany avenue.....	Kinzie.....	Ohio.....	43	903 00
Albany avenue.....	Ogden avenue.....	Nineteenth.....	35	735 00
Albany avenue.....	Twenty-second.....	Twenty-sixth.....	109	2,289 00
Avondale avenue.....	Belmont avenue.....	California avenue.....	93	1,953 00
Archer avenue.....	Western avenue.....	Thirty-ninth.....	71	1,491 00
Ambrise.....	Western avenue.....	Oakley avenue.....	38	760 00
Aberdeen.....	Fifty-ninth.....	Sixty-third.....	64	1,280 00
Ashland avenue.....	Lawrence avenue.....	Webster avenue.....	108	2,376 00
Addison.....	Sixty-ninth.....	Seventy-first.....	76	1,520 00
Albany avenue.....	Kinzie.....	Chicago avenue.....	123	2,460 00
Berteau avenue.....	Clark.....	Ashland avenue.....	8	184 00
Butler.....	Thirty-first.....	Thirty-third.....	10	220 00
Boulevard place.....	Vincennes avenue.....	Grand boulevard.....	10	210 00
Belmont avenue.....	River.....	Milwaukee avenue.....	480	10,080 00
Butler.....	Thirty-fifth.....	Thirty-ninth.....	81	1,722 00
Bonney avenue.....	Twenty-sixth.....	Thirty-first.....	169	3,549 00
Best avenue.....	Wrightwood avenue.....	Diversey avenue.....	64	1,344 00
Bloom.....	Thirty-fourth.....	Thirty-eighth.....	35	735 00
Balmoral.....	Ravenswood Park.....	Clark.....	44	924 00
Blucher.....	Wellington avenue.....	North avenue.....	6	132 00
Bond avenue.....	Seventy-fifth.....	Seventy-ninth.....	231	4,851 00
Bi-shop.....	Forty-seventh.....	Forty-ninth.....	14	280 00
Blanchard avenue.....	Thirty-ninth.....	Thirty-fifth.....	109	2,180 00
Breslau avenue.....	Hamburg.....	Ems.....	9	189 00
Boulevard place.....	St. Lawrence avenue.....	Vincennes avenue.....	28	560 00
Ballou avenue.....	North avenue.....	Armitage avenue.....	74	1,480 00
Berwin.....	Clark.....	Southport avenue.....	51	1,020 00
Balmoral avenue.....	Clark.....	Southport avenue.....	49	980 00
Cornelia.....	Lincoln avenue.....	Southport avenue.....	22	462 00
Chicago avenue.....	California.....	W. Fortieth.....	377	10,556 00
Central Park avenue.....	Chicago avenue.....	Central Park blvd.....	112	2,686 00
Colorado avenue.....	Douglas Park blvd.....	Crawford avenue.....	77	1,617 00
Campbell avenue.....	Twelfth.....	Viaduct.....	41	861 00
Clifton.....	Kellogg.....	Fortieth.....	91	1,911 00
Center avenue.....	Fifty-first.....	Fifty-fifth.....	164	3,444 00
Carroll avenue.....	Kedzie avenue.....	950 feet west.....	56	1,176 00
Cottage Grove avenue.....	Seventy-first.....	Ninety-fifth.....	1,049	26,225 00
Cologne.....	Fuller.....	Quarry.....	50	1,050 00
Clark.....	Ninety-first.....	Ninety-fifth.....	110	2,310 00
Cloud avenue.....	Ninety-first.....	C. & W. I. R. R.....	138	2,898 00
Central Park avenue.....	Twenty-sixth.....	Thirty-second.....	287	4,977 00
Central Park avenue.....	Chicago avenue.....	North avenue.....	270	5,670 00
Claremont avenue.....	E. Ravenswood Park.....	Clark.....	74	1,554 00
Clarkson avenue.....	Palmer square.....	Bloomington road.....	50	1,050 00
Carpenter.....	Fifty-first.....	Fifty-fourth.....	83	1,743 00
Clifton Park avenue.....	Ogden avenue.....	Douglas avenue.....	100	2,100 00

## STREETS ORDERED FOR IMPROVEMENT—CONTINUED.

STREET.	FROM	TO	No. of Pipes.	Amount.
Charlton	Grand avenue.	Devon avenue	44	\$ 880 00
Centre avenue	Forty-seventh	Fifty-first	95	1,900 00
Centre avenue	Sixty-third	Seventy-fifth	488	8,760 00
Centre avenue	Garfield boulevard.	Fifty-seventh	55	1,100 00
Cortland	Leavitt	Oakley avenue.	6	182 00
Clifton avenue	Wellington avenue.	Roscoe	23	460 00
Cedar	Wentworth avenue.	P., Ft. W. & C. Ry.	28	560 00
Cologne	Main	Fuller	56	1,120 00
California avenue.	Thirty-ninth	Ill. & Mich. Canal	166	3,320 00
Carpenter	Fifty-ninth	Sixty-third	40	800 00
Clark	Lawrence avenue	Webster avenue	76	1,520 00
Cottage Grove avenue.	Fifty-ninth	Seventy-first	377	8,671 00
Crawford avenue	Kinzie	Madison	91	1,820 00
Commercial avenue.	Ninety-second	L. S. & M. S. Ry.	25	550 00
Coblentz	Leavitt	Western avenue	19	380 00
Coulter	Hoyne avenue	Western avenue	46	1,380 00
Centre avenue.	Fifty-seventh	Sixty-third	199	3,980 00
Central Park avenue	North avenue	Armitage avenue.	109	2,118 00
Drake avenue	Ohio	Chicago avenue	80	1,680 00
Dreyer	Fifty-ninth	Sixty-first	76	1,596 00
Dauphin avenue.	Eighty-seventh	Ninety-third	124	2,480 00
Division	Kedzie avenue	Robinson avenue.	887	22,175 00
Diversey	River	Kedzie avenue.	266	5,585 00
Duncan Park	Princeton avenue	Stewart avenue	12	252 00
Dickson	Waubansia avenue.	Bloomingdale road	19	380 00
Dexter avenue	Union avenue	Stewart avenue	16	320 00
Ernst	Clark	Southport avenue	74	1,554 00
Evanston avenue.	Bryn Maur avenue.	Thorndale avenue.	141	3,807 00
Evans avenue	Forty-seventh	Forty-ninth	65	1,365 00
Evarts avenue.	Fifty-ninth	Sixty-first	72	1,512 00
Englewood avenue.	Halsted	Wallace	78	1,638 00
Elston avenue.	Milwaukee avenue.	Belmont avenue	51	1,071 00
Eighty-seventh	I. C. R. R.	South Park avenue.	211	4,431 00
Erie	Western avenue	Campbell avenue.	29	1,740 00
Ewing avenue.	Ninety-second	One Hundredth	256	6,144 00
Edson avenue.	Diversey	Lincoln	9	Notify.
Euclid avenue.	Grand avenue	Devon avenue	44	880 00
Evanston avenue	Grand avenue	Devon avenue	44	1,100 00
Edgewood avenue.	Milwaukee avenue.	Humboldt boulevard	107	2,247 00
Eighty-seventh	S. Ch. Br. I. C. R. R.	L. S. & M. S. Ry.	54	1,296 00
Emerald avenue.	Sixty-fifth	Sixty-sixth	9	182 00
Erie avenue.	Ninety-first	S. Chicago avenue	59	1,180 00
Fifty-third	State	School	19	399 00
Fifty-sixth	Blanchard	Hart	8	176 00
Forty-fifth	State	Wentworth avenue.	20	420 00
Forty-eighth	Ashland avenue	Robey	49	1,029 00
Fillmore	California avenue	Kedzie avenue	62	1,302 00
Fifty fourth court.	Halsted	Morgan	58	1,160 00
Fourteenth	Wood	Irving place	91	1,911 00
W. Forty-second	Twenty-eighth	C., B. & Q. R. R.	53	1,118 00
W. Forty-first	Twenty-eighth	C., B. & Q. R. R.	57	1,368 00
W. Fortieth	Twenty-fourth	Twenty-eighth	120	2,520 00
W. Fortieth place	Twenty-sixth	Twenty-eighth	37	777 00
W. Forty-first	Twenty-sixth	Twenty-eighth	37	777 00
W. Forty-second	Twenty-sixth	Twenty-eighth	36	756 00
Fairmount place.	Ogden avenue	C., B. & Q. R. R.	38	912 00
Flournoy	Francisco	Albany avenue.	51	1,071 00

## STREETS ORDERED FOR IMPROVEMENT—CONTINUED.

STREET.	FROM	TO	No. of Pipes.	Amount.
Forty first .....	Lake avenue .....	Michigan terrace .....	14	\$ 368 00
Forty fifth .....	Grand boulevard .....	Drexel boulevard .....	60	1,260 00
Fifty first court .....	Vincennes avenue .....	Cottage Grove avenue .....	102	2,142 00
Forty fourth .....	Lake avenue .....	Woodlawn avenue .....	36	756 00
Fifty ninth .....	State .....	Ashland avenue .....	219	4,599 00
Fifty third .....	Halsted .....	Center avenue .....	68	1,428 00
Fifty fourth .....	Halsted .....	Center avenue .....	12	252 00
Forty fourth .....	Westworth avenue .....	State .....	12	264 00
Forrest avenue .....	Fullerton avenue .....	Elston avenue .....	65	1,365 00
North Fifty ninth .....	E. Ravenswood park .....	North Clark .....	79	1,659 00
Frankfort .....	Leavitt .....	Western avenue .....	26	546 00
Forty second .....	Wallace .....	School .....	35	735 00
Fifty third court .....	Halsted .....	Center avenue .....	29	609 00
Fraser avenue .....	Grand avenue .....	Devon avenue .....	44	880 00
Forty fifth .....	Drexel avenue .....	Woodlawn avenue .....	25	525 00
Forty third .....	Ashland avenue .....	Goodspeed avenue .....	55	1,100 00
Flournoy .....	California avenue .....	Washtenaw avenue .....	39	819 00
Fleetwood .....	Blackhawk .....	North avenue .....	35	735 00
Forty sixth .....	Union avenue .....	Stewart avenue .....	29	580 00
Forty ninth .....	Cottage Grove avenue .....	Grand boulevard .....	20	400 00
North ½ Fifty-first .....	Grand boulevard .....	Drexel boulevard .....	103	2,060 00
Fifty first .....	Ashland avenue .....	Wood .....	38	760 00
Ferdinand .....	Armour avenue .....	Noble .....	34	612 00
Fifty second .....	Cottage Grove avenue .....	Drexel avenue .....	23	460 00
Fifty second .....	Halsted .....	Morgan .....	53	1,060 00
Fifty fourth court .....	Halsted .....	Morgan .....	58	1,160 00
Flournoy .....	Central Park avenue .....	Lawndale avenue .....	48	960 00
Forquer .....	Central Park avenue .....	Lawndale avenue .....	48	960 00
Fox .....	Thirty-first .....	Waterville .....	27	540 00
Fifty-ninth .....	Cottage Grove avenue .....	Stony Island avenue .....	60	1,200 00
Farragut .....	Clark .....	Southport avenue .....	52	1,040 00
North Fifty-ninth .....	Clark .....	Southport avenue .....	59	1,180 00
Gage court .....	Hart .....	Western avenue .....	17	357 00
Grand avenue .....	Clark .....	Evanston Avenue .....	183	4,026 00
Grand avenue .....	Clark .....	Ridge avenue .....	69	1,449 00
Gordon .....	Union avenue .....	Stewart avenue .....	103	2,163 00
Green .....	Fifty-fifth .....	Fifty-sixth .....	21	441 00
George .....	Halsted .....	Southport avenue .....	195	4,095 00
Garfield avenue .....	Lawrence .....	Clay .....	76	1,596 00
Grand avenue .....	California avenue .....	Armitage avenue .....	402	8,442 00
Grace avenue .....	Ninety-first .....	Ninety-fifth .....	140	2,940 00
Garvin avenue .....	Ninety-first .....	Ninety-fifth .....	140	2,940 00
Green .....	Fifty-sixth .....	Fifty-seventh .....	25	500 00
Graceland avenue .....	Lincoln avenue .....	Milwaukee avenue .....	1,035	24,840 00
Grant avenue .....	Thirty-ninth .....	Thirty fifth .....	82	1,640 00
Green .....	Fifty-ninth .....	Sixty-third .....	90	1,800 00
Grove place .....	Sixty-fourth .....	Sixty-fifth .....	14	280 00
Grenshaw .....	Kedzie avenue .....	Spaulding avenue .....	26	520 00
Grenshaw .....	Spaulding avenue .....	Homan avenue .....	37	740 00
Grace .....	Lincoln avenue .....	Clark .....	133	2,660 00
Gunn .....	Halsted .....	Winter .....	22	396 00
Homer avenue .....	Robey .....	Hoyne avenue .....	15	315 00
Hamlin avenue .....	Twenty-sixth .....	Twenty-seventh .....	48	1,008 00
Hall .....	Diversey .....	Oakdale avenue .....	17	357 00
Homan avenue .....	Central Park boulev'd .....	Washington boulev'd .....	54	1,134 00
Harvard avenue .....	California avenue .....	Kedzie avenue .....	95	1,995 00
Hastings .....	Wood .....	Leavitt .....	58	1,218 00

## STREETS ORDERED FOR IMPROVEMENT—CONTINUED.

STREET.	FROM	TO	No. of Pipes.	Amount.
Harrison.....	California avenue.....	Kedzie avenue.....	133	\$ 2,793 00
Harrison.....	Kedzie avenue.....	Crawford avenue.....	307	5,040 00
Huron.....	Leavitt.....	Western avenue.....	23	1,495 00
Homan avenue.....	Madison.....	Harrison.....	58	1,218 00
Hamlin avenue.....	Ohio.....	Chicago avenue.....	51	3,315 00
Hoffman avenue.....	Milwaukee avenue.....	Diversey avenue.....	51	1,071 00
Harvard.....	Sixty-ninth.....	Seventieth.....	21	441 00
Homer.....	Robey.....	Oakley avenue.....	20	420 00
Hamlin avenue.....	Ogden.....	Thirty-first.....	150	8,150 00
Hamburg.....	Robey.....	Western avenue.....	58	1,218 00
Hoyne avenue.....	Belmont avenue.....	Roscoe.....	21	441 00
Hirsch.....	Leavitt.....	California avenue.....	32	672 00
Homan avenue.....	Sixteenth.....	Twenty second.....	117	2,457 00
Hull.....	Twelfth.....	Fillmore.....	33	693 00
Homer.....	Western avenue.....	Wabansia avenue.....	28	560 00
Halsted.....	Sixty-ninth.....	Seventy-ninth.....	425	9,350 00
Houston avenue.....	Eighty-seventh.....	Ninety-third.....	134	2,948 00
Hoyne avenue.....	Archer avenue.....	Thirty-fourth.....	24	480 00
Haven.....	Shields avenue.....	Stewart avenue.....	8	144 00
Hancock.....	North avenue.....	Armitage avenue.....	65	1,300 00
Illinois.....	St. Clair.....	1,500 feet east.....	32	800 00
Indiana.....	Fifty-first.....	Fifty-fifth.....	174	4,350 00
Irving avenue.....	Thirteenth.....	Fourteenth.....	33	798 00
Jan Huss avenue.....	Kinzie.....	Chicago avenue.....	132	3,086 00
Johnson avenue.....	Twenty-seventh.....	Twenty-eighth.....	20	380 00
Juniata avenue.....	Ninety-first.....	Ninety-fifth.....	149	3,129 00
Jeffery avenue.....	Ninety-first.....	Ninety-fifth.....	144	3,024 00
James avenue.....	Laurel.....	Benson.....	19	380 00
Joseph.....	233 feet east of Grant avenue	Pearson.....	87	1,740 00
Kedzie avenue.....	North avenue.....	Palmer square.....	145	3,915 00
Kedzie avenue.....	Twenty-second.....	Twenty-sixth.....	158	3,318 00
Kinney avenue.....	Seventy-first.....	Seventy-third.....	94	1,974 00
Kedzie avenue.....	Twenty-sixth.....	Chicago river.....	206	4,326 00
Kinzie.....	May.....	Paulina.....	36	756 00
Kinzie.....	Paulina.....	Oakley avenue.....	38	684 00
Kimball avenue.....	North avenue.....	Armitage avenue.....	88	1,760 00
Lime.....	Twenty-seventh.....	C. & A. R. R.....	17	357 00
Lexington avenue.....	Midway plaisance.....	Sixty-first.....	32	768 00
Lawndale avenue.....	Ohio.....	Chicago avenue.....	73	2,190 00
Lawndale avenue.....	Thirty-first.....	Chicago river.....	79	1,659 00
Lawrence avenue.....	Sheffield avenue.....	Lake Michigan.....	37	777 00
Lunn court.....	Western avenue.....	Western terminus.....	18	273 00
Luella.....	Ninety-first.....	C. & W. I. R. R.....	130	2,730 00
Lubeck.....	Robey.....	Western avenue.....	60	1,155 00
Lawndale avenue.....	Twenty-second.....	C. B. & Q. R. R.....	6	132 00
La Salle.....	Garfield boulevard.....	Cloud court.....	50	1,000 00
Lawndale avenue.....	Ogden avenue.....	Twelfth.....	259	5,439 00
La Salle.....	Forty-seventh.....	Garfield boulevard.....	49	980 00
Langley avenue.....	Forty-ninth.....	Fifty-first.....	24	480 00
Lexington avenue.....	Central park avenue.....	Lawndale avenue.....	43	860 00
Lawndale avenue.....	Harrison.....	Taylor.....	54	1,080 00
Lincoln.....	Thirty-fifth.....	Thirty-ninth.....	65	1,300 00
Leggate.....	Thirty-eighth.....	Thirty-ninth.....	17	340 00
May.....	Fifty-fourth.....	Fifty-fifth.....	36	756 00
Monroe (West).....	West Fortieth.....	West Forty-sixth.....	288	6,048 00
Monticello avenue.....	Kinzie.....	Chicago avenue.....	158	3,792 00
Melrose.....	Robey.....	Racine avenue.....	250	5,250 00

## STREETS ORDERED FOR IMPROVEMENT—CONTINUED.

STREET.	FROM	TO	No. of Pipes.	Amount.
Morgan.....	Garfield boulevard	Fifty-seventh.....	67	\$1,407 00
Moffat.....	Western avenue	Rockwell.....	20	420 00
Musprat.....	Thirty-first.....	Thirty-fourth.....	71	1,491 00
Melrose.....	Western avenue.....	Robey.....	121	2,541 00
Myrtle.....	Birch.....	Taylor.....	10	210 00
Morgan.....	Sixty-third.....	Sixty-fifth.....	85	1,785 00
Michigan terrace.....	Fortieth.....	Forty-first.....	35	700 00
Minnehaha.....	Ninety-first.....	Ninety-second.....	48	1,008 00
Minnehaha.....	Ninety-third.....	C. & W. I. R. R.....	54	1,134 00
Myrtle.....	Milwaukee avenue.....	Diversey.....	74	1,480 00
Maplewood avenue.....	North avenue.....	Bloomingtondale road.....	28	560 00
Morgan.....	Fifty-seventh.....	Sixty third.....	119	2,499 00
Morgan.....	Fifty-first.....	Fifty-fourth.....	66	1,386 00
May.....	Fifty-first.....	Fifty-fourth.....	87	1,827 00
Mitchell avenue.....	North avenue.....	Bloomingtondale road.....	24	480 00
May.....	Wrightwood avenue.....	Diversey.....	31	620 00
Maple.....	Wright.....	Wallace.....	26	546 00
May.....	Seventy-third.....	Seventy-fifth.....	82	1,640 00
Milwaukee avenue.....	Kedzie avenue.....	Crawford avenue.....	473	9,460 00
May.....	Fifty-ninth.....	Sixty-third.....	73	1,460 00
Milwaukee avenue.....	Crawford avenue.....	Jefferson avenue.....	418	8,360 00
Moore.....	Wood.....	Douglas Park blvd.....	271	7,380 00
Mill.....	Ashland avenue.....	Paulina.....	9	180 00
Marshfield avenue.....	Thirty-fourth.....	Thirty-seventh.....	32	640 00
McAlpine.....	Thirty-fifth.....	Bross.....	105	2,100 00
North avenue.....	Tinkham avenue.....	Grand avenue.....	264	6,600 00
Noble avenue.....	Ashland avenue.....	Sheffield avenue.....	122	2,562 00
Ninety-first.....	Cottage Grove avenue.....	South Park avenue.....	194	4,074 00
Ninety-first.....	Juniata avenue.....	Jeffery avenue.....	91	1,280 00
Ninety-second.....	Juniata avenue.....	Jeffery avenue.....	23	483 00
Ninety-fifth.....	Juniata avenue.....	Jeffery avenue.....	192	4,032 00
Ninety-second place.....	Juniata avenue.....	Luella avenue.....	39	819 00
Nebraska.....	Bloomingtondale road.....	Palmer place.....	78	1,638 00
Ninety-fifth.....	Calumet river.....	Torrence avenue.....	158	4,181 00
Notre Dame avenue.....	One Hundredth.....	One Hundred and Fourth.....	148	8,996 00
Nornam avenue.....	North avenue.....	Bloomingtondale road.....	12	252 00
Ninety-second.....	Harbor avenue.....	Commercial avenue.....	176	2,552 00
Ninety-second.....	Commercial avenue.....	Lake Shore tracks.....	18	896 00
Noble.....	Ashland avenue.....	Wood.....	52	1,040 00
Ogden avenue.....	Millard avenue.....	Twenty-second.....	113	4,633 00
Oakley avenue.....	Blue Island avenue.....	Eighteenth.....	27	594 00
Ogden avenue.....	Twenty-second.....	Forty-second.....	129	3,225 00
Ohio.....	Homan avenue.....	Harding avenue.....	59	1,479 00
Ogden avenue.....	Forty-second.....	Forty-sixth.....	194	4,886 00
Oakdale avenue.....	Sheffield avenue.....	Racine avenue.....	45	945 00
Otto.....	Clark.....	Halsted.....	7	147 00
One Hundred and Nineteenth.....	Michigan avenue.....	Halsted.....	215	4,515 00
Oglesby avenue.....	Seventy-first.....	South Chicago avenue.....	687	13,740 00
Oglesby avenue.....	Sixty-ninth.....	Seventy-first.....	52	1,040 00
Oakley avenue.....	Thirty-sixth.....	Archer avenue.....	8	160 00
Polk.....	Campbell avenue.....	Kedzie avenue.....	95	1,995 00
Purple.....	Archer avenue.....	Twentieth.....	11	220 00
Peoria.....	Fifty-fifth.....	Fifty-seventh.....	56	1,176 00
Paulina.....	Belmont avenue.....	Roscoe.....	6	132 00
Paulina.....	Clybourn avenue.....	Wrightwood avenue.....	69	1,449 00
Parnell avenue.....	Thirty-first.....	Thirty-third.....	11	242 00
Princeton avenue.....	Root.....	Forty-seventh.....	75	1,575 00

## STREETS ORDERED FOR IMPROVEMENT—CONTINUED.

STREET.	FROM	TO	No. of Pipes.	Amount.
Perry	Diversey	Graceland	249	\$ 5,229 00
Paulina	Fifty-ninth	Sixty-first	74	1,554 00
Parnell avenue	Thirty-fifth	Thirty-seventh	25	525 00
Pearl	Kellogg	Fortieth	114	2,394 00
Parmalee	Hoyne avenue	Western avenue	43	903 00
Parnell avenue	Thirty-seventh	Thirty-ninth	22	462 00
Prudville	Stave	Milwaukee avenue	6	126 00
Palmer avenue	Seventy-first	Seventy-third	92	1,932 00
Pine	E. Ravenswood Park	Cork	85	1,785 00
Paulina	Blue Island avenue	The River		
Park avenue	Hamlin avenue	W. Fortieth	53	1,113 00
Pemberton	Sulzer	Evanston avenue	144	2,880 00
Perry	Graceland avenue	Belmont avenue	151	3,020 00
Peoria	Fifty-first	Fifty-fifth	63	1,260 00
Parnell avenue	Thirty-third	Thirty-fifth	62	1,302 00
Polk	Central Park avenue	Lawndale avenue	48	960 00
Roscoe	Clark	Halsted	57	1,197 00
Rockwell	Grand avenue	Chicago avenue	21	1,865 00
Ruble	Sixteenth	Eighteenth	10	210 00
Richmond	Humboldt Pk. blvd	Diversey	74	1,554 00
Rebecca	California avenue	Rockwell	51	1,071 00
Roscoe	Robey	Sheffield avenue	93	1,953 00
Rupp avenue	Ninety-first	C. & W. I. R. R.	38	2,898 00
Rasher	E. Ravenswood Park	Clark	50	1,050 00
Rebecca	Rockwell	Western avenue	55	1,155 00
Robey	Blue Island avenue	1,200 feet South	12	528 00
Ruble	Canalport avenue	Twenty-first	21	878 00
Rockwell	Chicago avenue	Division	52	1,040 00
Sixtieth	Halsted	Center avenue	30	630 00
Sixty-first	Halsted	Center avenue	95	1,995 00
Sixty-second	Halsted	Center avenue	33	693 00
Sixty-third	Halsted	Center avenue	136	2,856 00
Sixty-fifth	Wallace	Halsted	65	1,533 00
Sullivan court	Lyman	Thirty-first	7	140 00
Spaulding avenue	Ogden avenue	Twelfth	160	3,360 00
Southport avenue	Grand avenue	144.32 ft. N. of Krust ave.	42	882 00
Sixty-third court	Sherman	Winter	20	420 00
School	Evanston avenue	Halsted	48	1,008 00
Sangamon	Garfield boulevard	Fifty-seventh	28	588 00
Sixty-first	Wood	Ashland avenue	35	735 00
Sawyer avenue	Twelfth	Douglas Park blvd	51	1,071 00
State	Sixteenth	Twenty-sixth	20	600 00
Sixtieth	Halsted	Winter	19	399 00
Stearns	Halsted	Main	70	1,470 00
St. Louis avenue	Ogden avenue	Twenty-sixth	239	5,019 00
Sixty-first	Cottage Grove avenue	State	197	4,137 00
Sixty-third	State	Cottage Grove avenue	270	5,670 00
Southport avenue	144.32 feet north of Grand ave.	Northern Terminus	32	672 00
South Park avenue	Eighty-seventh	Ninety-first	16	336 00
South Normal P'kway	Wright	C., R. I. & P. Ry.	21	504 00
Summerdale avenue	E. Ravenswood Park	Clark	38	798 00
Sholto	Taylor	Eleventh	10	210 00
Stone	Division	Scott	8	176 00
Sacramento avenue	Division	Augusta	39	936 00
Seventy-first	Wallace	Halsted	8	176 00
Seventieth	I. C. main track	Stony Island avenue	25	400 00
Sherman	Wilson or Forty-fourth	Forty-sixth	21	441 00

## STREETS ORDERED FOR IMPROVEMENT—CONTINUED.

STREET.	FROM	TO	No. of Pipes.	Amount.
Seeley avenue.....	Fifty-third.....	Fifty-fourth.....	10	\$ 210 00
Sixty-third.....	Ashland avenue.....	Pittsfield.....	958	20,018 00
School.....	Lincoln.....	Wood.....	25	420 00
Sixty-seventh.....	Honore.....	Halsted.....	32	672 00
St. Louis avenue.....	Ogden avenue.....	Twelfth.....	155	3,255 00
Sangamon.....	Fifty-ninth.....	Sixty-third.....	78	1,580 00
Sheridan avenue.....	North avenue.....	Bloomington road.....	42	882 00
Sixty-third.....	Stewart avenue.....	Wallace.....	28	460 00
Seventeenth.....	Pan Handle R. R.....	Western avenue.....	32	640 00
Stony Island avenue.....	Fifty sixth.....	Seventy-ninth.....	670	21,968 00
South Chicago avenue.....	Stony Island avenue.....	Eighty-seventh.....	264	6,600 00
South Chicago avenue.....	Eighty-seventh.....	Ninety-second.....	319	7,975 00
Sixty-ninth.....	Woodlawn avenue.....	I. C. R. R.....	35	700 00
Seventieth.....	Addison.....	I. C. R. R.....	24	600 00
Seventy-first.....	Woodlawn avenue.....	I. C. R. R.....	14	280 00
Sixty-fourth.....	Woodlawn avenue.....	Greenwood avenue.....	22	440 00
South Chicago avenue.....	South Park avenue.....	Stony Island avenue.....	499	12,475 00
Sixty-fifth.....	State.....	Wentworth avenue.....	35	700 00
Sherman.....	Sixty-ninth.....	Seventy-first.....	64	1,290 00
Seventy-fifth.....	Vincennes avenue.....	Stewart avenue.....	35	700 00
Sixty-sixth court.....	Stewart avenue.....	Honore.....	17	340 00
Sixty-fifth.....	Stewart avenue.....	Honore.....	23	460 00
Sixtieth.....	State.....	South Park avenue.....	15	300 00
Seventieth court.....	St. Lawrence avenue.....	Eastern Terminus.....	19	380 00
Sixty-first.....	State.....	I. C. R. R.....	15	300 00
Summerdale avenue.....	Clark.....	Southport avenue.....	49	980 00
Southport avenue.....	N. Fifty-ninth.....	Balmoral avenue.....	88	760 00
Springer.....	Laurel.....	Waterville.....	18	360 00
Thirty-second.....	Portland avenue.....	Emerald avenue.....	15	330 00
Twenty-first.....	Archer avenue.....	Stewart avenue.....	32	672 00
Twentieth.....	Clark.....	Purple.....	21	441 00
Thoms avenue.....	Clark.....	Southport avenue.....	74	1,554 00
Twenty-first.....	Johnson.....	Center avenue.....	74	1,554 00
Troy.....	Kinzie.....	Chicago avenue.....	125	2,625 00
Trumble.....	Kinzie.....	Chicago avenue.....	147	3,087 00
Thirty-fourth.....	Archer avenue.....	Western avenue.....	33	663 00
Twenty-fourth.....	W. Forty-first.....	W. Fortieth.....	34	714 00
Twenty-fifth.....	Kellogg.....	W. Fortieth.....	103	2,163 00
Twenty-sixth.....	W. Fortieth.....	W. Forty-fourth.....	161	3,864 00
Twenty-eighth.....	W. Fortieth.....	W. Forty-fourth.....	21	441 00
Turner avenue.....	Twenty-first.....	Twenty-second.....	17	857 00
Throop.....	Twenty-second.....	River.....	21	525 00
Thirty-seventh.....	Halsted.....	Laurel.....	41	861 00
Thirty-seventh court.....	Halsted.....	Laurel.....	40	840 00
Thirty eighth court.....	Halsted.....	Laurel.....	55	1,155 00
Thirty-fourth court.....	Halsted.....	Laurel.....	20	420 00
Thirty-third.....	Archer avenue.....	Oakley avenue.....	14	294 00
Tracy avenue.....	Fifty-fifth.....	Fifty-seventh.....	21	441 00
Tallman avenue.....	North avenue.....	Hirsch.....	54	1,080 00
Twenty-first.....	Western avenue.....	Pan Handle R. R.....	20	440 00
Thirty-eighth.....	Hart.....	Pearson.....	138	2,520 00
Taylor.....	Central Park avenue.....	Lawndale avenue.....	24	480 00
Thirty-third court.....	Halsted.....	Laurel.....	26	520 00
Thirty-third court.....	Ashland avenue.....	Wood.....	60	1,200 00
Thirty-fourth court.....	Halsted.....	Ullman.....	42	840 00
Thirty-second.....	Ashland avenue.....	Paulina.....	10	200 00
Thirty-third.....	Ashland avenue.....	Wood.....	29	580 00

## STREETS ORDERED FOR IMPROVEMENT—CONTINUED.

STREET.	FROM	TO	No. of Pipes.	Amount.
Thirty-fourth. . . . .	Ashland avenue . . . .	Wood. . . . .	23	\$ 460 00
Thirty-second. . . . .	Ullman. . . . .	Benson. . . . .	22	440 00
Thirty-sixth. . . . .	Western avenue . . . .	Oakley avenue. . . . .	17	840 00
Union. . . . .	Sixty-third. . . . .	Sixty-seventh. . . . .	49	1,029 00
Vincennes avenue. . . .	Sixty-eighth. . . . .	Seventy-ninth. . . . .	456	9,120 00
Van Buren. . . . .	Homan avenue. . . . .	Central Park avenue. .	55	1,155 00
Vincennes road. . . . .	Sixty-eighth. . . . .	Seventy-ninth. . . . .	280	7,000 00
Weed. . . . .	Clybourn avenue. . . .	Hawthorn. . . . .	54	1,184 00
Wilson, or 44th. . . . .	Union. . . . .	Stewart avenue. . . . .	75	1,575 00
Winter. . . . .	Sixty-ninth. . . . .	Seventy-first. . . . .	73	1,583 00
Wrightwood avenue. . .	C. & E. R. R. . . . .	Southport avenue. . .	34	714 00
Wood. . . . .	Fifty-ninth. . . . .	Sixty-first. . . . .	79	1,659 00
Winter. . . . .	Sixtieth. . . . .	Gunn. . . . .	10	210 00
Warren avenue. . . . .	Garfield Park. . . . .	Crawford avenue. . . .	54	1,134 00
Wallace street. . . . .	Humboldt boulevard. .	Belmont avenue. . . .	185	3,885 00
Walnut. . . . .	N. Clark. . . . .	E. Ravenswood Park. .	68	1,323 00
Wright. . . . .	N. Fifty-ninth. . . . .	Claremont avenue. . .	76	1,596 00
Ward. . . . .	Clybourn avenue. . . .	Fullerton avenue. . . .	47	940 00
West court. . . . .	Belmont avenue. . . . .	Southern Terminus. . .	8	168 00
Warsaw avenue. . . . .	Thomas. . . . .	California avenue. . .	67	1,340 00
Wood. . . . .	Roscoe. . . . .	Belmont avenue. . . . .	10	200 00
Washington. . . . .	Hamlin avenue. . . . .	W. Fortieth. . . . .	59	1,239 00
Wright. . . . .	Thirty-ninth. . . . .	Forty-third. . . . .	62	1,240 00
Woodlawn avenue. . . .	Seventy-sixth. . . . .	Eighty-third. . . . .	266	5,852 00
Wolfgram. . . . .	Herndon. . . . .	Southport avenue. . .	15	800 00
Wall. . . . .	Thirty-first. . . . .	Thirty-fourth court. .	77	1,540 00
Washtenaw avenue. . .	Chicago avenue. . . . .	Division. . . . .	39	780 00
Werden. . . . .	Rockwell. . . . .	California avenue. . .	45	900 00
Yorktown. . . . .	Thirty-fifth. . . . .	Canal. . . . .	38	798 00
Total. . . . .			87,718	\$835,812 00

It will be observed by the foregoing report that our water revenue is steadily on the increase.

The amount assessed at the close of the year 1892 was \$1,971,506.50 exclusive of meter rates, which shows an increase of \$166,116.24 over last year's statement.

Our work on water service pipes shows a falling off from last year's report by reason, principally, of water mains not being laid.

We put in by contract during the year 1892, 9,966 pipes at a net cost of \$147,095.61; and the amount of Assessor's cost covered into the water fund is \$14,744.15 (while last year we put in 11,246 pipes costing \$191,596.02 and Assessor's cost was \$16,803.28). Some seven or eight streets were not completed on account of the main pipe not being laid.

During the year ending December 31, 1892, we received orders for estimates for water service pipes on 568 streets. We examined and returned to the Superintendent of special assessments, estimates on 422 streets aggregating 37,718 pipes at a cost of \$835,812.00; this is an increase of 13,778 pipes



over last year. All this work, involving the most careful scrutiny as to description of each lot, block and subdivision has been done by the individual work of Mr. Arthur Erbe, the chief draughtsman of this sub-department, in making out the *original* schedules of these assessments, the record of which fills over three large volumes of 300 pages each.

On a large number of the streets ordered we found the work already done, and some requiring only a few pipes, when we would notify the owners to put in the necessary pipes, thus saving cost of an assessment; yet all this requires a careful investigation to avoid as much as possible the leaving any of this underground work undone.

In conclusion I would beg leave to state that some of the needs of this sub-department asked for in former reports still exist. We are still in need of more room and better light for the execution of the immense amount of work to be done in this office. Several of our valuable plat books, which have been in constant use since 1868, are becoming in many instances nearly obliterated, and should be renewed immediately, if possible. We also need plat books of the large amount of territory annexed to the "old city" within the water district, as in making all assessments for improvements we have to resort to tracings taken from the county records, instead of having plat books drawn on a scale of 50 feet per inch, on which to keep proper records of our work, thus taking the time of our draughtsmen, instead of having them engaged on renewing our old and worn out plat books.

I desire now to return my sincere thanks for the many courtesies shown to me in the discharge of my official duties by yourself and chiefs of other departments.

Respectfully submitted,

THOMAS<sup>d</sup> PATTISON,

*Water Assessor.*

## PERMIT CLERK'S REPORT.

MR. E. J. DWYER,

*Superintendent.*

DEAR SIR:—I have the honor to transmit, for consideration, the annual report of this sub-department for the fiscal year ending December 31, 1892, showing in tabulated form the number of ferrules inserted, together with a statement of receipts and expenditures and an inventory of material on hand.

### SCREW FERRULES INSERTED DURING THE YEAR 1892.

MONTHS.	$\frac{3}{4}$ -Inch Screw Ferrules Inserted.	$\frac{1}{2}$ -Inch Screw Ferrules Inserted.	1-Inch Screw Ferrules Inserted.	Grand Total of Screw Ferrules Inserted.
January .....	96	80	6	182
February .....	225	215	11	451
March .....	383	494	25	902
April .....	454	434	25	913
May .....	326	422	32	780
June .....	398	357	15	765
July .....	473	376	32	881
August .....	544	595	28	1,167
September .....	461	515	30	1,006
October .....	453	389	33	875
November .....	438	412	19	869
December .....	334	321	15	670
Total .....	4,580	4,610	271	9,461

## DRIVEN FERRULES INSERTED DURING THE YEAR 1892.

MONTHS.	$\frac{1}{2}$ -inch Driven Ferrules Inserted.	$\frac{3}{4}$ -inch Driven Ferrules Inserted.	1-inch Driven Ferrules Inserted.	Grand Total of Driven Ferrules Inserted.
January.....	....	....	....	....
February.....	....	....	....	....
March.....	....	62	....	62
April.....	....	433	....	433
May.....	....	1,370	....	1,370
June.....	277	1,426	9	1,712
July.....	408	821	8	1,232
August.....	314	1,700	1	2,015
September.....	134	1,675	5	1,814
October.....	13	1,428	....	1,441
November.....	13	1,368	1	1,382
December.....	5	645	....	650
TOTAL.....	1,164	10,928	19	12,111

## SUMMARY OF FERRULES INSERTED.

	$\frac{1}{2}$ -inch.	$\frac{3}{4}$ -inch.	1-inch.	Grand Total.
Screw ferrules.....	4,580	4,610	271	9,461
Driven ferrules.....	1,164	10,928	19	12,111
GRAND TOTAL.....	5,744	15,538	290	21,572

The ferrules inserted as per preceding tables were distributed throughout the various parts of the City, as follows :

		$\frac{3}{4}$ -inch.	$\frac{1}{2}$ -inch.	1-inch.	Total Screw Ferrules.	Total Driven. Ferrules.
In old part of City.....	{ Screw ..	1,139	1,978	169	3,286	.....
	{ Driven..	983	2,939	16	.....	3,938
In Lake View .....	{ Screw ..	515	761	13	1,289	.....
	{ Driven..	37	1,847	.....	.....	1,884
In Hyde Park.....	{ Screw ..	899	967	59	1,925	.....
	{ Driven..	135	2,750	3	.....	2,888
In Town of Lake.....	{ Screw ..	1,422	629	22	2,073	.....
	{ Driven..	9	1,800	.....	.....	1,809
In Calumet .....	{ Screw ..	240	31	.....	271	.....
	{ Driven..	.....	.....	.....	.....	.....
In Jefferson.....	{ Screw ..	322	228	4	554	.....
	{ Driven..	.....	1,592	.....	.....	1,592
In Cicero .....	{ Screw ..	43	16	4	63	.....
	{ Driven..	.....	.....	.....	.....	.....
TOTAL.....		5,744	15,538	290	9,461	12,111

The Commissioner of Public Works advertised for bids, and let contracts for laying water service pipes in streets about to be improved for which ferrules were inserted, as follows :

	$\frac{3}{4}$ -inch Ferrules.
For old part of City.....	2,592
For Lake View .....	1,616
For Hyde Park .....	2,591
For Town of Lake .....	1,648
For Jefferson.....	1,519
GRAND TOTAL.....	9,966

In replaced street mains the following number of ferrules were inserted during the year 1892 :

	$\frac{3}{8}$ -inch.	$\frac{1}{2}$ -inch.	1-inch.	Grand Total.
Inserted in old part of City.....	984	267	16	1,267
Inserted in Lake View .....	14	37		51
Inserted in Hyde Park .....	186	114	3	258
Inserted in Town of Lake .....		13		13
Inserted in Jefferson.....				
Inserted in Cicero.....				
<b>TOTAL .....</b>	<b>1,134</b>	<b>431</b>	<b>19</b>	<b>1,584</b>

The number of applications made at the office for ferrules to water service pipes during the past year (exclusive of city contracts and re-taps) were as follows :

	Number of Ferrules.
Inserted in old part of City.....	3,365
Inserted in Lake View .....	1,506
Inserted in Hyde Park.....	1,969
Inserted in Town of Lake .....	2,221
Inserted in Calumet .....	271
Inserted in Cicero.....	63
Inserted in Jefferson.....	627
<b>Grand Total .....</b>	<b>10,022</b>

In the above table are included those applications of parties who had an inadequate supply, and had their old pipes replaced by larger ones. Of such there were as follows :

	Number of Ferrules.
In old part of City.....	486
In Lake View.....	53
In Hyde Park.....	27
In Town of Lake.....	60
In Calumet .....	..
In Cicero .....	..
In Jefferson .....	..
<b>Grand Total .....</b>	<b>626</b>

By deducting the ferrules put in as re-taps and those put in for enlarged service pipes from the total as per preceding tables, gives the actual increase of pipes and taps over those inserted in previous years, as follows :

	Number Inserted.	Actual Increase.
Total ferrules inserted in old part of City.....	7,224	
Less 1,267 re-taps and 486 for enlarged pipes.....	1,753	5,471
Total ferrules inserted in Lake View.....	3,173	
Less 51 re-taps and 53 for enlarged service pipes.....	104	3,069
Total ferrules inserted in Hyde Park.....	4,813	
Less 253 re-taps and 27 for enlarged service pipes.....	280	4,533
Total ferrules inserted in Town of Lake.....	3,862	
Less re-taps and for enlarged service pipes.....	73	3,809
Total ferrules inserted in Calumet.....	271	
Less for re-taps and enlarged service pipes.....		271
Total ferrules inserted in Cicero.....	63	
Less for re-taps and enlarged service pipes.....		63
Total ferrules inserted in Jefferson.....	2,146	
Less for re-taps and enlarged service pipes.....		2,146
Total actual increase for the whole City.....		19,362

During the year 1892 there were issued by this department the following number of permits :

For tapping water mains for pipes to inside of curb line for future use.....	9,966
For tapping water mains for enlarged service pipes to houses previously supplied.....	626
For tapping water mains for service pipes to houses not previously supplied.....	6,393
For connections to service pipes in inside of curb line.....	308
For 6-inch cast-iron pipes, to be used as service pipes.....	5
For 4-inch cast-iron pipes, to be used as service pipes.....	67
For "T" connections for 1½ and 2 inch service pipes.....	98
For miscellaneous or special permits.....	495
Grand total.....	18,548

#### MISCELLANEOUS.

Number of inspections made by the Plumbing Inspectors.....	15,163
Number of plumbers' bonds filed.....	452
Number of plumbers' licenses issued.....	452
Number of leak reports received.....	610

Tabular statement showing by comparison the number of ferrules inserted each year for the last twelve years, and the total number in use on January 1, 1893:

	Year.	Number Ferrules in old part of City.	Number of Ferrules in Suburbs.	Total number of Ferrules in use.
Inserted previous to.....	1880	63,510	.....	.....
	1880	4,439	.....	67,949
	1881	5,678	.....	73,627
	1882	5,213	.....	78,840
	1883	6,656	.....	85,496
	1884	6,637	.....	92,133
	1885	6,555	.....	98,688
	1886	8,083	.....	106,771
	1887	8,307	.....	115,578
	1888	10,089	.....	125,667
	1889	7,617	.....	.....
* Lake View, six months.....	1889	.....	889	137,189
* Hyde Park, six months.....	1889	.....	1,730	
* Town of Lake, six months.....	1889	.....	1,286	
	1890	10,127	.....	.....
* Lake View.....	1890	.....	3,440	159,001
* Hyde Park.....	1890	.....	3,833	
* Town of Lake.....	1890	.....	3,951	
* Calumet.....	1890	.....	152	
* Cicero.....	1890	.....	289	
* Jefferson.....	1890	.....	20	
	1891	10,237	.....	.....
* Lake View.....	1891	.....	2,458	182,382
* Hyde Park.....	1891	.....	5,658	
* Town of Lake.....	1891	.....	4,165	
* Calumet.....	1891	.....	234	
* Cicero.....	1891	.....	59	
* Jefferson.....	1891	.....	570	
	1892	7,224	.....	.....
* Lake View.....	1892	.....	3,173	203,954
* Hyde Park.....	1892	.....	4,813	
* Town of Lake.....	1892	.....	3,852	
* Calumet.....	1892	.....	271	
* Cicero.....	1892	.....	63	
* Jefferson.....	1892	.....	2,146	

\* The number of ferrules inserted in the suburbs previous to annexation is unknown.

## RECEIPTS—EARNINGS.

Amount received for plumbers' licenses at \$25.00 each .....	\$11,800 00
Amount received for inserting ferrules (of all sizes) as per cash books .....	45,208 04
Amount received for permits giving permission to connect with pipes in at curb lines on sundry streets in annexed suburbs, on which only a part of the assessment has been collected .....	266 00
Amount to be credited to water fund for 9,966 three-quarter-inch ferrules inserted for street improvement service pipes and deducted from contractor's bills at \$3.50 each .....	34,881 00
Amount carried forward .....	\$ 91,855 04
For re-taps inserted in replaced street mains, and for miscellaneous use, as follows :	
1,134 $\frac{3}{8}$ -inch ferrules @ \$3.00 .....	3,402 00
431 $\frac{1}{2}$ -inch ferrules @ \$3.50 .....	1,508 50
19 1-inch ferrules @ \$5.40 .....	102 60
Total receipts—earnings .....	\$96,668 14

## EXPENDITURES.

Cost of Permit Clerk's books, blanks, etc. ....	\$ 367 45
Cost of miscellaneous material for use of Tappers .....	71 18
Cost of new parts of screw tapping machines .....	495 75
Cost of advertising for bids to lay water service pipes .....	23 00
Plumbers' bills paid for lengthening out service pipes on sundry streets .....	495 84
Salaries paid Permit Clerk and Assistants .....	7,648 57
Salaries paid Plumbing Inspectors .....	17,006 51
Salaries paid Tappers .....	15,064 39
Paid for the use of horses and wagons for Tappers .....	10,540 53
Salary paid Tap Inspector .....	1,000 00
Paid for hired day labor .....	7,065 00
Money refunded for permits cancelled .....	8 50
Cost of 4,574 $\frac{3}{8}$ -inch screw ferrules, inserted—	
3,312 @ 37 $\frac{1}{2}$ c. ....	1,229 58
1,262 @ 88c. ....	479 56
Cost of 4,600 $\frac{1}{2}$ -inch screw ferrules, inserted—	
1,120 @ 44 $\frac{1}{2}$ c. ....	495 60
3,480 @ 45c. ....	1,566 00
Cost of 271 1-inch screw ferrules, inserted, @ 60c. ....	162 60
Cost of 36 $\frac{3}{8}$ -inch driven ferrules, inserted, @ 45c. ....	16 20
Cost of 10,507 $\frac{1}{2}$ -inch driven ferrules, inserted—	
309 @ 45 $\frac{1}{2}$ c. ....	140 59
10,198 @ 45c. ....	4,589 10
Cost of 6 $\frac{3}{8}$ -inch screw ferrules, inserted as re-taps, @ 37 $\frac{1}{2}$ c. ....	2 28
Cost of 10 $\frac{1}{2}$ -inch screw ferrules, inserted as re-taps, @ 45c. ....	4 50
Cost of 1,128 $\frac{3}{8}$ -inch driven ferrules, inserted as re-taps, @ 45c. ....	507 60
Cost of 421 $\frac{1}{2}$ -inch driven ferrules, inserted as re-taps, @ 45c. ....	189 45
Cost of 19 1-inch driven ferrules, inserted as re-taps, @ \$1.30 .....	24 70
Cost of car for Plumbing Inspectors and Tappers (estimated) .....	500 00
Cost of oil for tapping machines .....	2 50



Cost of hardened steel sockets, as follows:

24 1-inch, @ \$3.50 each.....	\$ 42 00
Cost of tape lines for Plumbing Inspectors and Tappers.....	134 36
Cost of 8,000 fibre washers.....	16 00
Cost of tape lines for Plumbing Inspector and Tappers.....	134 35

Cost of drills used upon screw tapping machines, as follows:

120 5/8-inch, @ \$4.05.....	486 00
126 3/4-inch, @ \$4.95.....	623 70
12 1-inch, @ \$5.85.....	70 20

Cost of drills used upon smooth bore tapping machines, as follows:

44 5/8, 38 3/4 and 4 1-inch, @ \$1.60 each.....	137 60
---	--------

Cost of 253 tail pieces for sundry ferrules..... 89 58

Total expenditures.....\$71,375 67

Total receipts—earnings..... 96,668 14

Total expenditures..... 71,375 67

Net gain.....\$25,292 47

#### INVENTORY OF PROPERTY, WATER PERMIT DEPARTMENT, DECEMBER 31, 1892.

	5/8-inch Screw Ferrules.	3/4-inch Screw Ferrules.	1-inch Screw Ferrules.
On hand December 31, 1891.....	3,318	1,120	158
Purchased during 1892.....	3,174	5,735	400
<b>TOTAL.....</b>	<b>6,492</b>	<b>6,855</b>	<b>558</b>
Used during 1892.....	4,580	4,610	271
On hand December 31, 1892.....	2,023	2,136	293
Less damaged ferrules.....	93	78	6
<b>Perfect ferrules on hand December 31, 1892.....</b>	<b>1,930</b>	<b>2,058</b>	<b>287</b>

	$\frac{3}{4}$ -inch Driven Ferrules.	$\frac{1}{2}$ -inch Driven Ferrules.	1-inch Driven Ferrules.
On hand December 31, 1891.....	3,000	309	457
Purchased during 1892.....		13,233	
TOTAL.....	3,000	13,542	457
Used during 1892.....	1,164	10,926	19
On hand December 31, 1892.....	1,881	2,597	444
Less damaged ferrules.....	27	37	
Perfect ferrules on hand December 31, 1892.....	1,854	2,560	444

## SUMMARY OF FERRULES ON HAND.

	$\frac{3}{4}$ -inch Ferrules.	$\frac{1}{2}$ -inch Ferrules.	1-inch Ferrules.	Grand Total.
Screw ferrules on hand December 31, 1892.....	1,930	2,058	287	4,275
Driven ferrules on hand December 31, 1892.....	1,854	2,560	444	4,858
TOTAL.....	3,784	4,618	731	9,133

## EXTRA COUPLINGS FOR SCREW FERRULES.

	Extra Couplings for $\frac{3}{4}$ -inch Screw Ferrules.	Extra Couplings for $\frac{1}{2}$ -inch Screw Ferrules.	Extra Couplings for 1-inch Screw Ferrules.	Extra Couplings for $\frac{3}{4}$ -inch Driven Ferrules.	Extra Couplings for $\frac{1}{2}$ -inch Driven Ferrules.
On hand December 31, 1891.....	339	88		80	401
Purchased during 1892.....	1,000	1000	100	100	100
TOTAL.....	1,339	1,088	100	180	501
Used during 1892.....	202	22	9	17	8
On hand December 31, 1892.....	1,137	1,066	91	147	493

	1/2-inch Screw Drills.	3/4-inch Screw Drills.	1-inch Screw Drills.	1 1/2-inch Smooth Bore Drills.	2-inch Smooth Bore Drills.	3-inch Smooth Bore Drills.	4-inch Smooth Bore Drills.
On hand December 31, 1891.....	3	79	71	22	1	50	22
Purchased during 1892.....	.....	84	96	12	.....	24	60
<b>TOTAL.....</b>	<b>3</b>	<b>163</b>	<b>167</b>	<b>34</b>	<b>1</b>	<b>74</b>	<b>82</b>
Used during 1892.....	1	120	126	12	1	30	38
On hand December 31, 1892.....	2	43	41	22	.....	30	44

	1/2-inch Short Shank Plugs.	1/2-inch Long Shank Plugs.	3/4-inch Short Shank Plugs.	3/4-inch Long Shank Plugs.	1-inch Short Shank Plugs.	1-inch Long Shank Plugs.	1 1/2-inch Short Shank Plugs.	1 1/2-inch Long Shank Plugs.
On hand December 31, 1891.....	43	34	19	71	22	72	22	13
Used during 1891.....	18	8	2	17	5	30	1	5
On hand December 31, 1892..	25	26	21	54	17	42	21	8

We had, on December 31, 1892, machines for inserting driven and screw ferrules, as follows:

Number of machines for driven ferrules .....	8
Number of Mueller screw-tapping machines.....	19
<b>Total .....</b>	<b>27</b>

On December 31, 1892, we had on hand tools and extra fittings belonging to machines for driven ferrules, and to Mueller screw-tapping machines, as follows:

Ratchets .....	2
Monkey wrenches .....	15
Spring and pins back of ratchet .....	10
Ratchet dogs.....	2
Ratchet wheels.....	10
Hammers .....	8
Feed yokes .....	12
Chain yokes.....	1
Relief valves .....	17
Oilers.....	19
Stuffing nuts .....	5

Brass cups .....	8
Tool boxes .....	16
Extra heavy brass cocks for cylinders .....	6
Iron cylinders .....	16
Brass padlocks .....	10
Handled feed nuts .....	12
Testing rods .....	..
Rubber washers and valves .....	8
Rubber gaskets, 7½-inch .....	12
Rubber for saddles .....	12
⅝-inch steel sockets .....	18
¾-inch steel sockets .....	30
1-inch steel sockets .....	18
⅝-inch brass sockets .....	1
¾-inch brass sockets .....	8
1-inch brass sockets .....	5
3-inch iron sockets .....	2
4-inch iron sockets .....	15
6-inch iron sockets .....	14
8-inch iron sockets .....	12
10-inch iron sockets .....	11
12-inch iron sockets .....	6
16-inch iron sockets .....	1
Chains, long .....	18
Chains, short .....	11
Brass gate arms .....	8
Smooth bore drills, 1-inch .....	10
Smooth bore drills, ¾-inch .....	54
Smooth bore drills, ⅝-inch .....	30
Screw drills, ½-inch .....	2
Screw drills, ⅝-inch .....	43
Screw drills, ¾-inch .....	41
Screw drills, 1-inch .....	22
Tape lines .....	26

The cost of ferrules on hand, as per preceding inventory, is as follows :

1,854 ⅝-inch driving ferrules, at 40c. ....	\$ 741 60
2,560 ¾-inch driving ferrules, at 45c. ....	1,152 00
444 1-inch driving ferrules, at \$1.30 .....	577 20
1,930 ⅝-inch screw ferrules, at 38c. ....	733 40
2,058 ¾-inch screw ferrules, at 45c. ....	926 10
287 1-inch screw ferrules, at 60c .....	172 20

Total value of ferrules on hand .....

\$4,302 50

The cost of screw and smooth bore drills on hand, as per inventory presented above, is as follows :

2 ½-inch screw drills, at \$4.05 .....	\$ 8 10
43 ⅝-inch screw drills, at \$4.05 .....	174 15
41 ¾-inch screw drills, at \$4.95 .....	202 95
22 1-inch screw drills, at \$5.85 .....	128 70
84 smooth bore drills of all sizes, at \$1.60 each .....	134 40

Total value of drills on hand .....

\$648 30

The receipts of this sub-department were greatly augmented during the past year by the action of the City Council in raising the plumbers' license from one dollar to twenty-five dollars per annum. The total revenue from that source amounted to \$11,300 against \$476.00 for the previous year.

We inserted during the past year only 1,809 ferrules less than during the busy year 1891. We would have reached the figures of the previous year, if not exceeded them, had all the pipes contracted for been put in ; but unfortunately it was found that a number of streets had no water mains, and had to be postponed until the new year.

No concerted action has yet been taken to ascertain the number and size of service pipes and ferrules inserted previous to annexation and the locations thereof in the suburbs, Lake View, Hyde Park and Town of Lake. If a careful examination of each street in said suburbs would be made, the information gathered would be of great benefit to the Water Department and a long-felt want supplied to the plumbers and to the public in general.

Applications are made daily for the above mentioned information, which we are unable to supply.

Permit me to express my appreciation of the courtesies extended me during the past year by yourself, and the chiefs of other bureaus, in the discharge of the duties of this sub-department.

Respectfully submitted,

HENRY G. NAPER,

*Permit Clerk, Water Department.*



**REPORT**  
**OF THE**  
**BUREAU OF MAPS**  
**CITY OF CHICAGO**

By order passed by the City Council, the following streets were re-numbered, viz :

Hoynes avenue, from Fullerton avenue to City limits.  
Clifton avenue, from Wellington avenue to Northern terminus.  
Henry street, from Morgan street to Western terminus.  
Evergreen avenue, from Rockwell street to California avenue.  
Thirty-sixth street, from Lake avenue to Rhodes avenue.

During office hours 250 citizens called on an average daily at the office for legal descriptions of real estate, house numbers, or other information.

As it will be of general interest, I enclose a history of the growth of the City of Chicago, accompanied by an explanatory map.

## THE GROWTH OF CHICAGO.

### THE "TOWN OF CHICAGO."

John H. Kinzie, Gurdon S. Hubbard, Ebenezer Goodrich, John K. Boyer and John S. C. Hogan, first trustees. Was incorporated by Act of February 11, 1835. It comprised all that territory covered by Sections 9 and 16, North and South fractional Section 10 and fractional Section 15, in Town 39' North, Range 14 East of 3d Principal Meridian: "Provided that the authority of the Board of Trustees of the said town of Chicago shall not extend over the South fractional Section 10 until the same shall cease to be occupied by the United States."

### THE "CITY OF CHICAGO."

Incorporated by Act of March 4, 1837, comprised "the district of country in the County of Cook, etc., known as the East  $\frac{1}{2}$  of the Southeast  $\frac{1}{4}$  of Section 33, Township 40 North, Range 14 East, and fractional Section 34, Township 40 North, Range 14 East; also the East  $\frac{1}{4}$  of Sections 6, 7, 18 and 19, all of fractional Section 3, and of Sections 4, 5, 8 and 9, and fractional Section 10 (except the Southwest fractional  $\frac{1}{4}$  thereof, occupied as a military post, until the same should become private property), fractional Section 15, Sections 16, 17, 20, 21, and fractional Section 22, Township 39 North, Range 14 East."

Total area, March 4, 1837, 10.635 square miles.

### FIRST EXTENSION OF CITY LIMITS.

Act of February 16, 1847, provided "That the district of country in the County of Cook, etc., known and described as follows, to-wit: All that part of Township 39 North, Range 14 East of the 3d Principal Meridian, which lies north of the north line of Sections 27, 28, 29 and 30 of said township, and the East  $\frac{1}{2}$  of Section 33, Township 40 North, Range 14 East,





12

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and fractional Section 34, Township 40 North, Range 14 East, shall here-  
be included in, constitute and be known by the name of City of  
Chicago."

Area of first extension.....	3.375 square miles		
Carried.....	10.635	"	"
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Total area of City, February 16, 1847,	14.01	"	"

## SECOND EXTENSION OF CITY LIMITS.

Act of February 12, 1853, provides "That the corporate limits and jurisdiction of the City of Chicago shall be, and the same are hereby extended so as to embrace and include within the same the several tracts of land hereinafter described, which shall be deemed parts of the divisions of the said City named in connection therewith, as follows :

"*North Division.*—All those parts of Sections 31 and 32, Township 40 North, Range 14 East, lying east of the center of the North branch of the Chicago river, and the west  $\frac{1}{2}$  of Section 33, in same township and range.

"*South Division.*—All of fractional Section 27, Township 39 North, Range 14 East, and so much of the shore and bed of the lake as lies within one mile east of said section, and all of that part of Section 28, same township and range, lying south and east of the South branch of the Chicago river.

"*West Division.*—All those parts of Sections 28, 29 and 30, Township 39 North, Range 14 East, lying north of the South branch of the Chicago river."

Area of second extension.....	3.988 square miles		
Carried.....	14.01	"	"
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Total area of City, February 12, 1853,	17.998	"	"

## THIRD EXTENSION OF CITY LIMITS.

Act of February 13, 1863, provides "The corporate limits and jurisdiction of the City of Chicago shall embrace and include within the same all of Township 39 North, Range 14 East of 3d Principal Meridian, and all of Sections 31, 32 and 33, and fractional Section 34, Township 40 North, Range 14 East, together with so much of the waters and bed of Lake Michigan as lies within one mile of the shore thereof, and east of the territory aforesaid."

Area of third extension.....	6.284 square miles		
Carried.....	17.998	"	"
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Total area of City, February 13, 1863,	24.282	"	"

## FOURTH EXTENSION OF CITY LIMITS.

Act of February 27, 1869, provides "That the territorial limits of the City of Chicago shall be, and are hereby extended as follows: That part of Section 30, Township 40 North, Range 14 East, which lies west of the North branch of the Chicago river; Sections 1, 2, 11, 12, 13, 14, 23, 24, 25, 26, and that part of Sections 35 and 36 lying northwest of the center of the Illinois and Michigan canal, all in Township 39 North, Range 13 East, shall be, and are hereby added to the City."

Area of fourth extension. ....	11.38	square miles
Carried.....	24.282	" "
<hr/>		
Total area of City, February 27, 1869,	35.662	" "

## FIFTH EXTENSION OF CITY LIMITS.

Act of May 16, 1887, provides "That Section 36, Township 40 North, Range 13 East, Town of Jefferson, shall be and is hereby added to the City."

Area of fifth extension.....	1	square mile
Carried.....	35.662	" "
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Total area of City, May 16, 1887.....	36.662	" "

## SIXTH EXTENSION OF CITY LIMITS.

Act of April 29, 1889, provides "That that part of Sections 35 and 36 lying southeasterly of the center of Illinois and Michigan canal, in Township 39 North, Range 13 East of 3d Principal Meridian, in Cook County, Illinois; also that part of Sections 3, 10, 15, and the east  $\frac{3}{4}$  of Sections 22, 27 and 34, lying northwest of the center of the Illinois and Michigan canal, in Township 39 North, Range 13 East of the 3d Principal Meridian, etc.; and also Section 25, Township 40 North, of Range 13 East of 3d Principal Meridian, etc., be and the same are hereby declared to be annexed to the incorporated City of Chicago."

Area of sixth extension.....	7.15	square miles
Carried.....	36.662	" "
<hr/>		
Total area of City, April 29, 1889....	43.812	" "

## SEVENTH EXTENSION OF CITY LIMITS.

July 15, 1889, an order was filed in the County court of Cook county, declaring the result of a special election, held June 29, 1889, by which the following territory, all situated in the county of Cook, Illinois, was annexed to the City of Chicago, viz:

1.—Part of Town of Cicero, viz : The east $\frac{1}{2}$ of Sections 4 and 9, Township 39 North, Range 13 East of 3d Principal Meridian.....	1	square mile	
2.—The City of Lake View.....	10.408	"	miles
3.—The Town of Jefferson (except Sections 25 and 36, formerly annexed).....	29.53	"	"
4.—The Town of Lake.....	36	"	"
5.—The Village of Hyde Park.....	49.132	"	"
Total area of seventh extension.....	126.072	"	"
Carried.....	43.812	"	"
Total extension of City, July 15, 1889,	169.884	"	"

EIGHTH EXTENSION OF CITY LIMITS.

*By election held April 1, 1890.*

*The Village of Gano.*—The south  $\frac{1}{2}$  of Section 21, all of Section 28 north of the Indian boundary line, that part of Section 28 south of the Indian boundary line, lying west of the east line of said village of Gano, and north of the Little Calumet river; also that part of Section 33 north of the Indian boundary line, lying north of the Little Calumet river, and that part of the east  $\frac{1}{2}$  of the northwest  $\frac{1}{4}$  of Section 33 south of the Indian boundary line, lying north of the Little Calumet river, all in Town 37 North, Range 14 East of the Principal Meridian.

Area of eighth extension.....	1.773	square miles	
Carried.....	169.884	"	"
Total area of City, April 1, 1890....	171.657	"	"

NINTH EXTENSION OF CITY LIMITS.

By ordinance passed May 12, 1890, Sections 5 and 6, also the northeast  $\frac{1}{4}$  of Section 4, except the west fifty feet of the south 666 feet thereof; also the northwest  $\frac{1}{4}$  of Section 4, except the west south 666 feet thereof; also the southeast  $\frac{1}{4}$  of Section 4, except the west fifty feet thereof; also the northeast  $\frac{1}{4}$  Section 9, except the west fifty feet thereof; all in Town 37 North, Range 14 East of the 3d Principal Meridian.

Area of ninth extension.....	2.899	square miles	
Carried .....	171.657	"	"
Total area of City, May 12, 1890...	174.556	"	"

## TENTH EXTENSION OF CITY LIMITS.

*By election held November 4, 1890.*

1. *Village of Washington Heights.*—Section 7, the west  $\frac{3}{4}$  and north-east  $\frac{1}{4}$  of northeast quarter of Section 8, and the north  $\frac{1}{2}$  of Sections 17 and 18, all in Town 37 North, Range 14 East of 3d Principal Meridian. 2.81 square miles.

2. *Village of West Roseland.*—Southeast  $\frac{1}{4}$  Section 9 (except the west fifty feet thereof), the east  $\frac{1}{4}$  of northeast  $\frac{1}{4}$  of Section 20, the north  $\frac{1}{2}$  of Section 21, and all of Section 16, all in Town 37 North, Range 14 East of 3d Principal Meridian. 1.793 square miles.

Total area of tenth extension..... 4.603 square miles

Carried ..... 174.556 “ “

Total area of City, November 4, 1890, 179.159 “ “

## ELEVENTH EXTENSION OF CITY LIMITS.

*By election held April 7, 1891.*

*The Village of Fernwood, viz:* The west  $\frac{1}{2}$  and the west fifty feet of east  $\frac{1}{2}$  of Section 9, the east  $\frac{1}{2}$  of the southeast  $\frac{1}{4}$  and the southeast  $\frac{1}{4}$  of the northeast  $\frac{1}{4}$  of Section 8, the southwest  $\frac{1}{4}$  and the south 666 feet of the northwest  $\frac{1}{4}$  and the west fifty feet of the southeast  $\frac{1}{4}$ , and the west fifty feet of the south 666 feet of the northeast  $\frac{1}{4}$  of Section 4, all in Town 37 North, Range 14 East of the 3d Principal Meridian.

Area of eleventh extension..... 0.981 square miles

Carried..... 179.159 “ “

Total area of City, April 7, 1891.... 180.14 “ “

Or 115,288.32 acres.

## AREA OF THE CITY BY WARDS.

1st ward, 1.16 sq. miles= 742.40 acres	18th ward, 0.582 sq. miles= 372.48 acres
2d “ 0.976 “ “ = 624.64 “	19th “ 0.822 “ “ = 526.08 “
3d “ 0.811 “ “ = 519.04 “	20th “ 1.059 “ “ = 677.76 “
4th “ 1.217 “ “ = 778.88 “	21st “ 1.024 “ “ = 655.36 “
5th “ 1.082 “ “ = 692.48 “	22d “ 0.588 “ “ = 376.32 “
6th “ 2.969 “ “ = 1,900.16 “	23d “ 0.75 “ “ = 480. “
7th “ 0.822 “ “ = 526.08 “	24th “ 0.755 “ “ = 483.20 “
8th “ 0.709 “ “ = 453.76 “	25th “ 4.438 “ “ = 2,840.32 “
9th “ 1.15 “ “ = 736.00 “	26th “ 5.97 “ “ = 3,820.80 “
10th “ 6.743 “ “ = 4,315.52 “	27th “ 29.431 “ “ = 18,835.84 “
11th “ 0.946 “ “ = 605.44 “	28th “ 7.149 “ “ = 4,575.86 “
12th “ 3.287 “ “ = 2,103.68 “	29th “ 6.00 “ “ = 3,840.00 “
*13th “ 2.317 “ “ = 1,482.88 “	30th “ 12.00 “ “ = 7,680.00 “
14th “ 3. “ “ = 1,920. “	31st “ 24.65 “ “ = 15,776.00 “
15th “ 3.454 “ “ = 2,210.56 “	32d “ 3.624 “ “ = 2,319.36 “
16th “ 0.736 “ “ = 471.04 “	33d “ 24.936 “ “ = 15,959.04 “
17th “ 0.678 “ “ = 433.92 “	34th “ 24.303 “ “ = 15,553.92 “

# THE PARK AND BOULEVARD SYSTEM OF THE CITY OF CHICAGO.

PARKS AND BOULEVARDS UNDER CONTROL OF THE RESPECTIVE  
PARK COMMISSIONERS.

## NORTH SIDE.

### *Parks.*

Lincoln park.....area, 400 acres

### *Boulevards.*

	Length in feet
Lake Shore drive, from Pearson street to Oak street,	1,180
Lake Shore drive, from Oak street to North avenue,	3,290
Lincoln Park Beach drive, from North avenue to Fullerton avenue.....	6,000
North avenue, from Lake Shore drive to Clark street,	1,382
North Park avenue, from Clark street to Fullerton avenue .....	2,357
Lake View boulevard, from Diversey street to Bel- mont avenue .....	2,621
Diversey street, from Lake View boulevard to Clark street.....	1,680
Fullerton avenue, from North Park avenue to Clark street.....	1,091

Total length of boulevards.....19,601=3.71 miles.

Lincoln Park Regatta course, about 6,000 feet in length, and contains  
an area of 13.75 acres.

## WEST SIDE.

### *Parks.*

	Area in Acres.
Douglas park.....	179.79
Garfield park.....	185.87
Humboldt park.....	200.62
Union park.....	14.80
Vernon park.....	4.51
Jefferson park .....	5.42
Wicker park.....	4.89
Campbell park.....	0.55
Logan square.....	6.06
Palmer square.....	15.79
Sacramento square.....	3.65
Total.....	621.95

*Boulevards.*

	Miles.
Southwest boulevard, from Douglas park to Illinois-Michigan canal.....	2.00
Douglas boulevard, from Douglas park to Garfield park.....	1.67
Central boulevard, from Central park avenue to Humboldt park.....	1.56
Humboldt boulevard, from Western avenue to Humboldt park,	2.50
Washington boulevard, from Halsted street to Garfield park..	3.25
Washington boulevard, from Crawford avenue to Robinson avenue.....	1.50
Ashland boulevard, from Lake street to Twelfth street.....	1.25
Ogden avenue and Twelfth street boulevard, from Ashland avenue to Douglas park.....	1.62
Jackson boulevard, from Garfield park to Halsted street.....	3.50
Warren avenue boulevard, from Garfield park to Crawford avenue.....	.25
Total length of boulevards.....	19.10

## SOUTH SIDE.

*Parks.*

	Area in Acres.
Jackson park.....	586.00
Washington Park.....	371.00
Gage park.....	20.00
Midway Plaisance.....	80.00
Total.....	1,057.00

*Boulevards.*

	Miles.
Grand boulevard, from Thirty-fifth street to Fifty-first street.	4.13
Drexel boulevard, from Oakwood avenue to Fifty-first street.	3.05
Oakwood boulevard, from Grand boulevard to Cottage Grove avenue.....	0.50
Michigan avenue boulevard, from Randolph street to Fifty-first street.....	5.73
Thirty-fifth street boulevard, from Michigan avenue to South Park avenue.....	0.32
Garfield boulevard, from Western avenue to South Park avenue.....	7.14
Western avenue boulevard, from Illinois-Michigan canal to Fifty-fifth street.....	2.81
Fifty-seventh street boulevard, from Illinois Central Railroad to west line of Jackson park.....	0.03
Total length of boulevards.....	23.71

# RECAPITULATION.

## UNDER CONTROL OF PARK COMMISSIONERS.

### *Parks.*

	Area in Acres.
North side .....	400.00
West side .....	621.95
South side .....	1,057.00
Total .....	2,078.95=3.248 square miles.

### *Boulevards.*

	Miles.
North side .....	3.71
West side .....	19.10
South side .....	23.71
Total .....	46.52

## PARKS AND PUBLIC SQUARES UNDER THE CONTROL OF THE CITY.

### NORTH SIDE.

	Area in Acres.
Gross park, Otto street, between Paulina and Wood streets..	0.53
Washington square, Dearborn avenue, Clark street, Walton and Washington places....	2.30
Union square, southeast corner Goethe and Astor streets...	0.46
Green Bay park, State street, Rush street and Bellevue place.	0.19
Oak park, Cass, Rush and Chestnut streets.....	0.20
Total.....	3.68

### WEST SIDE.

Bickerdike square, south side of Ohio street, between Armour and Bickerdike streets.....	0.94
Irving park, southeast corner of Irving Park boulevard and Irving avenue.....	0.25
Holstein park, Oakley avenue, between Ems and Hamburg streets.....	2.38
Congress park, west of Rockwell street, between Van Buren and Harrison streets....	0.68
Shedd's park, south of C. B. & Q. R. R., between Lawndale and Millard avenue and north of Twenty-third street,	1.08
Total.....	5.33



## SOUTH SIDE.

Aldine square, west side of Vincennes avenue, between Thirty-seventh and Thirty-eighth streets.....	1.49
Ellis park, Vincennes and Cottage Grove avenues, Thirty-sixth and Thirty-seventh streets.....	3.37
Lake Front park, east side of Michigan avenue, between Randolph street and Lake Park place.....	40.00
Adams park, Kidder court, Dobson avenue and Seventy-sixth street.....	0.82
Douglas Monument park, I. C. R. R., Thirty-fifth street and Groveland park.....	2.02
East End park, Fifty-first street, Fifty-third street and East End avenue.....	5.20
Lakewood park, Lake avenue, Greenwood avenue and 43d street.....	0.27
Woodland park, Cottage Grove avenue, I. C. R. R., south of Thirty-third street.....	3.76
Groveland park, Cottage Grove avenue, I. C. R. R., north of Thirty-fifth street.....	3.30
Total.....	60.23

## RECAPITULATION.

## PARKS UNDER CONTROL OF THE CITY.

	Area in Acres.
North side.....	3.68
West side.....	5.33
South side.....	60.23
Total.....	69.24

*Comparative Length of the Longest Thoroughfares of the City.*

	Miles.
<i>State Street</i> —Running north and south from North avenue (foot of Lincoln park) to Blue Island road or One Hundred and Twenty-seventh street.....	17
<i>Halsted Street</i> —Running north and south from Little Calumet river (southern city limits) to Lake Michigan.....	21½
<i>Western Avenue</i> —Running north and south from One Hundred and Seventh street (southern city limits) to Devon avenue (northern city limits).....	20½
<i>North Avenue</i> —Running east and west from West Seventy-second street or Washington avenue (western city limits) to Lake Michigan.....	9¾

	Miles.
<i>87th Street</i> —Running east and west from West Forty-eighth street (western city limits) to Lake Michigan.....	10½
<i>Milwaukee Avenue</i> —Running diagonally from southeast to northwest, from the intersection of West Lake and Canal streets to West Sixtieth street (Western City limits) .....	10

## CHANGING OF STREET NAMES ORDERED BY CITY COUNCIL.

### LAKE VIEW.

Ordinance passed July 25, 1892. Naming street newly opened from North Halsted street to Evanston avenue, between Graceland avenue and Buena avenue, Crescent place.

Ordinance passed September 26, 1892. Sulzer street, from Western avenue to its eastern terminus, changed to Montrose boulevard.

Ordinance passed October 10, 1892. Lewis street, from Wrightwood avenue to Diversey street, changed to Diversey place.

Ordinance passed January 11, 1892. Parts of Byron street and Sheffield avenue, changed to Sheridan road.

### HYDE PARK.

Ordinance passed February 25, 1892. Beveridge avenue, from Sixty-seventh street to seventy-first street, changed to Paxton avenue.

Ordinance passed February 25, 1892. Carse avenue, from the right of way of the P., Ft. W. & C. Ry. to its southern terminus, changed to Paxton avenue.

Ordinance passed February 25, 1892. Eleanor avenue, from Eighty-third street to its southern terminus, changed to Palmer avenue.

Ordinance passed February 25, 1892. Farragut avenue, from Seventy-third street to its southern terminus, changed to Palmer avenue.

Ordinance passed February 25, 1892. Juniata avenue, from Sixty-seventh street to its southern terminus, changed to Yates avenue.

Ordinance passed February 25, 1892. Minnehaha avenue, from Eighty-ninth street to its southern terminus, changed to Oglesby avenue.

Ordinance passed February 25, 1892. Spencer avenue, from Seventy-fourth street to its southern terminus, changed to Oglesby avenue.

Ordinance passed June 20, 1892. Avenue A, from Sixty-ninth to Seventy-first street, changed to Kinney avenue.

Ordinance passed June 20, 1892. Avenue B, from Sixty-ninth to Seventy-first street, changed to Seipp avenue.

Ordinance passed June 20, 1892. Avenue C, from Sixty-ninth to Seventy-first street, changed to Cregier avenue.

Ordinance passed October 3, 1892. South Park court, from Sixtieth street to Sixty-first place, changed to Washington avenue.

Ordinance passed October 10, 1892. Ridge avenue, from Jackson Park terrace to its northern terminus, changed to Star avenue.

Ordinance passed October 10, 1892. Madison court, from Jackson Park terrace to Sixty-seventh street, changed to Star avenue.

Ordinance passed October 24, 1892. Naming the alley lying north of Fifty-fifth street and running east and west between Kimbark and Monroe avenues, to Frederick court.

Ordinance passed December 28, 1892. Everett street, from Woodlawn avenue to Greenwood avenue, changed to Sixty-fourth street.

#### SOUTH DIVISION.

Ordinance passed March 7, 1892. Stanton avenue, from Thirty-fifth to Thirty-ninth street, changed to Rhodes avenue.

Ordinance passed March 7, 1892. Tucker street, from Thirty-fifth to Thirty-ninth street, changed to Auburn avenue.

Ordinance passed March 28, 1892. Douglas avenue, from Lake Michigan to its western terminus, changed to Thirty-fifth street.

Ordinance passed March 28, 1892. Egan avenue, from Lake Michigan to the western city limits, changed to Thirty-ninth street.

Ordinance passed October 10, 1892. Pierson avenue, from Thirty-fifth to Thirty-ninth street, changed to Albany avenue.

#### NORTH DIVISION.

Ordinance passed March 7, 1892. Pearson street, from the west line of Block 4, Bushnell's addition to Chicago to its western terminus, changed to Institute place.

Ordinance passed March 28, 1892. Jay Street, from Center street to Fullerton avenue, changed to Clifton avenue.

Ordinance passed June 20, 1892. North Franklin street, from Sigel street to Menomonee street, changed to North Park avenue.

Ordinance passed October 10, 1892. Twomey street, from Sedgwick street to western terminus, changed to West Beethoven place.

#### WEST DIVISION.

Ordinance passed March 28, 1892. Jan Huss avenue, from Madison street to Chicago avenue, changed to Springfield avenue.

Ordinance passed March 28, 1892. Jan Huss avenue, from Chicago avenue to North avenue, changed to Springfield avenue.

Ordinance passed May 23, 1892. Evergreen avenue, between Western and Kedzie avenues, in Section 25, 40, 13, changed to Conneaut avenue.





Ordinance passed July 6, 1892. Public alley running east and west from Throop street to Loomis street, between Madison and Monroe streets, declared to be a public street, to be known as Photo court.

Ordinance passed October 31st, 1892. Coulter street, from Robey street to California avenue, changed to West Twenty-fifth street.

LAKE.

Ordinance passed April 25, 1892. Dickey street, from Sixty-ninth street to its southern terminus, changed to Eggleston avenue.

Furthermore, I annex to this report a map showing the different railroads entering the City, with their terminal passenger depots within the City limits. Said map also gives the different cable lines, electric and elevated roads as constructed up to date, and a true representation of the park and boulevard system of the City.

Respectfully submitted,

R. A. MANSTEIN,

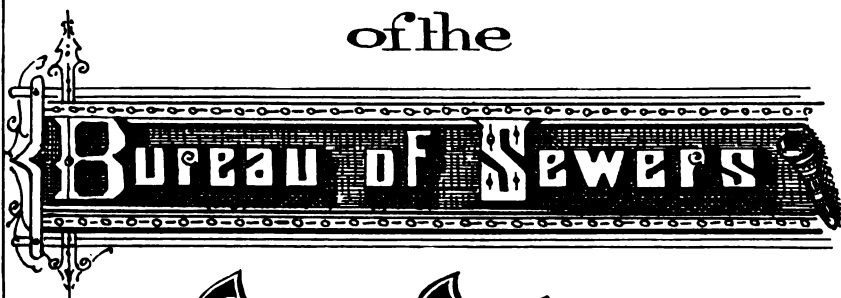
*Superintendent Map Department.*

## LIST OF RAILROADS ENTERING THE CITY OF CHICAGO.

NAME OF RAILROAD.	ABBREVIATION.	LOCATION OF PASSENGER DEPOT.
Atchison, Topeka & Santa Fe.....	A. T. & S. F. (Santa Fe).....	Polk and Dearborn.
Baltimore & Ohio.....	B. & O.....	Harrison and Fifth avenue.
Chicago & Alton.....	C. & Alton.....	Canal, between Madison and Adams.
Chicago & Erie.....	C. & Erie.....	Polk and Dearborn.
Chicago & Eastern Illinois.....	C. & East. Ills.....	Polk and Dearborn.
Chicago & Grand Trunk.....	C. & G. T.....	Polk and Dearborn.
Chicago & North-Western.....	C. & N. W.....	Wells and Kinzie.
Chicago, Burlington & Quincy.....	C. B. & Q.....	Canal, between Madison and Adams.
Chicago, Milwaukee & St. Paul.....	C., M. & St. P.....	Canal, between Madison and Adams.
Chicago, Rock Island & Pacific.....	C., R. I. & P.....	Van Buren and Pacific avenue, near Clark.
Chicago Great Western.....	C. G. W.....	Corner Harrison and Fifth avenue.
Cleveland, Cincinnati, Chicago & St. Louis	C., C., C. & St. L. (Big 4).....	Foot of Twelfth, 22d & 85th st. stations.
Illinois Central.....	Ills. Cent.....	Foot of Twelfth.
Lake Shore & Michigan Southern.....	L., S. & M. S.....	Van Buren and Pacific avenue, near Clark.
Louisville, New Albany & Chicago.....	L., N. A. & C. (Monon).....	Polk and Dearborn.
Michigan Central.....	Mich. Cent.....	Foot of Twelfth.
New York, Chicago & St. Louis.....	N. Y., C. & St. L. (Nickel Plate)	Twelfth and Clark.
Pittsburg, Cincinnati, Chicago & St. Louis	P., C., C. & St. L. (Pan Handle).	Canal, between Madison and Adams.
The Wabash Railroad.....	P., Ft. W. & C.....	Canal, between Madison and Adams.
Winconsin Central Line.....	Wabash.....	Polk and Dearborn.
	Wis. Cent.....	Cor. Harrison and Fifth avenue.



REPORT  
of the



CITY OF CHICAGO





# BUREAU OF SEWERS.

---

HON. J. FRANK ALDRICH,

*Commissioner of Public Works.*

DEAR SIR :—I have the honor to submit herewith the annual report of the Bureau of Sewers for the year ending December 31, 1892, being the seventeenth annual report of this Bureau under the Department of Public Works, and the thirty-seventh yearly statement of the work done in connection with the Sewerage System.

The amount of money expended in the several branches of this department during the year was as follows :

For building new Sewers and Catch-basins .....	\$1,290,017 98
For cleaning Sewers and Catch-basins.....	142,720 52
For repairing Sewers and Catch-basins .....	46,276 67
For adjusting to grade Man-holes and Catch-basins on streets being improved .	70,747 88
For House Drains.....	59,111 99
For appropriated salaries.....	81,681 81
Total .....	\$1,640,506 30

**NEW SEWERS AND CATCH-BASINS BUILT DURING THE YEAR 1892 AND  
THE COST OF SAME.**

LENGTH IN FEET.	SIZE.	AVERAGE CUT.	AVERAGE COST PER FOOT.	AMOUNT.
1,801	9 inches.	9.4	\$ 1 00	\$ 1,801 00
199,413	12 "	8.1	1 14	227,330 82
187,676	15 "	9.0	1 31	245,855 56
8,842	18 "	9.7	1 76	15,561 92
61,562	2 foot.	10.3	2 00 +	123,124 81
26,285	2½ "	10.8	2 41	63,346 85
11,883	3 "	12.4	3 81	45,274 23
4,660	3½ "	10.9	4 05	18,873 00
4,602	4 "	11.0	5 51	25,687 62
2,667	4½ "	13.9	6 23	16,615 41
7,292	5 "	12.0	6 86	50,023 12
6,560	5½ "	12.5	6 92	45,395 20
19,359	6 "	13.2	7 60	147,128 40
6,596	6½ "	14.8	9 74	64,245 04
549,258	. . . . .			\$1,090,262 98

Cost of constructing 3,866 catch-basins .....\$ 173,970 00  
 Cost of excavating 8,595 cubic yards of rock.... 25,785 00  
\$ 199,755 00

Total cost of sewers and catch-basins.....\$1,290,017 98

**TOTAL NUMBER OF MAN-HOLES AND CATCH-BASINS IN PLACE DECEMBER  
31, 1892, IN THE CITY LIMITS.**

CONSTRUCTED DURING THE YEAR.				Total Built during 1892.	Total Built previous to 1892.	Total in place December 31, 1892.
DIVISIONS.	SOUTH.	WEST.	NORTH.			
Catch-basins.....	1,174	2,273	419	3,866	30,468	34,334
Man-holes.....	1,018	2,284	412	3,714	33,726	37,440

## SEWERAGE DEPARTMENT.

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LENGTH AND SIZE OF SEWERS CONSTRUCTED IN THE DIFFERENT WARDS IN THE CITY  
DURING THE YEAR 1892.

WARDS.	6½ Feet.	6 Feet.	5½ Feet.	5 Feet.	4½ Feet.	4 Feet.	3½ Feet.	3 Feet.	2½ Feet.	2 Feet.	18 Feet.	15 Feet.	12 Feet.	9 Feet.	TOTAL.
4th.....													1,252		1,252
5th.....													1,031		1,031
6th.....									1,288	118			4,984		8,011
10th.....							1,290	1,355	3,639	12,554			52,962		101,272
13th.....										666			15,346		24,443
18th.....				908		330				804			10,981		16,769
14th.....						1,906		3,381	2,161	7,934			15,195		42,979
15th.....									4,428	6,080			23,444		50,650
20th.....													1,355		1,355
21st.....													1,099		1,099
24th.....												250			250
25th.....										44			7,879		11,657
26th.....									710	657			23,356		42,039
27th.....	2,660	7,746	4,000	2,825	1,000			663	2,720	7,310			81,527		60,450
28th.....				908		1,000		5,417	6,673	5,687			2,663		30,279
29th.....									636	49			8,014		6,077
30th.....										3,029			11,210		37,540
31st.....										4,742	2,225		9,042	330	23,387
32d.....			1,488			688	335	332	600	664			4,618		13,450
33d.....	3,986	9,410	1,072				1,332	885	1,572	4,618			3,417		29,339
34th.....				2,650	1,667	1,338			1,824	6,675			5,943	1,471	45,929
TOTAL.	6,596	19,359	6,560	7,292	2,667	4,662	4,660	11,883	26,285	61,562	8,842	187,676	190,413	1,801	549,268

104.026 miles.

**TOTAL COST FOR THE CONSTRUCTION OF SEWERS AND CATCH-BASINS  
AND MAINTAINING SAME SINCE THE ESTABLISHMENT OF THE  
SEWERAGE SYSTEM IN 1855 TO JANUARY 1, 1893.**

Year.	Lineal feet of Sewers built.	No. of Catch- Basins built.	No. of Man- holes built.	No. of House Drains put in.	Cost of Clean- ing Sewers and Catch-Basins.	Street Inter- sections and Repairs of Sewers.	Cost of Construction.
Previous to 1861.	283,586	1,174	2,102	2,194	\$ 5,619 48	No amts. found on reports.	\$ 665,188 46
1861.....	2,826	18	33	243	1,715 60	\$ 2,951 76	3,617 31
1862.....	15,676	72	66	365	4,897 24	3,024 07	57,036 42
1863.....	39,605	192	204	586	5,005 40	2,058 11	169,527 38
1864.....	25,021	189	183	512	9,417 81	4,597 63	87,221 48
1865.....	29,948	223	168	1,288	13,818 07	7,493 56	137,643 02
1866.....	48,127	327	271	3,732	28,445 16	7,773 65	225,564 53
1867.....	89,681	418	555	3,703	26,540 81	9,581 42	416,730 51
1868.....	47,841	480	293	3,261	26,954 06	11,278 08	197,152 92
1869.....	139,705	771	928	3,979	26,015 68	7,527 16	654,141 26
1870.....	78,166	626	468	5,187	21,464 30	10,954 74	258,664 70
1871.....	50,716	277	357	3,093	17,415 46	42,557 72	153,295 36
1872.....	47,342	245	341	1,435	21,484 16	16,975 40	173,255 76
1873.....	146,702	897	1,015	4,691	31,229 27	29,781 97	450,222 90
1874.....	222,322	1,054	1,474	6,292	36,884 57	21,996 72	587,507 38
1875.....	120,971	958	789	3,365	32,098 23	28,107 40	342,932 89
1876.....	15,248	155	75	1,172	29,345 41	19,803 29	79,545 28
1877.....	64,666	363	431	1,822	35,763 33	16,959 44	291,829 63
1878.....	88,031	492	603	1,544	25,704 37	19,259 49	37,264 97
1879.....	145,381	820	1,043	2,953	29,283 67	10,649 69	130,840 50
1880.....	79,128	271	554	4,196	25,561 48	25,068 11	92,544 08
1881.....	132,076	548	917	4,810	34,512 15	30,967 89	452,310 06
1882.....	98,515	792	725	5,677	33,969 35	26,618 05	224,450 16
1883.....	75,364	835	497	5,963	34,749 74	25,140 81	232,084 33
1884.....	101,547	751	654	5,957	43,678 03	37,893 29	258,020 91
1885.....	118,647	796	854	6,325	46,532 18	45,333 02	203,188 03
1886.....	103,193	734	723	7,441	51,110 46	50,707 64	177,647 24
1887.....	90,584	756	605	8,100	50,264 65	43,789 60	186,496 98
1888.....	104,903	816	674	8,152	52,422 41	53,782 97	228,567 57
1889.....	171,023	1,351	1,190	4,303	61,503 01	63,459 25	350,234 54
Annexed Districts previous to 1890. }	993,573	6,102	8,620	Estima- ted cost of const- ruction, and cost of mainten. not known. }	.....	.....	2,614,224 75
1890.....	379,203	2,986	2,604	9,279	107,873 34	83,388 08	826,718 67
1891.....	†546,918	3,976	3,736	11,312	123,620 44	95,906 75	1,532,990 44
1892.....	549,258	3,866	3,714	12,562	142,720 52	70,747 83	1,290,017 98
Total.....	† 5,245,493	34,334	*37,466	145,441	\$1,237,679 84	\$926,143 59	\$13,788,678 40

†Of this amount, 5,897 feet has been taken up and replaced by sewers of larger sizes, leaving in place January 1, 1893, 5,239,596 feet, or 992,346 miles.

Of this amount 26 man-holes have been abandoned, leaving in place January 1, 1893, 37,440.

Of the above 902,346 miles 422,455 miles are constructed of brick and 569,891 miles are of vitrified clay pipe.

LENGTH AND INTERIOR DIAMETER OF SEWERS IN PLACE, DECEMBER 31, 1892, IN THE DIFFERENT  
WARDS OF THE CITY.

WARDS.	9 Feet.	8 Feet.	7 Feet.	6 Feet.	5 Feet.	4 Feet.	3 Feet.	2 Feet.	20 Inch.	18 Inch.	15 Inch.	12 Inch.	9 Inch.	6 Inch.	TOTAL.
1st.															121,272
2d.															96,110
3d.															98,265
4th.															122,822
5th.															131,223
6th.															216,700
7th.															75,244
8th.															75,244
9th.															94,884
10th.															357,166
11th.															115,770
12th.															851,039
13th.															236,084
14th.															328,657
15th.															70,046
16th.															83,340
17th.															79,100
18th.															99,797
19th.															71,425
20th.															78,001
21st.															102,165
22d.															277,288
23d.															227,515
24th.															83,336
25th.															117,719
26th.															289,459
27th.															223,113
28th.															286,140
29th.															73,386
30th.															161,846
TOTAL	22,700	13,102	11,936	26,063	14,073	67,540	28,923	121,032	3,833	111,265	178,039	92,549	3,338	173,661	1,890,142
															5,239,566

SEWERS CONSTRUCTED DURING THE YEAR 1892 IN THE  
WEST DIVISION.

STREET.	FROM	TO	Diam. in feet.	Length in feet.
Alice place.....	Western avenue	Westward.....	1	299
Albany avenue.....	Twenty second.....	Twenty-fourth.....	2	1,331
Albany avenue.....	Twenty-fourth.....	Twenty-sixth.....	1	1,320
Armitage avenue.....	Keeney avenue.....	Columbia avenue.....	2½	745
Augusta.....	Robey.....	Hoyne avenue.....	4	635
Augusta.....	Hoyne avenue.....	Leavitt.....	3½	661
Augusta.....	Leavitt.....	Oakley avenue.....	3	673
Augusta.....	Oakley avenue.....	Western avenue.....	2½	691
Augusta.....	Central Park avenue.....	Lawndale avenue.....	2	662
Augusta.....	Lawndale avenue.....	Hamlin avenue.....	1½	664
Avers avenue.....	550 ft. N. of Ogden ave.	Sixteenth.....	1	1,504
Avers avenue.....	Kinzie.....	Chicago avenue.....	1½	2,630
Avondale avenue.....	Belmont avenue.....	Wallace.....	2	690
Ballou.....	North avenue.....	Armitage avenue.....	1½	2,548
Beach.....	Kedzie avenue.....	Central Park avenue.....	1	2,659
Birchell avenue.....	Fullerton avenue.....	Diversey avenue.....	1½	2,415
Bismark.....	California avenue.....	Rockwell.....	1	1,197
Bonney avenue.....	Ogden avenue.....	Douglas Park boulevard	1	3,587
California avenue.....	Fullerton avenue.....	Humboldt boulevard.....	1½	1,181
California avenue.....	Elston avenue.....	Center.....	2	546
California avenue.....	Center.....	Avondale avenue.....	1½	1,172
California avenue.....	Humboldt avenue.....	Evergreen.....	1½	570
California avenue.....	Avondale avenue.....	Evergreen.....	2	1,889
Carroll avenue.....	Homan avenue.....	Eastward.....	1	351
Carroll avenue.....	West Forty-fourth	Westward.....	1	300
Catalpa place.....	Fullerton avenue.....	McGovern.....	1½	498
Central Park avenue.....	North avenue.....	Armitage avenue.....	1½	2,557
Central Park avenue.....	North avenue.....	Beach.....	2	944
Central Park avenue.....	Beach.....	Weage.....	1½	827
Central Park avenue.....	Division.....	Grand avenue.....	2	200
Central Park avenue.....	Division.....	Frederick.....	1½	1,179
Central Park avenue.....	Grand avenue.....	Augusta.....	3	1,185
Central Park avenue.....	Augusta.....	Glenview avenue.....	2½	666
Central Park avenue.....	Glenview avenue.....	Chicago avenue.....	1½	666
S. S. Central Park blvd.	St. Louis avenue.....	Drake avenue.....	1½	835
S. S. Central Park blvd.	Drake avenue.....	Central Park avenue.....	1	875
Clifton avenue.....	Douglas Park blvd.	Ogden avenue.....	1	2,630
Clifton avenue.....	Fullerton avenue.....	Diversey avenue.....	1½	2,415
Courtland.....	Clarkson avenue.....	Westward.....	1	290
Corvin place.....	Moore.....	Southward.....	1	346
Dickey.....	Central Park avenue.....	East of St. Louis avenue	1	980
Dickey.....	Kedzie avenue.....	West of Sheridan avenue	1	1,068
Division.....	Tinkham avenue.....	Ridgeway avenue.....	2	650
Division.....	Ridgeway avenue.....	Hamlin avenue.....	1½	530
Diversey avenue.....	Kedzie avenue.....	Central Park avenue.....	6½	2,660
Diversey avenue.....	Central Park avenue.....	West Fortieth.....	6	2,665
N. S. Douglas Park blvd.	Central Park avenue.....	Lawndale avenue.....	2	665
N. S. Douglas Park blvd.	Lawndale avenue.....	Westward.....	1½	447
N. S. Douglas Park blvd.	Central Park avenue.....	St. Louis avenue.....	1½	660
N. S. Douglas Park blvd.	St. Louis avenue.....	Spaulding avenue.....	1	1,525
N. S. Douglas Park blvd.	Kedzie avenue.....	Spaulding avenue.....	1½	668
S. S. Douglas Park blvd.	Trumbull avenue.....	Turner avenue.....	1½	667
S. S. Douglas Park blvd.	Turner avenue.....	Spaulding avenue.....	1	669
S. S. Douglas Park blvd.	Central Park avenue.....	St. Louis avenue.....	1½	669
S. S. Douglas Park blvd.	St. Louis avenue.....	Eastward.....	1	669
S. S. Douglas Park blvd.	Central Park avenue.....	Bonney avenue.....	1½	669
E. S. Douglas Park blvd.	Twelfth.....	Southward.....	1	669

## WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in feet.	Length in feet.
E. S. Douglas Park blvd.	Twenty-second	Hinman	1½	300
E. S. Douglas Park blvd.	Hinman	Twenty-first	1	730
E. S. Douglas Park blvd.	Twentieth	Twenty-first	1½	235
Douglas Park place.	Washtenaw avenue	Eastward	1	260
Drake avenue.	Central Park boulevard	Kinzie	1	525
Drake avenue.	Ohio	Chicago avenue	1½	1,342
Drummond.	Augusta	Thomas	1½	657
Drummond.	Thomas	Division	1	613
Edbrook place.	Western avenue	Westward	1	295
Eighteenth.	Avers avenue	Bonney avenue	1½	700
Eighteenth.	Homan avenue	St. Louis avenue	2	670
Eighteenth.	St. Louis avenue	Clifton Park avenue	1½	335
Eighteenth.	Rockwell	Eastward	1½	525
Eighteenth.	Rockwell	Washtenaw avenue	2	670
Eighteenth.	Washtenaw avenue	Fairfield avenue	1½	335
Eighteenth.	Fairfield avenue	California avenue	1	312
Eighteenth.	Lawndale avenue	Central Park avenue	1½	700
Elston avenue.	Belmont avenue	Laurel	2½	1,119
Elston avenue.	Laurel	Maplewood avenue	2	1,468
Elston avenue.	Maplewood avenue	Western avenue	2½	1,329
Elston avenue.	Diversey avenue	Southeast	2½	980
Elston avenue.	Snow	Northwest	2½	1,000
Elston avenue.	1,000 ft. N. W. Snow	Northwest	2	555
Emery	Central Park avenue	Lawndale avenue	2	663
Emery	Lawndale avenue	Hamlin avenue	1½	664
Erie.	Western avenue	Seymour	1½	636
Fairfield avenue	Iowa	Chicago avenue	1	609
Fairfield avenue	Sixteenth	Twenty-second	1	2,587
Ferdinand.	Robey	Hoyne avenue	1	587
Fillmore	West Fortieth	Douglas Park boulevard	1½	1,362
Fifteenth.	Turner	Trumbull avenue	1½	730
Fifteenth.	Central Park avenue	Clifton Park avenue	2	802
Fifteenth	Clifton Park avenue	St. Louis avenue	1½	335
Fifteenth	Central Park avenue	Bonney avenue	1½	1,000
Forrest avenue.	Diversey avenue	Humboldt boulevard	1½	1,231
West Fortieth.	Kinzie	Huron	5	1,817
West Fortieth.	Huron	Augusta	4	2,001
West Fortieth.	Augusta	Division	8	1,327
West Fortieth place.	Park avenue	Randolph	1	410
West Forty-first	Park avenue	Lake	2	387
West Forty-first	Lake	Kinzie	1½	759
West Forty-second	Park avenue	Lake	2	480
West Forty-second	Lake	Kinzie	1½	690
West Forty-second	Harrison	Northward	1½	600
West Forty-third	Park avenue	Lake	2	490
West Forty-third	Lake	Kinzie	1½	685
West Forty-third	Harrison	Owasco	1½	1,032
West Forty-fourth	Park avenue	Lake	2	553
West Forty-fourth	Lake	Kinzie	1½	573
West Forty-fourth	Harrison	Owasco	1½	1,031
West Forty-fourth	Owasco	Jackson	1	326
West Forty-fifth	Park avenue	Lake	2	619
West Forty-fifth	Lake	Kinzie	1½	507
West Forty-fifth place	Harrison	Owasco	1½	1,032
West Forty-fifth place	Owasco	Jackson	1	325
Flournoy.	West Fortieth	Douglas Park boulevard	1	1,358
Fulton.	Columbia place	Eastward	1	255



## WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in feet.	Length in feet.
Francisco	Augusta	Chicago avenue	1½	1,310
Glenview avenue	Central Park avenue	Lawndale avenue	2	664
Girard	Hervey	Northward	1	294
Grand avenue	695 ft. E. of Washtenaw avenue	Seymour	2	804
Grand avenue	Seymour	Western avenue	1	753
Grand avenue	Division	Hamlin avenue	3½	1,042
Grand avenue	Hamlin avenue	Springfield avenue	3	759
Grand avenue	Springfield avenue	West Fortieth	2½	804
Grenshaw	West Fortieth	Eastward	1½	1,000
Grenshaw	St. Louis avenue	Eastward	1	508
Grenshaw	Central Park avenue	St. Louis avenue	1½	675
Hamlin avenue	750 ft. N. of Nineteenth	Sixteenth	2½	665
Hamlin avenue	Fulton	Kinzie	1	390
Harrison	Central Park avenue	St. Louis avenue	2	666
Harrison	St. Louis avenue	Trumbull avenue	1½	865
Harrison	Trumbull avenue	Homan avenue	1	312
Harrison	West Fortieth	West Forty-second	3	1,360
Harrison	West Forty-second	West Forty-fifth	2½	2,000
Harrison	West Forty-fifth	Tilton	2	470
Harrison	Tilton	West Forty-sixth	1½	185
Harrison	West Fortieth	Douglas Park boulevard	1½	1,853
Hinman	Douglas Park boulevard	Eastward	1	580
Hinman	Washtenaw avenue	Rockwell	1	670
Howard avenue	North avenue	Humboldt boulevard	1½	3,904
Homan avenue	Madison	Jackson	1	1,330
Homan avenue	Harrison	Northward	1	1,105
Homan avenue	Ohio	Chicago avenue	1½	1,334
Homan avenue	Dickey	Beech	2	848
Homan avenue	Sixteenth	Douglas Park boulevard	2	1,240
Homan avenue	Twenty-second	Twenty-fourth	2½	1,330
Homan avenue	Twenty-fourth	Twenty-sixth	2	1,359
Homan avenue	Douglas Park boulevard	Goodwin	1½	690
Homan avenue	Goodwin	Twelfth	1	870
Hoffman avenue	Diversey avenue	Franklin	1½	650
Hoffman avenue	Franklin	Elston avenue	1	615
Humboldt	Diversey avenue	Humboldt boulevard	1½	1,240
S. S. Humboldt blvd.	Western avenue	Milwaukee avenue	1	4,918
N. S. Humboldt blvd.	Western avenue	Logan square	1	4,645
Hull	Twelfth	Fillmore	1	580
Irving avenue	Thirteenth	Fourteenth	1	600
Irving Park boulevard	Chicago river	Michigan	6	5,059
Irving Park boulevard	Michigan	West Fortieth	5½	4,000
Irving Park boulevard	W. Fortieth	Hunting	5	2,825
Irving Park boulevard	Hunting	Milwaukee avenue	4½	1,000
Jackson	W. Fortieth	West Forty-second	3	1,370
Jackson	W. Forty-second	West Forty-fifth	2½	1,990
Jackson	W. Forty-fifth	West Forty-sixth	1½	655
Jefferson court	Western avenue	Perry avenue	1	1,010
Keeney avenue	North avenue	Humboldt boulevard	1½	3,918
Kedzie avenue	North avenue	Beach	2	950
Kedzie avenue	Beach	Weage	1½	834
Kedzie avenue	Twenty-second	Twenty-fourth	3½	1,390
Kedzie avenue	Twenty-fourth	Twenty-sixth	3	1,355
Kedzie avenue	Diversey avenue	Logan square	2	1,166
Kedzie avenue	Chicago River	Northward	2½	500
Kimball avenue	North avenue	Armitage avenue	1½	2,555
Kinzie	West Forty-fifth	West Forty-sixth	1	635

## WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in feet.	Length in feet.
Kroll	Moore	Southward	1	337
Laurel	Diversey avenue	Humboldt boulevard	1	1,285
Lawndale avenue	Twelfth	Ogden avenue	1	4,345
Lawndale avenue	Huron	Chicago avenue	1 1/4	671
Lawndale avenue	Division	Augusta	1	1,333
Lawndale avenue	Grand avenue	William	2	420
Lawndale avenue	William	Fredrick	1	661
Laughton	Rockwell	Eastward	1 1/4	645
Laughton	California avenue	Washtenaw avenue	1	625
Lexington	West Fortieth	Douglas Park boulevard	1 1/4	1,360
Linden	Diversey avenue	Humboldt boulevard	1 1/4	1,238
Lincoln	Blue Island avenue	Moore	1	400
N. S. Logan square	Kedzie avenue	Eastward	1	493
Madison	West Fortieth street	West Forty-second	3	1,344
Madison	West Forty-second	West Forty-fourth	2 1/2	1,337
Madison	West Forty-fourth	West Forty-sixth	2	1,298
Maplewood avenue	Diversey avenue	Humboldt boulevard	1 1/4	1,232
McAuley avenue	Armitage avenue	North avenue	1 1/4	2,572
McGovern	Humboldt boulevard	Eastward	1	1,088
Mead	North avenue	Armitage avenue	1 1/4	2,557
Mitchell	North avenue	Bloomington road	1 1/4	1,254
Millard avenue	Twelfth	Ogden avenue	1	4,246
Milwaukee avenue	Belmont avenue	West Fortieth	2 1/2	1,175
Milwaukee avenue	West Fortieth	Warner avenue	2	3,006
Milwaukee avenue	Diversey avenue	Southeast	2	563
Milwaukee avenue	Kedzie avenue	Northwest	1 1/4	1,113
Milwaukee avenue	Diversey avenue	Wisner	2 1/2	800
Milwaukee avenue	Wisner	Central Park avenue	2	1,000
Milwaukee avenue	Central Park avenue	Northwest	1 1/4	683
Milwaukee avenue	Belmont avenue	Southeast	2	1,639
Moore	Western avenue	Westward	1 1/4	482
Moore	Lincoln	Corwin place	1	400
Moore	Corwin place	Robey	1 1/4	249
Moore	Rockwell	Washtenaw avenue	1 1/4	665
Moore	Rockwell	Eastward	1	605
Moore	California avenue	Washtenaw avenue	1	642
Myrtle	Diversey avenue	Humboldt boulevard	1 1/4	1,236
Nineteenth	Avers avenue	Bonney avenue	1 1/4	700
Nineteenth	Washtenaw avenue	Rockwell	1 1/4	671
S. S. Ogden avenue	West Fortieth	Springfield avenue	1	714
N. S. Ogden avenue	West Fortieth	Eastward	1 1/4	955
Oglesby avenue	North avenue	Armitage avenue	1 1/4	2,558
Owasco	West Forty-third	West Forty-fourth	1	667
Park avenue	West Fortieth	West Forty-second	3	1,343
Park avenue	West Forty-second	West Forty-fourth	2 1/2	1,346
Park avenue	West Forty-fourth	West Forty-sixth	2	1,304
Park avenue	West Fortieth	Hamlin avenue	1 1/4	1,310
Palmer avenue	California avenue	Humboldt boulevard	1	1,167
Parmalee	Western avenue	Eastward	1	475
Palatine	Central park avenue	St. Louis avenue	1 1/4	660
Palatine	St. Louis avenue	Homan avenue	1	670
Phinney avenue	Scott	Northward	1	270
Phinney avenue	Ohio	Chicago avenue	1 1/4	1,326
Pierce	Kedzie avenue	Central park avenue	1	2,659
Polk	West Fortieth	Douglas park boulevard	1 1/4	1,359
Randolph	Albany avenue	Westward	1	396
Rebecca	Rockwell	Washtenaw avenue	1 1/4	660

## WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in feet.	Length in feet.
Rebecca .....	Washtenaw avenue .....	California avenue .....	1	652
Richmond avenue .....	Milwaukee avenue .....	Diversey avenue .....	1½	2,223
Rice place .....	West Twenty-second .....	Southward .....	1	490
Ridgeway avenue .....	Division .....	Augusta .....	1	1,341
Ridgeway avenue .....	William .....	Fredrick .....	1	664
Sawyer avenue .....	Douglas park boulevard .....	Twelfth .....	1	1,190
Scott .....	Spaulding avenue .....	Homan avenue .....	1	653
Seventeenth .....	Rockwell .....	Washtenaw avenue .....	1½	671
Seventeenth .....	Western avenue .....	Westward .....	1½	520
Sheridan avenue .....	Kinzie .....	Chicago avenue .....	1½	2,617
Sixteenth .....	Avers avenue .....	Bonney avenue .....	1½	700
Sixteenth .....	Clifton park avenue .....	Lawndale avenue .....	1½	1,000
Sixteenth .....	Homan avenue .....	Trumbull avenue .....	2	333
Sixteenth .....	Trumbull avenue .....	St. Louis avenue .....	1½	365
Sheridan avenue .....	North avenue .....	Beach .....	2	955
Sheridan avenue .....	Beach .....	Weage .....	1½	325
Spaulding avenue .....	Van Buren .....	Scott .....	1½	267
Spaulding avenue .....	Scott .....	Jackson .....	1	389
Spaulding avenue .....	Ogden avenue .....	Twelfth .....	1	8,115
Springfield avenue .....	Ohio .....	Chicago avenue .....	1½	1,348
Stanley terrace .....	Van Buren .....	Northward .....	1	390
St. Louis avenue .....	North avenue .....	Beach .....	2	953
St. Louis avenue .....	Beach .....	Weager .....	1½	324
St. Louis avenue .....	Douglas park boulevard .....	Ogden avenue .....	1	2,540
Taylor .....	Albany avenue .....	Sacramento avenue .....	1½	635
Taylor .....	Sacramento avenue .....	Francisco .....	1	674
Taylor .....	Francisco .....	California avenue .....	1½	660
Thomas .....	Milwaukee avenue .....	Diversey avenue .....	1½	1,980
Thirteenth .....	Kedzie avenue .....	Homan avenue .....	2	1,300
Tinkham avenue .....	Ohio .....	Kinzie .....	1½	1,284
Tinkham avenue .....	Grand avenue .....	William .....	1½	661
Tinkham avenue .....	William .....	Fredrick .....	1	607
Tinkham avenue .....	Division .....	Augusta .....	1	1,323
Tripp avenue .....	North avenue .....	Humboldt avenue .....	1½	3,920
Troy .....	Jackson .....	Van Buren .....	1	457
Troy .....	Twenty-second .....	Twenty-third .....	1½	632
Troy .....	Twenty-third .....	Twenty-sixth .....	1	1,980
Trumbull avenue .....	Douglas park boulevard .....	Ogden avenue .....	1	2,380
Trumbull avenue .....	Harrison .....	Northward .....	1	960
Turner avenue .....	Douglas park boulevard .....	Sixteenth .....	1	1,240
Turner avenue .....	Thirteenth .....	Douglas park boulevard .....	1½	575
Turner avenue .....	Twelfth .....	Thirteenth .....	1	615
Twentieth .....	Douglas park boulevard .....	California avenue .....	1	875
Twentieth .....	Washtenaw avenue .....	Rockwell .....	1½	671
Twenty-first .....	Rockwell .....	Eastward .....	1	645
Twenty-second .....	Hamlin avenue .....	Springfield avenue .....	1½	662
Twenty-third .....	Homan avenue .....	Trumbull avenue .....	2	330
Twenty-third .....	Trumbull avenue .....	St. Louis avenue .....	1½	365
Twenty-fourth .....	Kedzie avenue .....	Troy .....	1½	871
Twenty-fourth .....	Whipple .....	Albany avenue .....	1½	370
Twenty-fifth .....	Kedzie avenue .....	Albany avenue .....	2	670
Twenty-fifth .....	Albany avenue .....	Whipple .....	1½	330
Twenty-fifth .....	Whipple .....	Sacramento avenue .....	1	342
Twenty-fifth .....	California avenue .....	Francisco .....	2	669
Twenty-fifth .....	Francisco .....	Sacramento avenue .....	1½	662
Twenty-sixth .....	California avenue .....	Washtenaw avenue .....	2	660
Twenty-sixth .....	Washtenaw avenue .....	Rockwell .....	1½	673

## SEWERAGE DEPARTMENT.

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## WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in feet.	Length in feet.
Twenty-sixth.....	Rockwell.....	Eastward.....	1	299
Twenty-sixth.....	West Fortieth.....	Avers avenue.....	1½	1,000
Twenty-sixth.....	Avers avenue.....	Eastward.....	1	278
Twenty-sixth.....	Kedzie avenue.....	Albany avenue.....	2	669
Twenty-sixth.....	Albany avenue.....	Whipple street.....	1½	327
Twenty-sixth.....	Whipple.....	Sacramento avenue.....	1	335
Twenty-sixth.....	California avenue.....	Francisco.....	2	669
Twenty-sixth.....	Francisco.....	Sacramento avenue.....	1½	662
Twenty-sixth.....	Homan avenue.....	Westward.....	1½	697
Van Buren.....	Central park avenue.....	Trumbull avenue.....	1½	1,017
Van Buren.....	Central park avenue.....	Eastward.....	1	120
Van Horn.....	Washtenaw avenue.....	Rockwell.....	1½	671
Wallace.....	Diversey avenue.....	Humboldt boulevard.....	1½	1,236
Wallace.....	Avondale avenue.....	Center.....	1½	230
Wallace.....	Center.....	Garden.....	1	679
Wallace.....	Garden.....	Franklin.....	1½	658
Wallace.....	Franklin.....	Diversey avenue.....	2	669
Washington.....	West Fortieth.....	Hamlin Avenue.....	1½	1,310
Warren avenue.....	West Fortieth.....	Hamlin avenue.....	1½	1,310
Washtenaw avenue.....	Sixteenth.....	Northward.....	1	500
Washtenaw avenue.....	Twenty-second.....	Hinman.....	1½	832
Washtenaw avenue.....	Hinman.....	Sixteenth.....	1	2,236
Western avenue.....	S. branch Chicago river.....	Southward.....	2½	1,134
Western avenue.....	1134 S. S. branch Chicago river.....	Southward.....	2	1,017
Western avenue.....	Thomas.....	Augusta.....	1½	652
Western avenue.....	Augusta.....	Iowa.....	2	525
Whipple.....	Twenty second.....	Twenty-third.....	1½	635
Whipple.....	Twenty-third.....	Twenty-sixth.....	1	1,985
Willmot.....	Hoyne avenue.....	Northwest.....	1	415
William.....	Ridgeway avenue.....	Lawndale avenue.....	1½	330
Total.....				321,968

SEWERS CONSTRUCTED DURING THE YEAR 1892 IN THE  
SOUTH DIVISION.

STREET.	FROM	TO	Diam. in feet.	Length in feet.
Alley E. of Calumet avenue . . .	Forty-seventh . . . . .	S. of Forty-eighth . . . . .	1	822
Alley S. of Fifty-fifth . . . . .	Center avenue . . . . .	Aberdeen . . . . .	1	658
Alley N. of Fifty-fifth . . . . .	Alley W. of Halsted . . . . .	Morgan . . . . .	1	1,094
Alley N. of Fifty-fourth court . . .	Wallace . . . . .	Wright . . . . .	1 1/4	682
Alley N. of Fifty-fourth court . . .	Wright . . . . .	Eastward . . . . .	1	343
Alley S. of Jackson park terrace . .	Stony Island avenue . . . . .	Westward . . . . .	3/4	183
Alley W. of Drexel avenue . . . . .	Sixty-third . . . . .	Sixty-fifth . . . . .	3/4	1,288
Aberdeen . . . . .	Sixtieth . . . . .	Sixty-second . . . . .	1 1/4	1,329
Aberdeen . . . . .	Sixty-second . . . . .	Sixty-third . . . . .	1	660
Aberdeen . . . . .	Fifty-ninth . . . . .	Sixtieth . . . . .	1	663
Aberdeen . . . . .	Forty eighth . . . . .	Forty-ninth . . . . .	1 1/4	800
Aberdeen . . . . .	Forty ninth . . . . .	Fiftieth . . . . .	1	528
Aberdeen . . . . .	Fiftieth . . . . .	Fifty-second . . . . .	1 1/4	1,331
Aberdeen . . . . .	Fifty-second . . . . .	Fifty-fourth . . . . .	1	1,373
Atlantic . . . . .	Forty-third . . . . .	Layton . . . . .	1 1/4	953
Atlantic . . . . .	Layton . . . . .	Forty-fifth . . . . .	1	400
Armour avenue . . . . .	Forty-fifth court . . . . .	Forty-sixth . . . . .	1 1/4	318
Armour avenue . . . . .	Forty-fifth court . . . . .	Northward . . . . .	1	102
Bissell avenue . . . . .	Seventy-third . . . . .	Seventy-fourth . . . . .	2	665
Bissell avenue . . . . .	Seventy-fourth . . . . .	Seventy-fifth . . . . .	1 1/4	665
Boulevard place . . . . .	St. Lawrence avenue . . . . .	E. of Vincennes avenue . . . . .	1	435
Calumet avenue . . . . .	Thirty-seventh . . . . .	Southward . . . . .	1	170
Calumet avenue . . . . .	Fifty-first . . . . .	Fifty-second . . . . .	1 1/4	650
Calumet avenue . . . . .	Fifty-second . . . . .	Fifty-fourth . . . . .	1	1,345
Calumet avenue . . . . .	Fifty-fourth . . . . .	Fifty-fifth . . . . .	1 1/4	650
Carpenter . . . . .	Fifty-ninth . . . . .	Sixty-first . . . . .	1	1,330
Carpenter . . . . .	Sixty-first . . . . .	Sixty-second . . . . .	1 1/4	666
Carpenter . . . . .	Sixty-second . . . . .	Sixty-third . . . . .	1	666
Carpenter . . . . .	Sixty-third . . . . .	Sixty-fourth . . . . .	1 1/4	632
Carpenter . . . . .	Sixty-fourth . . . . .	Sixty-fifth . . . . .	1	660
Clinton . . . . .	One Hundred and Nineteenth . . . . .	One Hundred and Twenty-first . . . . .	1	1,355
Cottage Grove avenue . . . . .	Fifty-first . . . . .	Fifty-second . . . . .	2	664
Cottage Grove avenue . . . . .	Fifty-second . . . . .	Fifty-third . . . . .	1 1/4	665
Cottage Grove avenue . . . . .	Fifty-third . . . . .	Fifty-fourth . . . . .	1	634
Cottage Grove avenue . . . . .	Fifty-sixth . . . . .	Fifty-seventh . . . . .	2	665
Cottage Grove avenue . . . . .	Fifty-seventh . . . . .	Fifty-eighth . . . . .	1 1/4	664
Cottage Grove avenue . . . . .	Fifty eighth . . . . .	Fifty-ninth . . . . .	1	636
Dearborn . . . . .	Fifty-ninth . . . . .	Southward . . . . .	1	510
Dexter avenue . . . . .	Wallace . . . . .	Wright . . . . .	1	698
Dickey . . . . .	Seventy-first . . . . .	Seventy-second . . . . .	1	622
Eighty-fifth . . . . .	Halsted . . . . .	Westward . . . . .	1 1/4	200
Ellis avenue . . . . .	Fifty-seventh . . . . .	Fifty-ninth . . . . .	2	1,337
Emerald avenue . . . . .	Fifty fourth . . . . .	Northward . . . . .	1 1/4	112
Emerald avenue . . . . .	Fifty-sixth . . . . .	Fifty-seventh . . . . .	1	656
Emerald avenue . . . . .	Sixty-fifth . . . . .	Sixty-sixth . . . . .	1	634
Emerald avenue . . . . .	One Hundred and Nineteenth . . . . .	One Hundred and Twenty-first . . . . .	1	1,141
Fisk . . . . .	Springer . . . . .	Southward . . . . .	1 1/4	542
Fisk . . . . .	542 feet south of Springer . . . . .	Thirty-fourth . . . . .	1	560
Forty-third . . . . .	Paulina . . . . .	Wood . . . . .	2 1/2	636
Forty-seventh . . . . .	Ellis avenue . . . . .	Drexel avenue . . . . .	1 1/4	572
Forty-eighth . . . . .	Calumet avenue . . . . .	Eastward . . . . .	1 1/4	178
Forty-eighth . . . . .	Cottage Grove avenue . . . . .	Eastward . . . . .	1 1/4	331
Forty-eighth . . . . .	Ellis avenue . . . . .	Drexel avenue . . . . .	1 1/4	560
Forty-eighth . . . . .	Evans avenue . . . . .	Westward . . . . .	1	145
Forty-ninth . . . . .	Vincennes avenue . . . . .	Westward . . . . .	1 1/4	470
Fiftieth . . . . .	Halsted . . . . .	Peoria . . . . .	1 1/4	620
Fiftieth . . . . .	Peoria . . . . .	Morgan . . . . .	1	663

## SOUTH DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in feet.	Length in feet.
Fiftieth	Ashland avenue	Loomis	2	1,320
Fiftieth	Loomis	Ada	1 1/4	330
Fiftieth	Ada	Throop	1	330
Fiftieth	Throop	Center avenue	1 1/4	670
Fiftieth	Cottage Grove avenue	Vincennes avenue	0	1,920
Fiftieth	Champlain avenue	Langley avenue	1	445
Fifty-third	Lake Michigan	Lake avenue	2 1/2	600
Fifty-fourth court	Emerald avenue	Westward	1	178
Fifty-fourth court	Emerald avenue	Eastward	1	175
Fifty-fourth court	Halsted	Eastward	1 1/4	175
Fifty-fourth court	175 ft. east of Halsted	Eastward	1	343
Fifty-sixth	Center avenue	Carpenter	2	995
Fifty-sixth	Carpenter	Morgan	1	344
Fifty-ninth	Halsted	Union avenue	2	630
Frazier	Forty-seventh	Forty-ninth	1 1/4	1,310
Green	Fifty-ninth	Sixty-first	1	1,325
Green	Sixty-first	Sixty-second	1 1/4	692
Green	Sixty-third	Sixty-second	1	635
Green	Sixty-eighth	Sixty-ninth	1 1/4	666
Green Bay avenue	Harbor avenue	Ninety-first	1	215
Grace avenue	Sixty-third	South of Sixty-fourth	2	1,042
Gross avenue	Ashland avenue	Northwest	1	780
Harbor avenue	Green Bay avenue	Eastward	1 1/4	116
Harbor avenue	Green Bay avenue	Mackinaw avenue	1	451
Harvard	Seventy third	Seventy-fifth	1	1,307
Halsted	Calumet River	One Hundred and Twentieth	1 1/2	6,617
Halsted	One Hundred and Twentieth	One Hundred and Nineteenth	1	636
Houston avenue	Eighty-ninth	Ninetieth	1 1/4	665
Houston avenue	Ninetieth	Alley N. of Ninety-first	1	500
Hoynes avenue	Thirty-fifth	Thirty-seventh	2 1/2	1,288
Honore	Seventy-first	Seventy-third	1	1,359
Jefferson	One Hundred and Nineteenth	One Hundred and Twenty-first	1	1,353
Laflin	Forty-sixth	Forty-seventh	1	535
La Salle	Fifty-third	Fifty-fourth	1 1/4	660
La Salle	Fifty-fourth	Fifty-fifth	1	618
Leavitt	Thirty-fourth	Thirty-fifth	1 1/4	648
Lexington avenue	Fifty-sixth	Fifty-ninth	2	1,972
Madison avenue	Sixty-seventh	Seventieth	6	1,924
Maryland avenue	Sixty-third	Sixty-fourth	1	665
Michigan terrace	Forty-first	Northward	1 1/4	500
Michigan terrace	500 ft. north of Forty-first	Fortieth	1	615
Morgan	Fifty-ninth	Sixtieth	1	669
Morgan	Fifty-seventh	Alley S. of Fifty-fifth	1	994
Morgan	Sixty-eighth	Sixty-ninth	1 1/4	670
Ninety-fifth	Calumet river	First avenue	4	688
Ninety-fifth	First avenue	Second avenue	3 1/2	335
Ninety-fifth	Second avenue	Third avenue	3	332
Ninety-fifth	Third avenue	Fourth avenue	2 1/2	332
Ninety-fifth	Fourth avenue	Sixth avenue	2	345
One Hundred and Twentieth	Halsted	Clinton	1 1/4	1,968
One Hundred and Twentieth	Canal	Wentworth	1 1/4	1,650
One Hundred and Twenty-second	Wentworth avenue	Stewart avenue	1 1/4	1,330
Palmer avenue	Seventy-first	Seventy-third	2	1,285
Paxton avenue	Seventy-third	Seventy-second	1 1/4	660
Paxton avenue	Seventy-second	Northward	1	300
Peoria	Fifty-fourth court	Alley north of Fifty-fifth	1 1/4	154
Peoria	Fifty-ninth	Sixty-first	1	1,331

## SOUTH DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in feet.	Length in feet.
Peoria .....	Sixty-first .....	Sixty-second .....	1¼	658
Peoria .....	Sixty-second .....	Sixty-third .....	1	670
Peoria .....	Sixty-eighth .....	Sixty-ninth .....	1¼	668
Peoria .....	Sixty-ninth .....	Seventy-first .....	1½	1,345
Rosenmerkel .....	Wright .....	Stewart avenue .....	1¼	575
Sangamon .....	Fifty-ninth .....	Sixty-second .....	1	1,998
Sangamon .....	Sixty-eighth .....	Sixty-ninth .....	1¼	670
Sangamon .....	Seventieth .....	Seventy-first .....	1	620
Sherman .....	Fifty-sixth .....	South of Fifty-eighth .....	1	1,581
Shields avenue .....	One Hundred and Nineteenth .....	One Hundred and Twenty-third .....	1	2,480
Sixtieth court .....	Halsted .....	Union .....	1	573
Sixty-second .....	Stony Island avenue .....	Illinois Central R. R. .....	1	769
Sixty-third .....	Stewart avenue .....	Princeton avenue .....	1¼	725
Sixty-fourth .....	Grace avenue .....	Eastward .....	1	330
Sixty-fifth .....	Wright .....	Stewart avenue .....	1	579
Sixty-sixth court .....	Honore .....	Wright .....	1	534
Sixty-ninth .....	Halsted .....	Morgan .....	2	1,855
Seventieth .....	Yates avenue .....	Avenue C .....	6½	3,936
Seventieth .....	Avenue C .....	Madison avenue .....	6	1,600
Seventieth court .....	Webster avenue .....	C., R. I. & P. Ry .....	¾	330
Seventy-first .....	Lake Michigan .....	Yates avenue .....	6	1,596
Seventy-first .....	Halsted .....	Morgan .....	2	1,335
Seventy-second .....	Wright .....	Dickey .....	1¼	333
Seventy-third .....	Lake Michigan .....	Railroad avenue .....	6	1,274
Seventy-third .....	Halsted .....	Morgan .....	2	1,327
Seventy-third .....	Railroad avenue .....	Cregier avenue .....	6	4,620
Seventy-third .....	Cregier avenue .....	Adams avenue .....	5½	2,560
Seventy-third .....	Adams avenue .....	Dobson avenue .....	5	2,650
Seventy-third .....	Dobson avenue .....	Cottage Grove avenue .....	4½	1,667
Seventy-third .....	Cottage Grove avenue .....	St. Lawrence avenue .....	4	1,338
Seventy-third .....	St. Lawrence avenue .....	South Park avenue .....	3½	1,332
Seventy-third .....	South Park avenue .....	Prairie avenue .....	3	885
Seventy-third .....	Prairie avenue .....	State .....	2½	1,824
Seventy-third .....	Railroad avenue .....	Lake Michigan .....	2½	1,240
Seventy-third .....	Perry .....	State .....	1½	880
Seventy-fourth .....	Halsted .....	Morgan .....	1¼	1,337
Seventy-fourth .....	Bissell avenue .....	Mattison avenue .....	1¼	441
Stony Island avenue .....	Fifty-sixth .....	Fifty-ninth .....	2	1,970
Stony Island avenue .....	Sixty-third .....	Sixty-fifth .....	2	1,347
Stony Island avenue .....	Sixty-fifth .....	Sixty-sixth .....	1¼	662
Stony Island avenue .....	Sixty-sixth .....	Sixty-seventh .....	1	646
State .....	Sixty-fourth .....	Northward .....	1	245
Stewart avenue .....	One Hundred and Nineteenth .....	One Hundred and Twenty-third .....	1	2,480
Superior avenue .....	Eighty-seventh .....	Eighty-eighth .....	1	636
Superior avenue .....	Eighty-eighth .....	Eighty-ninth .....	1¼	665
Superior avenue .....	Eighty-ninth .....	Ninetieth .....	2	665
Superior avenue .....	Ninetieth .....	Alley north of Ninety-first .....	1	498
Superior avenue .....	Ninety-second .....	Northward .....	1	494
Sullivan court .....	Lyman .....	Southward .....	1	512
Thirty-second .....	Auburn .....	Laurel .....	1	583
Thirty-third .....	Auburn .....	Laurel .....	1	586
Thirty-third .....	Archer avenue .....	Lincoln .....	1¼	277
Thirty-third .....	Butler .....	East of Hanover .....	1	469
Thirty-third .....	Stewart avenue .....	Fifth avenue .....	1	1,146
Thirty-third .....	La Salle .....	Westward .....	1	181
Thirty-third .....	La Salle .....	Eastward .....	1	108
Thirty-third court .....	Paulina .....	Wood .....	1	596

## SEWERAGE DEPARTMENT.

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## SOUTH DIVISION—CONTINUED.

STREET	FROM	TO	Diam. in feet.	Length in feet.
Thirty-fourth.....	Paulina.....	Wood.....	1	598
Thirty-fourth court.....	Lincoln.....	Robey.....	1	665
Thirty-sixth.....	Laurel.....	Gage.....	1	400
Thirty-seventh court.....	Wabash avenue.....	Michigan avenue.....	1	364
Tracy avenue.....	Forty-third.....	Layton.....	1 $\frac{1}{2}$	940
Tracy avenue.....	Layton.....	Forty-fifth.....	1	395
Union avenue.....	Fifty-sixth.....	Fifty-ninth.....	1	1,983
Union avenue.....	Seventy-first.....	Seventy-second.....	1	668
Union avenue.....	Seventy-second.....	Seventy-third.....	1 $\frac{1}{2}$	663
Union avenue.....	One Hundred and Nineteenth.....	One Hundred and Twentieth.....	1	516
Vernon avenue.....	Forty-third.....	Southward.....	1	325
Vincennes avenue.....	Eighty-fifth.....	Southward.....	2	725
Webster avenue.....	Seventy-third.....	Seventy-fifth.....	1	1,317
Wright.....	Seventy-first.....	Seventy-second.....	1	620
Wright.....	Seventy-second.....	Seventy-third.....	1 $\frac{1}{2}$	660
Yates avenue.....	Seventieth.....	Seventy-first.....	6	600
Total.....				163,958



SEWERS CONSTRUCTED DURING THE YEAR 1892 IN THE  
NORTH DIVISION.

STREET.	FROM	TO	Diam. in feet.	Length in feet.
Arlington place.....	Lawrence avenue.....	Northward.....	1	540
Asberg terrace.....	Halsted.....	Eastward.....	1	485
Ashland avenue.....	Lawrence avenue.....	Northward.....	1½	775
Ashland avenue.....	775 ft. N. of Lawrence ave.	Tuttle.....	1	267
Bernice.....	West Ravenswood Park.....	Westward.....	1	705
Bernice.....	Robey.....	Eastward.....	1	388
Bosworth.....	Nellie avenue.....	Northward.....	1	494
Burling.....	Alley S. of Wrightwood ave.	Southward.....	1	288
Buckingham place.....	140 ft. E. of Halsted.....	Eastward.....	1	432
Byron.....	West Ravenswood Park.....	Westward.....	1	785
Centre.....	Wellington avenue.....	Northward.....	1	290
Commercial.....	Graveland avenue.....	Bell Plaine avenue.....	1½	677
Commercial.....	Bell Plaine avenue.....	Berteau avenue.....	1	650
Commercial.....	Addison avenue.....	Lincoln avenue.....	1	585
Commercial.....	Addison avenue.....	Nellie.....	1½	665
Commercial.....	Graveland avenue.....	Byron.....	1½	665
Commercial.....	Byron.....	Nellie.....	1	332
Edgewater place.....	Southport avenue.....	Rubens avenue.....	1½	1,665
Edgewater place.....	Rubens avenue.....	Westward.....	1	555
Ernest avenue.....	Southport avenue.....	Rubens avenue.....	1½	665
Ernest avenue.....	Rubens avenue.....	Westward.....	1	490
Evanston avenue.....	North court.....	Lawrence avenue.....	1½	888
Evanston avenue.....	North court.....	Argyle.....	1	442
Evanston avenue.....	Thorndale avenue.....	Southward.....	1½	515
Faye.....	West Ravenswood Park.....	Westward.....	1	930
Fletcher.....	Oakley avenue.....	Hoynes avenue.....	1	1,320
George.....	Sheffield avenue.....	Seminary avenue.....	1	630
Giddings.....	Robey.....	Westward.....	1½	620
Giddings.....	620 ft. W. of Robey.....	Leavitt.....	1	645
Grace.....	Ashland avenue.....	Paulina.....	1	625
Hangen.....	Addison avenue.....	Nellie.....	1½	625
N. S. Herndon.....	Diversey avenue.....	Southward.....	1	483
Henderson avenue.....	Diversey avenue.....	Marianna avenue.....	1½	662
Illinois.....	950 ft. N. of Seneca.....	Eastward.....	1½	250
Jannsen avenue.....	Nellie.....	Grace.....	1	647
Jannott.....	Robey.....	Westward.....	1½	620
Jannott.....	620 ft. W. of Robey.....	Leavitt.....	1	645
Judson.....	Blackhawk.....	Eastman.....	1	430
Kenmore.....	Grand avenue.....	Rosemont avenue.....	1½	665
Larrabee.....	353 ft. S. of Frederick.....	Northward.....	1	748
Lakewood avenue.....	North Fifty-ninth.....	Berwyn avenue.....	1½	666
Lakewood avenue.....	Berwyn avenue.....	Claremont avenue.....	1	1,332
Lakewood avenue.....	Claremont avenue.....	Bryn Maur avenue.....	1½	666
Lakeview avenue.....	Roslyn place.....	Southward.....	1½	470
Leavitt.....	Noble avenue.....	Melrose.....	1½	934
Leavitt.....	Noble avenue.....	Clybourn avenue.....	1	605
Leavitt.....	Melrose.....	School.....	1	324
Leland avenue.....	Robey.....	Westward.....	1½	620
Leland avenue.....	620 ft. W. of Robey.....	Leavitt.....	1	645
Marianna.....	Ward.....	Herndon.....	1	310
Melrose.....	Leavitt.....	Eastward.....	1	486
Melrose.....	Robey.....	Westward.....	1	232
Nelson avenue.....	Ashland avenue.....	Perry.....	1½	660
Noble avenue.....	Ashland avenue.....	Paulina.....	1½	627
Noble avenue.....	Paulina.....	Wood.....	1	648
Oakley avenue.....	Belmont avenue.....	Fletcher.....	1½	332
Oakley avenue.....	Fletcher.....	Clybourn avenue.....	1	330

## SEWERAGE DEPARTMENT.

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## NORTH DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in feet.	Length in feet.
Oakdale avenue.....	Racine avenue.....	Seminary avenue.....	1	625
Paulina.....	Graceland avenue.....	Byron.....	1¼	665
Paulina.....	Byron.....	Nellie.....	1	1,332
Paulina.....	Nellie.....	Addison avenue.....	1¼	665
Paulina.....	Cornelia.....	Lincoln.....	1	576
Perry.....	Nellie.....	Grace.....	1	666
Perry.....	Lincoln.....	Southward.....	1	445
Pine Grove avenue.....	Belmont avenue.....	Southward.....	1	290
Roscoe.....	Racine avenue.....	Seminary avenue.....	1¼	660
Roscoe.....	Seminary avenue.....	Eastward.....	1	485
School.....	Ashland avenue.....	Perry.....	1	626
Seminary avenue.....	Roscoe.....	Newport avenue.....	1	335
Sieben place.....	Larrabee.....	Hinsche.....	1	553
Southport avenue.....	Byron.....	Grace.....	1¼	660
Southport avenue.....	Grace.....	Nellie.....	1	665
Southport avenue.....	Grand avenue.....	Ernst.....	2½	710
Southport avenue.....	Ernst.....	Devon.....	2	615
Sulzer.....	Halsted.....	Eastward.....	1	385
Thome.....	Southport avenue.....	Rubens.....	1¼	665
Thome.....	Rubens.....	Westward.....	1	490
Webster avenue.....	Evanston avenue.....	Westward.....	1¼	405
Webster avenue.....	Southport avenue.....	Eastward.....	1	925
Weed.....	Smith.....	Sheffield avenue.....	1	546
West court.....	Belmont avenue.....	Southward.....	1	290
Winthrop place.....	Grand avenue.....	Rosemont avenue.....	1¼	665
Wolfram.....	Southport avenue.....	Perry.....	1	623
Woodside avenue.....	Graceland avenue.....	Byron.....	1¼	665
Woodside avenue.....	Byron.....	Southward.....	1	496
Woodside avenue.....	Nellie avenue.....	Cornelia.....	1	1,330
Woodside avenue.....	Cornelia.....	Lincoln.....	1	1,250
Woodside avenue.....	Nellie.....	Grace.....	1	496
Wolcot.....	Graceland avenue.....	Byron.....	1	670
Total.....			.. .	55,148

## WING SEWERS BUILT IN THE YEAR 1892 IN THE WEST DIVISION.

STREET.	FROM	TO	Diam. in feet.	Length in feet.
Avers avenue.....	Manhole in 22d.....	Southward.....	1	48
Avers avenue.....	Manhole in North avenue..	North and south.....	1 1/4	112
Avondale avenue.....	Manhole in Belmont avenue	Southward.....	2	58
Berlin.....	Manhole in California avenue.....	Eastward.....	1	40
N. side Bloomingdale road.....	Manhole in Fairfield avenue	East and west.....	1	88
N. side Bloomingdale road.....	Manhole in Talman avenue.	East and west.....	1	80
S. side Bloomingdale road.....	Manhole in Talman avenue.	East and west.....	1	80
Brunswick.....	Manhole in Belmont avenue	Southward.....	1 1/4	44
Brunswick.....	Manhole in Belmont avenue	Northward.....	2	44
Byrne.....	Manhole in Belmont avenue	North and south.....	1 1/4	80
California avenue.....	Manhole in Belmont avenue	Northward.....	1 1/4	42
Central Park avenue.....	Manhole in Armitage avenue.....	Northward.....	1 1/4	36
Central Park avenue.....	Manhole in Belmont avenue	North and south.....	2	88
Cornelia.....	Manhole in Hoyne avenue..	East and west.....	1	78
Delampter place.....	Manhole in Armitage avenue.....	Southward.....	1 1/4	40
Dresden.....	Manhole in Belmont avenue	Southward.....	1 1/4	44
Eberley.....	Manhole in Belmont avenue	Southward.....	1 1/4	44
Elston avenue.....	Manhole in Belmont avenue	Northwest.....	2	67
Emily.....	Manhole in Hoyne avenue.....	Westward.....	1	36
W. Fortieth.....	Manhole in Armitage avenue.....	North and south.....	1 1/4	85
W. Fortieth.....	Manhole in North avenue..	Northward.....	1 1/4	56
W. Fortieth.....	Manhole in North avenue..	Southward.....	2	50
Francisco.....	Manhole in Fillmore.....	Northward.....	1	44
Francisco.....	Manhole in Belmont avenue	Northward.....	1 1/4	42
Francisco.....	Manhole in Belmont avenue	Southward.....	2	36
Hamlin avenue.....	Manhole in Armitage avenue.....	North and south.....	1 1/4	75
Hamlin avenue.....	Manhole in North avenue..	North and south.....	1 1/4	112
Hamlin avenue.....	Manhole in Armitage avenue.....	North and south.....	1 1/4	80
Hamlin avenue.....	Manhole in Belmont avenue	Northward.....	2	46
Harding avenue.....	Manhole in North avenue..	North and south.....	1 1/4	112
Hammond avenue.....	Manhole in Belmont avenue	Northward.....	2	36
Hervey.....	Manhole in Hoyne avenue..	Westward.....	1	36
Hinckley.....	Manhole in Armitage avenue.....	Southward.....	1 1/4	46
Hinckley.....	Manhole in North avenue..	North and south.....	1 1/4	110
Hoyne avenue.....	Manhole in Fourteenth.....	Northward.....	1	44
Hoyne avenue.....	Manhole in Hastings.....	Northward.....	1	44
Howard avenue.....	Manhole in North avenue..	Southward.....	1 1/4	56
Hoffman avenue.....	Manhole in Belmont avenue	Southward.....	1 1/4	42
Homan avenue.....	Manhole in Belmont avenue	North and south.....	2	92
Humboldt.....	Manhole in Belmont avenue	Northward.....	1 1/4	42
Iowa.....	Manhole in Hoyne avenue..	Westward.....	1	36
Irving avenue.....	Manhole in Armitage avenue.....	North and south.....	1 1/4	80
Johnson avenue.....	Manhole in Humboldt.....	Eastward.....	1	32
Keeney.....	Manhole in Belmont avenue	Northward.....	1 1/4	42
Kedzie avenue.....	Manhole in Belmont avenue	Southward.....	2	48
Kimball avenue.....	Manhole in Armitage avenue.....	Northward.....	1 1/4	40
Lawndale avenue.....	Manhole in North avenue..	Southward.....	1 1/4	56
Lawndale avenue.....	Manhole in North avenue..	Northward.....	2	52
Laurel avenue.....	Manhole in Belmont avenue	North and south.....	1 1/4	80
Lincoln.....	Manhole in Hastings.....	North and south.....	1	82
McAuley avenue.....	Manhole in Armitage avenue.....	Northward.....	1	36
McAuley avenue.....	Manhole in North avenue..	North and south.....	1 1/4	110
Mead.....	Manhole in Armitage avenue.....	Northward.....	1 1/4	46
Oglesby avenue.....	Manhole in Armitage avenue.....	Northward.....	1 1/4	40
Park.....	Manhole in Belmont avenue	Southward.....	1 1/4	44
Pennsylvania avenue.....	Manhole in Armitage avenue.....	North and south.....	1 1/4	86
Pennsylvania avenue.....	Manhole in North avenue..	North and south.....	1 1/4	112

## WEST DIVISION—CONTINUED.

STREET.	FROM	TO	Diam. in feet.	Length in feet.
Randolph.....	Manhole in Belmont avenue	Northward.....	2	46
Ridgeway avenue.....	Manhole in Armitage avenue.....	Southward.....	1 1/4	39
Ridgeway avenue.....	Manhole in North avenue..	Southward.....	1 1/4	56
Rosebud.....	Manhole in Upton.....	East and west.....	1	88
Sacramento avenue...	Manhole in Flournoy.....	Northward.....	1	38
Sacramento avenue...	Manhole in Polk.....	Northward.....	1	38
Sacramento avenue...	Manhole in Harvard.....	Northward.....	1	38
Sacramento avenue...	Manhole in Fillmore.....	Northward.....	1	38
Sheridan avenue.....	Manhole in Belmont avenue	Southward.....	1 1/4	40
Sheridan avenue.....	Manhole in Armitage avenue.....	North and south.....	1 1/4	86
Sixteenth.....	Manhole in Spaulding avenue.....	Eastward.....	1 1/4	26
Springfield avenue.....	Manhole in 22d.....	Northward.....	1	46
Springfield avenue.....	Manhole in North avenue..	North and south.....	1 1/4	113
Springfield avenue.....	Manhole in Armitage avenue.....	North and south.....	1 1/4	80
Sumner avenue.....	Manhole in Armitage avenue.....	Southward.....	1 1/4	40
Thomas.....	Manhole in Belmont avenue	Northward.....	1 1/4	40
Thomas.....	Manhole in Belmont avenue	Southward.....	2	36
Tinkham.....	Manhole in North avenue..	Southward.....	1 1/4	56
Tripp avenue.....	Manhole in North avenue..	Southward.....	1 1/4	55
Wabansia avenue.....	Manhole in Talman avenue..	East and west.....	1	72
Washtenaw avenue....	Manhole in Polk.....	North and south.....	1	80
Wallace avenue.....	Manhole in Belmont avenue	Northward.....	1 1/4	40
Wilmot avenue.....	Manhole in Hoyne avenue..	Northwest.....	1	60
Total.....				4,879

## WING SEWERS BUILT IN THE YEAR 1892 IN THE SOUTH DIVISION.

STREET.	FROM	TO	Diam. in feet.	Length in feet.
Alley E. of Western ave	Manhole in Thirty-fifth	Southward	1½	36
Alley S. of Fifty-fifth	Manhole in Center avenue	Westward	1½	42
Aberdeen	Manhole in Sixty-third	Southward	1½	42
Aberdeen	Manhole in Fifty-seventh	Southward	1	42
Attica	Manhole in Auburn	Westward	1	40
Bishop	Manhole in Forty-seventh	Northward	1½	40
Boulevard place	Manhole in St. Lawrence avenue	Westward	1	40
Butler	Manhole in Thirty-third	Southward	1	46
Carpenter	Manhole in Fifty-seventh	North and South	1	84
Carpenter	Manhole in Fifty-sixth	North and South	1	74
Carpenter	Manhole in Sixty-third	Southward	1½	42
Champlain avenue	Manhole in Thirty-fifth	Northward	1½	40
Forty-sixth	Manhole in Gross avenue	Eastward	1	46
Forty-seventh	Manhole in Paulina	Westward	2	48
Forty-eighth	Manhole in St. Lawrence avenue	East and West	1	80
Forty-ninth	Manhole in St. Lawrence avenue	Westward	1	42
Fiftieth	Manhole in St. Lawrence avenue	Westward	1	42
Fiftieth	Manhole in Calumet avenue	Eastward	1½	42
Fiftieth court	Manhole in St. Lawrence avenue	Westward	1	42
Fifty-third	Manhole in Center avenue	Westward	2	42
Fifty-sixth	Manhole in Center avenue	Westward	2	42
Fifty-seventh	Manhole in Jackson avenue	East and West	1	80
Laffin	Manhole in Gross avenue	Northward	1	58
Leavitt	Manhole in Thirty-fifth	Northward	1½	38
Loomis	Manhole in Forty-seventh	Northward	1½	40
May	Manhole in Fifty-seventh	North and South	1	84
May	Manhole in Fifty-sixth	North and South	1	84
May	Manhole in Sixty-third	North and South	1½	84
McAlpine	Manhole in Thirty-fifth	Northward	2	40
Morgan	Manhole in Fifty-seventh	Southward	1	42
Oakley avenue	Manhole in Thirty-fifth	North and South	2	78
Paulina	Manhole in Forty-seventh	Northward	1½	46
Shields avenue	Manhole in Thirty-third	Southward	1	46
Sixty-fourth	Manhole in State	Westward	1½	60
Thirty-second	Manhole in Auburn	East and West	1	80
Thirty-second	Manhole in Butler	Westward	1	40
Thirty-second	Manhole in Parnell avenue	Eastward	1	40
Thirty-third	Manhole in Auburn	Westward	1	42
Union avenue	Manhole in Thirty-ninth	Southward	1½	42
Yorktown	Manhole in Thirty-fifth	Northward	1½	40
TOTAL				2,058

## WING SEWERS BUILT IN THE YEAR 1892 IN THE NORTH DIVISION.

STREET.	FROM	TO	Diam. in feet.	Length in feet.
Ardmore.....	Manhole in Evanston ave..	Eastward.....	1	56
Bernice.....	Manhole in Lincoln avenue	East and West.....	1	84
Berteau.....	Manhole in Lincoln avenue	East and West.....	1	86
Byron.....	Manhole in Southport ave..	Westward.....	1	44
Byron.....	Manhole in Southport ave..	Eastward.....	1 $\frac{1}{4}$	46
Byron.....	Manhole in Lincoln avenue	East and West.....	1	84
Center.....	Manhole in Graceland ave..	Southward.....	1	42
Charlton.....	Manhole in Grand avenue..	Northward.....	1	42
Cosgrove.....	Manhole in Lincoln avenue	Eastward.....	1	42
Craft place.....	Manhole in School.....	Southward.....	1	42
Euclid avenue.....	Manhole in Grand avenue..	Northward.....	2	42
Faye.....	Manhole in Lincoln avenue	Eastward.....	1 $\frac{1}{4}$	42
Fischer.....	Manhole in Grand avenue..	Northward.....	2	42
Grace.....	Manhole in Southport ave..	Westward.....	1	44
Grace.....	Manhole in Lincoln avenue	East and West.....	1	86
Hollywood.....	Manhole in Evanston ave..	Eastward.....	1	56
Linden place.....	Manhole in Lawrence ave..	Northward.....	2	42
Nellie avenue.....	Manhole in Lincoln avenue	Westward.....	1	42
Nellie avenue.....	Manhole in Rokeby.....	Westward.....	1	42
Perry.....	Manhole in Berteau.....	Northward.....	1	56
Pensacola.....	Manhole in Lincoln avenue	Eastward.....	1	42
East Ravenswood Park.	Manhole in Graveland ave..	North and South.....	1 $\frac{1}{4}$	104
Southport avenue.....	Manhole in Grand avenue..	Southward.....	2 $\frac{1}{4}$	44
TOTAL.....				1,252

MANHOLES AND CATCH-BASINS RAISED TO GRADE ON STREETS ORDERED IMPROVED WITH COST OF SAME  
DURING THE YEAR 1892, AS FOLLOWS:

No.	DESCRIPTION OF WORK DONE.	Cement.	Brick.	Covers.		Straight Pipe.			Curved Pipe.				Boxes. No. ft.	Cost.		TOTAL COST.	
				Iron.	Wood	6 in.	9 in.	15 in.	6 in.	9 in.	12 in.	15 in.		Material, Bills, etc.	Labor and Teaming.		
3,056	Manholes raised to grade. . . . Catch-basins raised to grade. }	4,821	1,360,750	978	1,184	196	67	6,133	88	8	109	4	2	5,718	\$26,172 60	\$44,575 23	\$70,747 83
3,402																	

AMOUNT EXPENDED FOR REPAIRS OF SEWERS, MANHOLES AND CATCH-BASINS, ALSO MANHOLE AND CATCH-BASIN COVERS DURING THE YEAR 1892, AS FOLLOWS:

NO.	DESCRIPTION OF WORK DONE.	Cement.		Brick.		Covers.		Straight Pipe.						Curved Pipe.				Junctions.				Bottoms.	Feet of Boxes.	COST.	
				Iron.	Wood.	4 in.	6 in.	8 in.	12 in.	15 in.	18 in.	4 in.	6 in.	8 in.	12 in.	6x8	6x12	6x15	6x18	Slants.	Trips.			9 in.	Material, Bills, etc.
113	Manholes repaired .....																								
139	Catch-basins repaired.....																								
196	Feet of 4-in. drains repaired .....	4																							
248	Feet of 6-in. drains repaired .....	11																							
1,163	Feet of 9-in. drains repaired .....	31	4,600																						
1,780	Feet of 12-in. drains repaired .....	48	10,300																						
686	Feet of 16-in. sewer repaired .....	31	6,100																						
312	Feet of 18-in. sewer repaired .....	21	3,600																						
226	Feet of 2-ft. sewer repaired .....	50	10,240																						
312	Feet of 3-ft. sewer repaired .....	64	12,000																						
66	Feet of 4-ft. sewer repaired .....	84	6,000																						

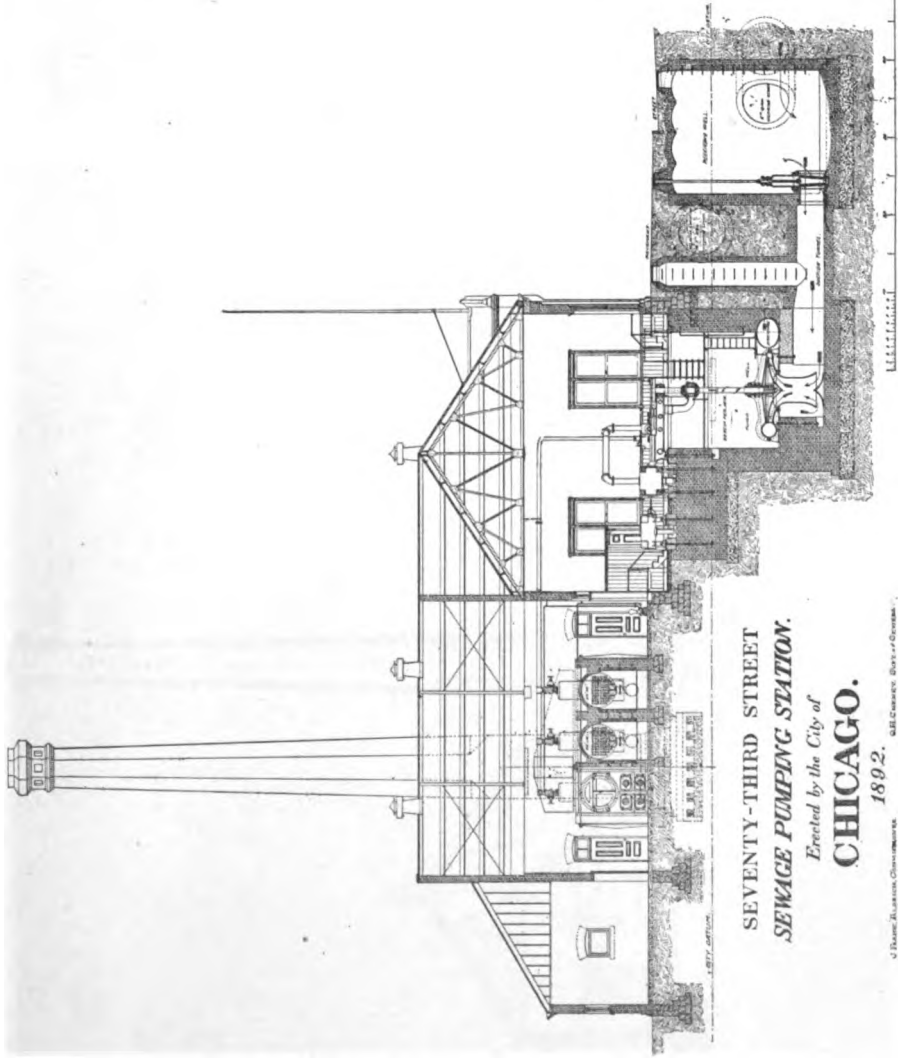
## SEWERS AND CATCH-BASINS CLEANED IN THE THREE DIVISIONS OF THE CITY DURING THE YEAR 1892.

METHOD.	SOUTH DIVISION.		WEST DIVISION.		NORTH DIVISION.		TOTAL.		Average Cost per 100 Feet.
	Feet Cleaned.	Cost.	Feet Cleaned.	Cost.	Feet Cleaned.	Cost.	Feet Cleaned.	Cost.	
Flushing.....	270,670	\$ 4,430 56	298,275	\$3,869 01	430,680	\$6,080 85	994,625	\$14,380 42	\$1 44
Iron Scraper.....	498,911	36,056 15	82,090	5,136 18	54,880	6,017 45	585,881	47,209 78	8 06
Wood Scraper.....	88,515	1,909 89	131,845	5,061 21	78,827	4,705 10	249,187	11,676 20	4 68
TOTAL.....	808,096	\$42,396 60	457,210	\$14,066 40	564,837	\$16,808 40	1,829,643	\$78,266 40	.....
Opening inlets to catch-basins, attending complaints, etc.....									
TOTAL.....							3,794 82	.....	.....
							\$77,061 22	.....	.....
							Average Cost per Basin.	.....	.....
Catch-basins cleaned.....	5,671	\$24,423 59	3,698	\$19,894 77	2,867	\$13,574 48	12,231	\$57,892 84	\$4 57
Cost of cleaning sewers and catch-basins.....								\$134,954 06	.....
Miscellaneous bills for repairs of tools, etc.....								7,766 46	.....
TOTAL COST OF CLEANING SEWERS AND CATCH-BASINS.....								\$142,720 52	.....



## RECEIPTS IN THE HOUSE DRAIN DEPARTMENT DURING THE YEAR 1892.

DIVISIONS.	PERMITS ISSUED.						Receipts.
	15-inch.	12-inch.	9-inch.	6-inch.	Total	Junc-tions.	
West .....	1	14	80	2,949	3,044	19	\$15,791 17
South .....		8	65	647	715	10	8,947 50
North .....		1	14	112	127	4	722 50
Lake View .....		1	8	1,475	1,484	12	7,497 50
Hyde Park. ....	1	2	30	1,092	1,125	15	5,837 50
Town of Lake .....		3	18	2,200	2,221	17	11,360 00
TOTALS .....	2	24	215	8,475	8,716	77	\$45,156 17
From licenses .....							1,595 00
Receipts from Special Assessments, etc. ....							32,972 48
Miscellaneous Credits .....							35 75
Total Receipts .....							\$79,759 40



SEVENTY-THIRD STREET  
SEWAGE PUMPING STATION.

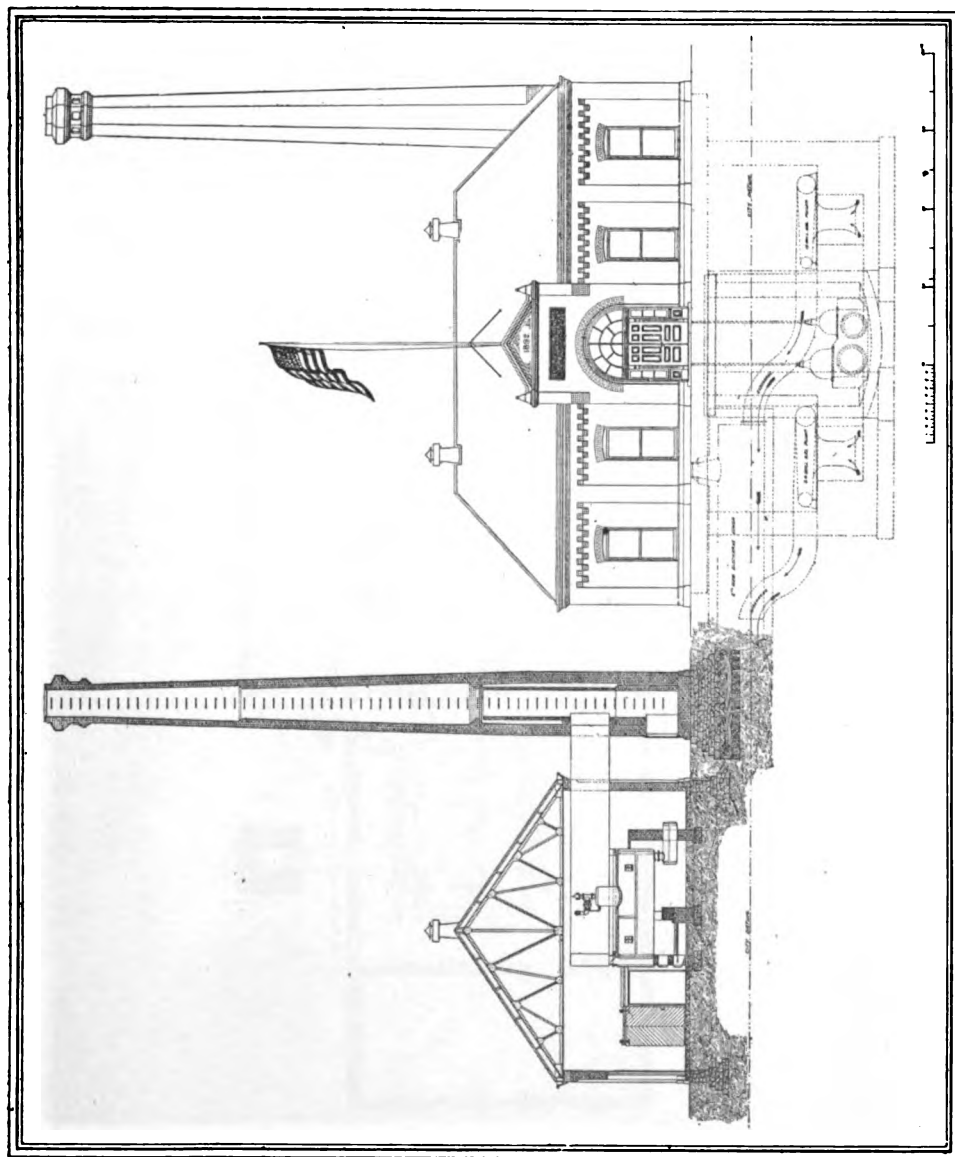
*Erected by the City of*

**CHICAGO.**

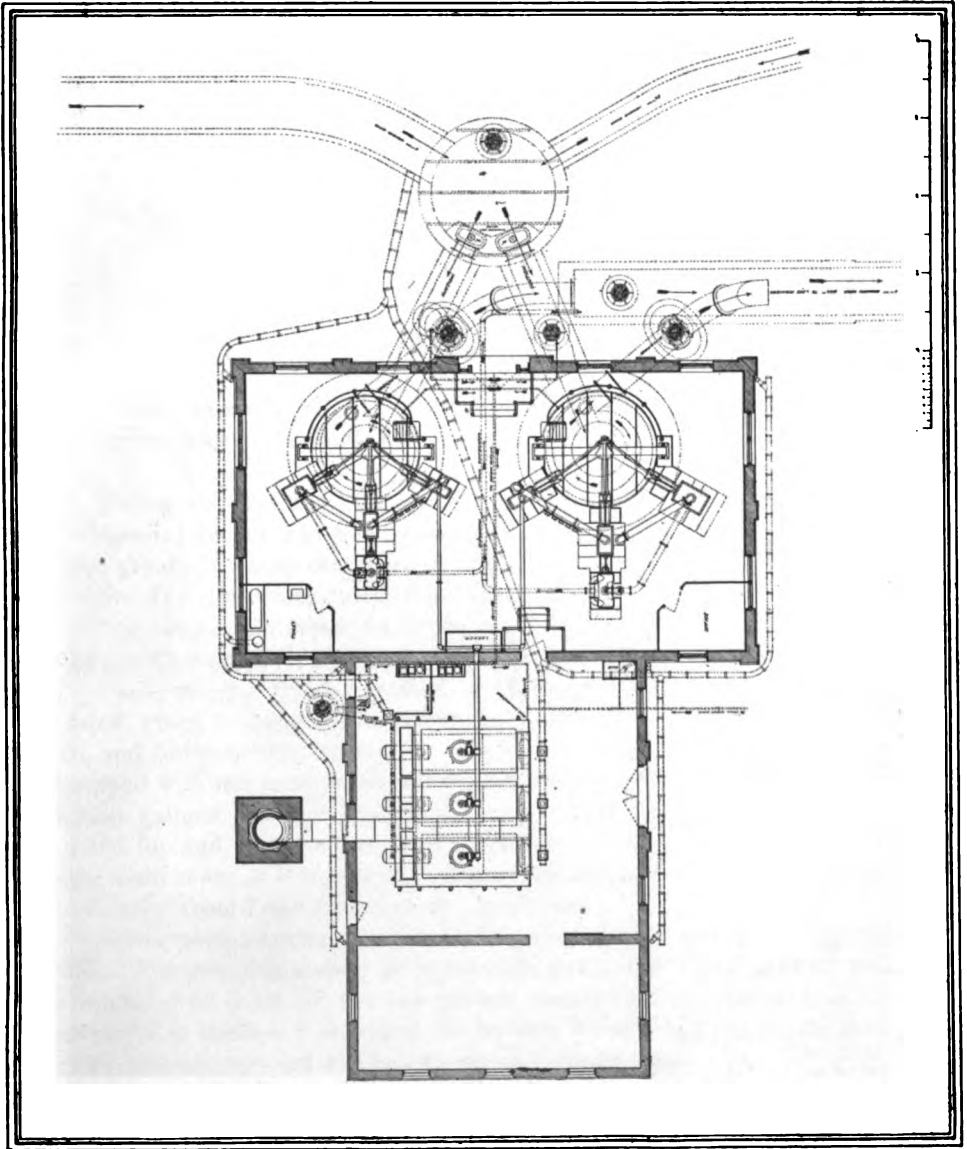
1892.

J. B. H. 1892. J. B. H. 1892. J. B. H. 1892.











NUMBER OF DRAINS PUT IN PLACE DURING THE YEAR 1892,  
UNDER SPECIAL ASSESSMENT.

DIVISIONS.	Total Number of Drains.	Total Length in Feet.	Total Cost.	Average Cost per Drain.	Average Length of Drain in Feet.	Average Cost per Foot.
West .....	5,259	149,767	\$37,484 85	\$7 18	28.48	\$0.25.04
South.....	5,111	149,102	39,283 12	7 69	29.17	26.85
North.....	2,192	61,991	19,696 65	8 99	28.23	31.77
Rock Excavation.....			8,234 88			
<b>TOTAL.....</b>	<b>12,562</b>	<b>360,860</b>	<b>\$99,698 50</b>	<b>\$7 94</b>	<b>28.73</b>	<b>\$0.27.63</b>

Making a total of 68.34 miles of 6-inch drains laid by contract and paid for by Special Assessment.

During the year 1892 the unfinished contract for the large main sewer on Crawford avenue has been completed from Kinzie to Division streets, which greatly relieves that part of the City west of Crawford avenue and south of Division street during flood times.

The large main sewer on Irving Park boulevard has been completed from the Chicago river to Milwaukee avenue.

The pumping station located at Seventy-third street and Railroad avenue, which is designed to drain that part of the City between Seventy-first and Seventy-fifth streets and east of State street, has been built and equipped with two submerged centrifugal pumps, with a capacity of thirty-six million gallons per day, operated by two triple expansion engines, contracted for and furnished by E. P. Allis & Co., of Milwaukee, Wis. The large main sewer in this pumping district has been completed on Seventy-third street from Lake Michigan to State street.

These pumps are expected to be in working order early in the spring of 1893. The pumping station at Seventieth street and Yates avenue, which is intended to drain all the low ground east of State street and north of Seventy-first street not provided for by the Woodlawn pumping district, is under construction and will be completed early in 1893.

This station will have two centrifugal pumps, with a capacity of Forty-three million gallons per day, operated by two triple expansion engines which are under contract to be furnished by the Southwark Machine Co., of Philadelphia, Pa.

The large main sewer in Seventieth street in connection with this system is finished from Lake Michigan to Madison avenue, and will be re-commenced and pushed to completion as soon as the weather will permit.



The capacity of the pumping station located at Sixty-ninth and Peoria streets has been increased by a centrifugal pump of five million gallons duty per day.

An assessment has been made for a large main sewer in Wentworth avenue, discharging into the Calumet river, at an estimated cost of \$820,000, and, if confirmed by the court, will be contracted for in the near future.

This system is designed to drain all of that part of the City west of State street and south of Eighty-seventh street, and covering an area of 5,500 acres.

There is also an assessment under way for a large main sewer in Robey street, discharging into the South branch of the Chicago river and extending south to Eighty-seventh street, at an estimated cost of \$320,000.

In conclusion allow me to acknowledge my obligations to you and all other officers of the various bureaus of the department for the uniform courtesy and assistance extended to me in the discharge of the duties of this office and certify to the efficiency and faithfulness of all employees in this bureau in the discharge of their various duties.

Respectfully submitted,

O. H. CHENEY,

*Superintendent Bureau of Sewers.*



REPORT  
of the

**BUREAU OF STREETS**

CITY OF CHICAGO



# BUREAU OF STREETS.

HON. J. FRANK ALDRICH,

*Commissioner of Public Works.*

DEAR SIR:—I have the honor to submit herewith the Seventeenth Annual Report of the Bureau of Streets for the year ending December 31, 1892.

A review of the work accomplished during the past year by this Bureau is presented in detail; also a report of the condition and repairs of street lamps within the City limits.

Amount paid contractors for street improvements by special assessment. . . . .	\$ 2,930,414 74
For sidewalks built by the Bureau under special assessment . . . . .	108,969 44
For sweeping and cleaning improved streets by contract. . . . .	\$ 129,276 91
By Department. . . . .	86,481 73
	<hr/> 215,758 64
For repaving and repairing improved streets by contract	419,577 90
For grading, ditching, building and repairing aprons, culverts, crossings, etc., on unimproved streets. . . .	200,680 48
For sidewalk intersections. . . . .	\$ 10,900 89
For sidewalks, general repairs. . . . .	90,614 08
	<hr/> 101,514 92
For City parks. . . . .	7,428 85
For City Hall operation and maintenance. . . . .	85,881 78
For repairs on gas lamps. . . . .	\$ 50,948 62
For repairs on gasoline lamps. . . . .	9,048 47
For erecting posts and signs. . . . .	6,464 35
	<hr/> 66,456 44
Grand total. . . . .	<hr/> \$ 4,191,183 19

The following tables show the progress in street and alley improvements, the character of pavement laid on each street, the total length in lineal feet and miles, as well as the surface measurement in square yards:

## STREETS IMPROVED,

NAME OF STREET.	FROM	TO	COMMENCED.
Alley.....	Blackhawk to North ave.	Hudson to Cleveland...	April 19, 1892
Alley.....	Burton to North avenue	Dearborn to State.....	April 25, 1892
Alley.....	Centre to Garfield ayes.	Howe to Orchard.....	May 16, 1892
Alley.....	Superior to Chicago ave.	La Salle to Clark.....	May 25, 1892
Alley.....	Superior to Chicago ave.	La Salle to Wells.....	May 24, 1892
Alley.....	Eugenie to Menomonee.	Hudson to Sedgwick....	July 19, 1892
Alley.....	Menomonee to Wisconsin.	Hudson to Sedgwick....	July 28, 1892
Alley.....	Franklin to West A. & S. Alley.	Sigel to Schiller.....	Aug. 15, 1892
Alley.....	State to Cass.....	Illinois to Michigan...	Aug. 18, 1892
Alley.....	Townsend to Locust....	Milton to Chicago ave..	Aug. 23, 1892
Alley.....	Division to Goethe....	Clark to La Salle.....	Sept. 9, 1892
Alley.....	Fremont to Dayton....	Centre to Garfield....	Sept. 15, 1892
Alley.....	Willow to Clay.....	Fremont to Bissell....	Sept. 17, 1892
Alley.....	Webster to Belden.....	Burling to Orchard....	Oct. 6, 1892
Alley.....	Centre to Garfield....	Dayton to Halsted....	Oct. 5, 1892
*Alley.....	Franklin to Wells.....	Superior to Chicago ave.	.....
*Alley.....	Schiller to Burton.....	Astor to L. S. drive....	.....
Alley.....	Centre to Garfield....	Bissell to Sheffield....	Nov. 29, 1892
Alley.....	Centre to Garfield....	Bissell to Fremont....	Dec. 8, 1892
Aberdeen.....	Clark.....	Evanston.....	July 20, 1892
Ainslee.....	Evanston.....	Sheffield.....	June 21, 1892
*Arlington place.....	N. Clark.....	Lake View.....	.....
*Balmoral avenue.....	Magnolia.....	C. M. & St. P. Ry.....	.....
*Berwyn avenue.....	Magnolia.....	C. M. & St. P. Ry.....	.....
Berteau avenue.....	N. Clark.....	Ashland avenue.....	Sept. 5, 1892
Best avenue.....	Wrightwood avenue....	Diversey avenue.....	Sept. 10, 1892
*Buckingham place.....	Halsted.....	Evanston.....	.....
*Burling.....	Wrightwood avenue....	Dewey court.....	.....
Burling.....	Garfield avenue.....	Webster avenue.....	Mar. 23, 1892
Burton place.....	Dearborn avenue.....	State.....	May 19, 1892
Clarence avenue.....	Nellie avenue.....	Grace.....	Aug. 1, 1892
*Cherry avenue.....	Blackhawk.....	Weed.....	.....
Dearborn avenue.....	Ohio.....	Chicago avenue.....	July 8, 1892
Dunning.....	Racine avenue.....	Southport avenue.....	April 1, 1892
Ernst avenue.....	N. Clark.....	Southport avenue.....	.....
Evanston avenue.....	Bryn Mawr.....	Thorndale.....	May 5, 1892
Erie.....	State.....	St. Clair.....	Dec. 16, 1892
Gehrke avenue.....	N. Clark.....	Sheffield avenue.....	June 5, 1892
George.....	Halsted.....	Southport avenue.....	Aug. 8, 1892
Graceland avenue.....	N. Clark.....	Lincoln avenue.....	Sept. 10, 1892
Grand Avenue.....	N. Clark.....	Evanston avenue.....	.....
Grove court.....	Larrabee.....	Orchard.....	Sept. 27, 1892
Hazel.....	Sulzer.....	Buena.....	Sept. 14, 1892
Hobbie.....	Sedgwick.....	Larrabee.....	June 7, 1892
Janssen avenue.....	Roscoe.....	Grace.....	Sept. 18, 1892
Kinzie.....	La Salle.....	Eastern terminus.....	April 29, 1892
Lincoln avenue.....	Centre.....	Fullerton Avenue.....	Nov. 22, 1892
Lewis.....	Wrightwood avenue....	Diversey avenue.....	Oct. 1, 1892

\*Private Contract.

## NORTH DIVISION, 1892.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
April 29, 1892	J. V. McAdam & Co. ....	W. C. G. Cedar blocks	1,190.48	739.60
May 16, 1892	J. B. Smith & Co. ....	W. C. G. Cedar blocks	983.64	566.12
June 4, 1892	J. B. Smith & Co. ....	W. C. G. Cedar blocks	1,000.27	596.18
June 3, 1892	Talbot Paving Co. ....	W. C. G. Cedar blocks	725.61	636.00
June 6, 1892	Talbot Paving Co. ....	W. C. G. Cedar blocks	944.08	649.20
July 30, 1892	Olaf Vider. ....	W. C. G. Cedar blocks	1,821.48	594.66
Aug. 13, 1892	Talbot Paving Co. ....	W. C. G. Cedar blocks	1,104.20	595.08
Aug. 18, 1892	Talbot Paving Co. ....	W. C. G. Cedar blocks	439.12	320.00
Aug. 20, 1892	J. V. McAdam & Co. ....	W. C. G. Cedar blocks	414.20	207.10
Sept. 8, 1892	P. Farrell. ....	W. C. G. Cedar blocks	1,255.45	779.20
Sept. 19, 1892	Olaf Vider. ....	W. C. G. Cedar blocks	1,201.19	632.20
Sept. 20, 1892	J. B. Barnett. ....	W. C. G. Cedar blocks	1,054.59	724.40
Oct. 3, 1892	J. B. Barnett. ....	W. C. G. Cedar blocks	1,770.17	1,021.50
Oct. 10, 1892	Olaf Vider. ....	W. C. G. Cedar blocks	881.62	595.68
Oct. 8, 1892	A. J. McBean & Co. ....	W. C. G. Cedar blocks	1,010.80	722.16
.....	J. B. Smith & Co. ....	W. C. G. Cedar blocks	850.54	490.50
.....	A. J. McBean & Co. ....	W. C. G. Cedar blocks	507.00	285.00
Dec. 5, 1892	Olaf Vider. ....	W. C. G. Cedar blocks	1,086.03	724.02
Dec. 6, 1892	Olaf Vider. ....	W. C. G. Cedar blocks	893.11	264.08
Oct. 10, 1892	C. M. Netterstrom. ....	C. G. & Macadam. ....	7,648.53	2,294.56
July 28, 1892	C. B. Parsons. ....	C. G. & Macadam. ....	4,089.33	1,226.80
.....	J. B. Smith & Co. ....	C. G. Cedar blocks. ....	1,750.31	562.60
.....	Dolese & Shepard. ....	C. G. & Macadam. ....	2,356.67	707.00
.....	Dolese & Shepard. ....	C. G. & Macadam. ....	2,240.00	672.00
Oct. 9, 1892	J. B. Smith & Co. ....	C. G. Cedar blocks. ....	4,543.01	1,277.72
Oct. 5, 1892	J. B. Smith & Co. ....	C. G. Cedar blocks. ....	4,419.01	1,325.70
.....	O. Vider. ....	C. G. Cedar blocks. ....	4,196.67	1,259.00
.....	Garden City P. & P. Co. ....	C. G. Cedar blocks. ....	2,833.33	850.00
May 9, 1892	O. Vider. ....	S. C. G. Cedar blocks	2,089.09	597.50
June 6, 1892	J. B. Smith & Co. ....	S. C. G. Cedar blocks	1,001.13	300.34
Aug. 20, 1892	A. J. McBean & Co. ....	C. G. Cedar blocks. ....	2,349.25	704.78
.....	J. V. McAdam & Co. ....	W. C. G. Cedar blocks	1,891.76	656.00
Aug. 9, 1892	Western Pav. & S. Co. ....	S. C. G. Sheet Asphalt	6,684.48	1,671.12
July 5, 1892	Sackley & Peterson. ....	C. G. Cedar blocks. ....	4,609.94	1,296.55
Unfinished.	C. B. Parsons. ....	C. & F. Macadam. ....	.....	1,260.00
Nov. 15, 1892	C. B. Parsons. ....	C. G. & Macadam. ....	16,408.27	2,461.24
Unfinished.	Olaf Vider. ....	G. Cedar blocks on Macadam. ....	3,822.00	1,012.00
Aug. 2, 1892	J. B. Smith & Co. ....	C. G. Cedar blocks. ....	3,611.44	1,088.43
Nov. 8, 1892	J. V. McAdam & Co. ....	C. G. Cedar blocks. ....	14,728.02	3,825.88
Nov. 13, 1892	J. B. Smith & Co. ....	C. G. Cedar blocks. ....	17,071.34	4,814.54
Unfinished.	Sackley & Peterson. ....	C. F. Macadam. ....	8,444.44	1,900.00
Oct. 5, 1892	Olaf Vider. ....	S. C. G. Cedar. ....	2,037.41	611.91
Nov. 9, 1892	Netterstrom & Bairstow. ....	C. F. Macadam. ....	4,127.77	1,238.88
June 11, 1892	J. V. McAdam & Co. ....	Curb Wall G. Cedar blocks. ....	4,447.35	1,050.55
Oct. 7, 1892	Olaf Vider. ....	C. G. Cedar repair. ....	9,919.79	2,625.83
June 4, 1892	Garden City P. & P. Co. ....	G. Cedar on Macadam	7,382.57	1,942.00
Dec. 4, 1892	A. J. McBean & Co. ....	G. Cedar repair. ....	10,690.65	4,373.45
Nov. 22, 1892	J. B. Smith & Co. ....	C. G. Cedar blocks. ....	4,892.47	1,295.07

## STREETS IMPROVED, NORTH

NAME OF STREET.	FROM	TO	COMMENCED.
Lawrence avenue.....	Sheffield avenue.....	Ashland avenue.....	July 20, 1892
*Linden place.....	Diversey avenue.....	Surf.....	.....
Larrabee.....	Deming court.....	Frederick.....	July 12, 1892
Lincoln avenue.....	Sheffield avenue.....	Belmont avenue.....	Sept. 1, 1892
Larrabee.....	Frederick.....	Fullerton avenue.....	July 11, 1892
*Magnolia.....	N. Fifty-ninth.....	Balmoral.....	.....
Maud avenue.....	Sheffield avenue.....	Racine avenue.....	April 19, 1892
Melrose.....	Halsted.....	Evanston avenue.....	May 1, 1892
*Milton avenue.....	Chicago avenue.....	Oak.....	.....
*Michigan.....	Wells.....	Franklin.....	.....
Newport avenue.....	Sheffield avenue.....	Halsted.....	May 10, 1892
Noble avenue.....	Sheffield avenue.....	Racine avenue.....	Sept. 5, 1892
Noble avenue.....	Racine avenue.....	Ashland avenue.....	Sept. 9, 1892
Otis.....	Division.....	Vedder.....	July 6, 1892
Osgood.....	Clybourn avenue.....	Fullerton avenue.....	Aug. 4, 1892
Pearson.....	Franklin.....	Market.....	Aug. 12, 1892
Penn.....	Division.....	Vedder.....	July 1, 1892
*Pleasant.....	Division.....	Vedder.....	.....
*Pine Grove avenue.....	Belmont avenue.....	South terminus.....	.....
Reta.....	Addison.....	Cornelia.....	Mar. 1, 1892
Rokeby.....	Addison.....	Grace.....	Aug. 2, 1892
Roscoe.....	N. Clark.....	Halsted.....	Aug. 24, 1892
Rubens avenue.....	Grand avenue.....	144 ft. north of Ernst.....	.....
Rush.....	Ohio.....	Erie.....	July 11, 1892
School.....	N. Clark.....	Halsted.....	April 22, 1892
School.....	Halsted.....	Evanston avenue.....	Aug. 15, 1892
Southport avenue.....	Grand avenue.....	144 ft. north of Ernst.....	.....
Southport avenue.....	Graceland avenue.....	Belmont avenue.....	.....
Sedgwick.....	Erie.....	Chicago avenue.....	April 22, 1892
*Stone.....	Division.....	Scott.....	.....
Thome.....	N. Clark.....	Southport avenue.....	.....
Vine.....	Division.....	Vedder.....	June 20, 1892
Vine.....	Division.....	Vedder.....	May 20, 1892
Vine.....	Vedder.....	Rees.....	July 26, 1892
Waubun avenue.....	Wellington avenue.....	Oakdale.....	July 24, 1892
*Waubun.....	Oakdale avenue.....	Surf.....	.....
Wellington.....	Sheffield avenue.....	Southport avenue.....	May 9, 1892
Wrightwood avenue.....	Southport avenue.....	C. & E. R. R.....	Aug. 24, 1892
Weed.....	Clybourn avenue.....	Eastern terminus.....	Aug. 4, 1892
*Wesson.....	Chicago avenue.....	Oak.....	.....

\*Private Contract.

## DIVISION, 1892—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
Nov. 22, 1892	Netterstrom & Bairstow	C. G. Macadam	16,677.56	3,947.58
.....	Marshall & Making	C. G. Macadam	1,540.00	462.00
July 25, 1892	Talbot Pav. Co.	C. G. Cedar blocks	1,324.81	450.30
Nov. 8, 1892	J. B. Smith & Co.	C. G. Cedar blocks	17,028.88	5,872.03
Aug. 20, 1892	P. Farrell	C. G. Cedar blocks	1,026.27	384.85
.....	Dolese & Shepard	C. G. Macadam	4,213.33	1,264.00
June 4, 1892	Olaf Vider	S. C. F. Cedar blocks	5,914.83	1,774.45
June 3, 1892	J. B. Smith & Co.	C. F. Cedar blocks	4,257.75	1,277.33
.....	Olaf Vider	G. Cedar blk. repair	5,113.22	1,353.50
.....	James Conlan	G. Granite blocks	1,474.35	336.50
June 18, 1892	A. J. McBean & Co.	C. F. Cedar blocks	4,728.41	1,329.87
Oct. 2, 1892	A. J. McBean & Co.	C. G. Cedar blocks	4,801.26	1,440.38
Oct. 7, 1892	A. J. McBean & Co.	C. G. Cedar blocks	10,328.30	2,446.18
Aug. 18, 1892	J. B. Smith & Co.	S. C. G. Cedar	1,158.77	434.54
Sept. 2, 1892	J. B. Smith & Co.	S. C. G. Cedar blocks	11,922.00	3,576.60
Aug. 13, 1892	Garden City P. & P. G. Co.	G. Cedar blocks	1,490.54	351.18
Aug. 19, 1892	J. B. Smith & Co.	S. C. G. Cedar blocks	1,182.62	448.09
.....	Olaf Vider	S. C. G. Cedar blocks	1,182.62	448.09
.....	Netterstrom & Bairstow	C. F. Cedar blocks	1,042.47	291.60
June 15, 1892	Sackley & Peterson	C. F. Macadam	2,066.00	619.80
Nov. 3, 1892	C. B. Parsons	C. F. Macadam	4,911.30	1,485.10
Sept. 12, 1892	A. J. McBean & Co.	C. G. Cedar blocks	8,710.14	1,113.04
Unfinished.	C. B. Parsons	C. F. Macadam	.....	850.00
Aug. 2, 1892	A. J. McBean & Co.	S. C. G. Cedar on Macadam	1,694.91	448.65
June 3, 1892	J. B. Smith & Co.	C. G. Cedar blocks	2,639.73	742.42
Sept. 5, 1892	A. J. McBean & Co.	C. G. Cedar blocks	4,539.45	1,276.72
Unfinished.	C. B. Parsons	C. & F. Macadam	.....	850.00
Unfinished.	Netterstrom & Bairstow	C. F. Cedar	.....	3,800.00
April 27, 1892	Olaf Vider	Curb Wall G. Cedar blocks	3,815.45	740.42
.....	Western P. & S. Co.	S. C. G. Sheet asphalt	1,127.33	267.00
Unfinished.	C. B. Parsons	C. F. Macadam	.....	1,260.00
June 25, 1892	Talbot Pav. Co.	G. Cedar blocks	1,125.05	433.00
June 11, 1892	D. H. Thatcher	Curb stone	.....	433.00
July 26, 1892	J. B. Smith & Co.	G. Cedar blocks	826.59	437.61
Nov. 1, 1892	C. B. Parsons	C. G. Macadam	1,025.97	307.79
.....	C. B. Parsons	C. G. Macadam	1,313.33	394.00
Aug. 15, 1892	C. M. Netterstrom	C. G. Cedar blocks	18,460.88	2,528.91
Nov. 3, 1892	J. B. Smith & Co.	C. G. Cedar blocks	2,785.94	659.83
Aug. 6, 1892	Olaf Vider	Curb Wall F. Cedar	713.71	256.98
.....	Olaf Vider	Curb Wall G. Cedar	5,113.22	1,353.50
TOTAL			825,046.55	104,134.67

Lineal feet paving..... 98,202.67 feet, or 17.65 miles.

Unpaved streets, lineal feet curbing..... 10,932.00 feet, or 2.07 miles.

GRAND TOTALS..... 104,134.67 feet, or 19.72 miles.



## STREETS IMPROVED,

NAME OF STREET.	FROM	TO	COMMENCED.
Alley.....	Lake to Oakenwald....	Forty-second to Orchard	April 29, 1892
*Alley.....	Lake to Greenwood....	Forty-second to Forty-third....	Oct. 14, 1892
Alley.....	Twenty-first to Twenty-second..	State to Dearborn.....	April 27, 1892
Alley.....	Twenty-first to Twenty-second..	Wabash avenue to Michigan ave.	May 19, 1892
Alley.....	Twenty-second to Twenty-third..	State to Dearborn.....	July 12, 1892
Alley.....	Twenty-second to Twenty-third..	Prairie avenue to Calumet avenue	May 7, 1892
Alley.....	Twenty-third to 147 ft. n. of 24th	Michigan avenue to Indiana ave.	May 7, 1892
Alley.....	Twenty-seventh to Thirty-first..	La Salle to Wentworth avenue....	.....
Alley.....	Twenty-ninth to Thirtieth....	Wabash avenue to Michigan ave.	Nov. 17, 1892
Alley.....	Thirtieth to Thirty-first....	Prairie avenue to Calumet avenue	April 26, 1892
Alley.....	Thirty-sixth to Thirty-seventh ct.	Dearborn to Armour....	June 20, 1892
Alley.....	Thirty-seventh to 37th court...	Wabash avenue to Michigan ave.	April 9, 1892
Alley.....	Vincennes.....	North of Aldine square.	May 13, 1892
Alley.....	Prairie to Calumet....	Twenty-ninth to Ray...	April 26, 1892
Alley.....	Bonfield to Deering....	North of Archer avenue.	July 11, 1892
*Alley.....	Croveland park to Woodlawn park	Cottage Grove avenue to I.C.R.R.	.....
*Alley.....	Thirty-third to Groveland park..	Cottage Grove avenue to I.C.R.R.	.....
Alley.....	Monroe Theatre court..	West of State street....	July 28, 1892
*Alley.....	North of Thirty-ninth....	W. of Cottage Grove ave.	.....
Ashland avenue.....	Fifty-fifth.....	Fifty-ninth.....	Nov. 21, 1891
Armour avenue.....	Twenty-second.....	Twenty-fifth.....	Aug. 3, 1892
Armour avenue.....	Twenty-fifth.....	Twenty-sixth.....	April 13, 1892
Auburn.....	Thirty-first.....	Thirty-fifth.....	July 19, 1892
Armour avenue.....	Gordon.....	Forty-seventh.....	July 12, 1892
Armour avenue.....	Fifty-third.....	Fifty-fifth.....	.....
Baltimore avenue.....	Eighty-third.....	Commercial.....	Oct. 27, 1892
Bond avenue.....	Seventy-ninth.....	Eightieth.....	Aug. 15, 1892
Boulevard place.....	Vincennes.....	Grand.....	Aug. 18, 1892
Butler.....	Twenty-fourth.....	Thirty-first.....	Dec. 10, 1891
Butler.....	Thirty-third.....	Thirty-third.....	Aug. 20, 1892
*Burton place.....	Wabash avenue.....	East.....	.....
Calumet avenue.....	Forty-third.....	Fifty-first.....	Aug. 1, 1892
Champlain avenue.....	Forty-seventh.....	Forty-ninth.....	June 21, 1892
Champlain avenue.....	Forty-ninth.....	Fiftieth.....	June 28, 1892
Cottage Grove avenue.....	Forty-fourth.....	Fifty-first.....	Oct. 8, 1892
Calumet avenue.....	Thirty-seventh.....	Thirty-eighth.....	May 2, 1892
Church place.....	Archer avenue.....	Fuller.....	Jan. 7, 1892
Congress.....	State.....	Wabash avenue.....	Dec. 5, 1892
Centre avenue.....	Fifty-first.....	Fifty seventh.....	Aug. 16, 1892
Drexel avenue.....	Sixtieth.....	Sixty-third.....	Oct. 24, 1891
Drexel avenue.....	Fifty-first.....	Fifty-fifth.....	July 15, 1892
Drexel avenue.....	Fifty-fifth.....	Fifty-ninth.....	Aug. 20, 1891
Dearborn.....	Forty-third.....	Forty-seventh.....	June 22, 1892
Douglas avenue.....	Western avenue.....	California avenue.....	.....
Dickey.....	Seventy-first.....	Seventy-second.....	June 8, 1892
Englewood avenue.....	Wallace.....	Halsted.....	Sept. 1, 1892

\*Private Contract.

## SOUTH DIVISION, 1892.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
May 12, 1892	R. F. Conway.....	W. C. P. Cedar.....	2,124.84	1,374.00
Nov. 10, 1892	Talbot Paving Co.....	W. C. & P. Cedar....	352.33	226.50
May 12, 1892	P. Farrell.....	W. C. & P. Cedar....	1,262.12	378.64
June 3, 1892	Garden City P. & P. Co. ....	W. C. & P. Cedar....	1,440.20	976.07
Aug. 5, 1892	P. Farrell.....	W. C. & P. Cedar....	1,014.60	608.76
May 14, 1892	A. J. McBean & Co.....	W. C. & P. Cedar....	1,454.85	808.18
May 16, 1892	A. J. McBean & Co.....	W. C. & P. Cedar....	982.63	451.20
.....	Garden City P. & P. Co.....	W. C. & P. Cedar....	3,822.76	2,200.28
Nov. 21, 1892	Garden City P. & P. Co.....	W. C. & P. Cedar....	1,726.13	824.00
May 16, 1892	J. V. McAdam.....	W. C. & P. Cedar....	2,133.67	1,016.52
June 25, 1892	Garden City P. & P. Co.....	W. C. & P. Cedar....	1,140.98	597.02
Sept. 15, 1892	A. J. McBean & Co.....	W. C. & Cedar.....	474.69	267.01
May 16, 1892	A. J. McBean & Co.....	W. C. & Cedar.....	594.24	351.52
April 28, 1892	Talbot Paving Co.....	W. C. & Cedar.....	666.75	375.05
Aug. 8, 1892	P. Farrell.....	W. C. & Cedar.....	310.77	330.80
.....	R. F. Conway.....	W. C. & Cedar.....	1,182.22	665.00
.....	Talbot Paving Co.....	Sheet Asphalt.....	1,060.00	620.00
Aug. 6, 1892	James Conlan.....	Granite.....	281.99	169.19
.....	.....	Cedar pavement.....	166.67	150.00
April 26, 1892	R. F. Conway.....	C. S. F. & Cedar.....	9,200.00	2,640.00
Oct. 16, 1892	P. Farrell.....	C. S. & Cedar.....	7,789.46	1,844.87
May 11, 1892	P. Farrell.....	C. S. & Cedar.....	2,534.49	600.27
Aug. 11, 1892	R. F. Conway.....	C. S. & Cedar.....	11,232.49	2,660.33
Aug. 6, 1892	Garden City P. & P. Co.....	C. S. & Cedar.....	9,200.00	2,340.00
.....	Dolese & Shepard.....	W. C. Macadam.....	.....	1,200.00
Unfinished.	G. R. Rockfeller.....	Macadam.....	2,800.00	1,400.00
Oct. 15, 1892	Kimball Cobb Stone Co.....	W. C. Macadam.....	2,416.06	632.00
Oct. 31, 1892	Dolese & Shepard.....	S. C. Macadam.....	2,544.70	643.20
April 25, 1892	Garden City P. & P. Co.....	S. C. & Cedar.....	13,057.43	3,092.55
Sept. 13, 1892	Garden City P. & P. Co.....	S. C. & Cedar.....	6,633.82	1,571.17
.....	R. F. Conway.....	Granite blocks.....	333.33	150.00
Unfinished.	W. P. & S. Co.....	S. C. & Asphalt.....	15,400.00	3,600.00
Sept. 15, 1892	J. J. Palmer & Co.....	S. C. & Repav. Macadam....	5,539.50	1,277.00
Sept. 15, 1892	J. J. Palmer & Co.....	S. C. & Macadam.....	2,884.60	663.50
Unfinished.	R. F. Conway.....	S. C. C. & Macadam.....	7,400.00	1,500.00
May 3, 1892	Garden City P. & P. Co.....	S. C. & Cedar.....	2,024.25	607.28
May 27, 1892	P. Farrell.....	S. C. Cedar.....	2,108.17	486.50
Dec. 16, 1892	A. J. McBean & Co.....	Cedar on Macadam, Repaved..	1,492.67	353.53
Oct. 10, 1892	J. V. McAdam.....	C. F. & Cedar.....	16,600.00	4,960.00
Dec. 10, 1892	Dolese & Shepard.....	W. C. & Macadam.....	7,027.00	1,807.00
Oct. 25, 1892	Eggleston M. & B.....	S. C. Macadam.....	12,522.67	2,269.00
April 20, 1892	Kimball & Cobb Stone Co.....	S. C. Macadam.....	935.00	275.00
Aug. 9, 1892	Garden City P. & P. Co.....	C. F. & Cedar.....	10,400.00	2,640.00
Unfinished.	R. F. Conway.....	C. F. & Cedar.....	7,500.00	2,640.00
July 16, 1892	Eggleston, M. & B.....	Macadam.....	2,400.00	700.00
Nov. 26, 1892	Eggleston, M. & B.....	Macadam.....	4,300.00	1,320.00

## STREETS IMPROVED, SOUTH

NAME OF STREET.	FROM	TO	COMMENCED.
Emerald.....	Thirty-ninth.....	Forty-third.....	Aug. 9, 1892
Egan avenue.....	Wentworth avenue.....	Halsted.....	Sept. 17, 1891
Ellis avenue.....	Thirty-ninth.....	Forty-first.....	Sept. 9, 1892
*Eighty-seventh.....	Buffalo avenue.....	Mackinaw.....	
*Eighty-eighth.....	Superior.....	Mackinaw.....	
*Eighty-ninth.....	The Strand.....	Mackinaw.....	
Eighty-ninth.....	South Park avenue.....	St. Lawrence avenue.....	Sept. 1, 1892
Eighty-ninth place.....	South Park avenue.....	Dauphin Park avenue.....	Sept. 1, 1892
*Eighteenth.....	Prairie avenue.....	Calumet.....	Dec. 5, 1892
Eighteenth.....	Wabash avenue.....	Indiana avenue.....	Oct. 15, 1892
Eldridge court.....	State.....	Michigan avenue.....	Nov. 7, 1892
Fifth avenue.....	Van Buren.....	Harrison.....	Oct. 1, 1892
Fourteenth.....	Wabash avenue.....	Michigan avenue.....	April 22, 1892
Fourteenth.....	Michigan avenue.....	Indiana avenue.....	June 27, 1892
Forty-first.....	Grand boulevard.....	State.....	Aug. 19, 1892
Forty-fourth.....	Drexel boulevard.....	Cottage Grove avenue.....	July 25, 1892
Forty-fifth.....	Drexel boulevard.....	Grand boulevard.....	Sept. 10, 1892
Forty-sixth.....	Drexel boulevard.....	Grand boulevard.....	Oct. 6, 1891
Forty-seventh.....	Cottage Grove avenue.....	State.....	Oct. 3, 1892
Fiftieth.....	Drexel boulevard.....	Cottage Grove avenue.....	Sept. 16, 1892
Fifty-third.....	Drexel boulevard.....	Cottage Grove avenue.....	July 1, 1892
Fifty-fourth.....	Drexel boulevard.....	Cottage Grove avenue.....	May 7, 1892
Fifty-seventh.....	Woodlawn avenue.....	Cottage Grove avenue.....	April 18, 1892
Fifty-ninth.....	State.....	South Park avenue.....	May 16, 1892
Forty-third.....	State.....	Halsted.....	Oct. 28, 1891
Forty-fifth.....	State.....	Wentworth avenue.....	July 23, 1892
Fifty-sixth & Fifty-seventh.....	Halsted.....	Centre avenue.....	Aug. 18, 1892
Forty-fourth.....	Winter.....	Stewart avenue.....	Oct. 6, 1892
Forty-seventh.....	Halsted.....	Paulina.....	May 19, 1892
*Forrest Hill subdivision.....	Eighty-third.....	Western avenue.....	April 6, 1892
*Green, Peoria, Sangamon.....	Sixty-fourth.....	Sixty-fifth.....	
Gross avenue.....	Forty-fifth.....	Forty-seventh.....	Sept. 13, 1892
Gordon.....	State.....	Armour.....	June 29, 1892
Gordon.....	Winter.....	Green.....	Oct. 6, 1892
*Greenwood avenue.....	Sixtieth.....	Sixty-third.....	Feb. 24, 1892
Honore.....	Sixty-ninth.....	Seventy-first.....	May 22, 1892
Indiana.....	Twenty-ninth.....	Thirtieth.....	Sept. 19, 1892
Ingleside avenue.....	Fifty-fifth.....	Fifty-ninth.....	Sept. 16, 1892
Indiana avenue.....	Forty-third.....	Fifty-first.....	Aug. 17, 1892
Jackson avenue.....	Fifty-fourth.....	Fifty-ninth.....	May 2, 1892
Joseph.....	Archer avenue.....	Hickory.....	Oct. 10, 1892
Kenwood place.....	Vincennes avenue.....	Grand.....	Sept. 21, 1892
Langley avenue.....	Ninety-first.....	Eighty-ninth.....	Sept. 1, 1892
Langley avenue.....	Fortieth.....	Forty-second.....	Oct. 29, 1891
*Lexington avenue.....	Fifty-sixth.....	Fifty-ninth.....	July 6, 1892
Lexington avenue.....	Sixty-third.....	Sixty-fifth.....	July 25, 1892

\*Private Contract.

## STREET DEPARTMENT.

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## DIVISION, 1892—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
Dec. 29, 1892	R. F. Conway.....	C. F. & Cedar.....	11,000.00	2,640.00
April 26, 1892	Garden City P. & P. Co.....	C. F. & Cedar.....	5,000.00	4,900.00
Oct. 20, 1892	Barber Asphalt P. Co.....	Comb. Curb & Gutter, Rep. As.	6,201.05	1,692.00
.....	Illinois Steel Co.....	W. C. Macadam.....	780.00	390.00
.....	Illinois Steel Co.....	W. C. Macadam.....	1,426.00	713.00
.....	Illinois Steel Co.....	W. C. Macadam.....	2,778.00	680.00
Unfinished.	J. J. Palmer.....	G. Macadam.....	1,533.00	1,322.00
Unfinished.	J. J. Palmer.....	G. Macadam.....	5,328.00	2,664.00
Dec. 16, 1892	Barber Asphalt Co.....	Repave Asphalt.....	2,338.04	553.75
Nov. 10, 1892	A. J. McBean & Co.....	C. S. & Cedar.....	2,075.09	848.90
Nov. 29, 1892	Barber Asphalt Co.....	C. S. & S. Asphalt.....	3,076.90	728.21
Oct. 17, 1892	A. J. McBean & Co.....	Repave C. on Macad.	3,093.68	870.10
April 29, 1892	J. B. Smith & Co.....	Cedar blocks.....	1,283.95	385.18
Aug. 12, 1892	J. B. Smith & Co.....	Cedar blocks.....	1,288.26	386.48
Unfinished.	Dolese & Shepard.....	Stone C. on Macadam	4,533.35	1,200.00
Oct. 30, 1892	Kimball Cobb Stone Co.....	Stone C. on Macadam	2,007.00	513.30
Unfinished.	Dolese & Shepard.....	Stone C. Repave on Macadam.	4,911.11	1,300.00
May 16, 1892	Jas. Conlan.....	C. S. & Macadam.....	3,287.50	870.00
Unfinished.	W. F. Hair.....	C. S. & Repave C. on Macadam	7,200.00	2,300.00
Oct. 15, 1892	Garden City P. & P. Co.....	C. S. Cedar.....	2,256.80	512.14
July 15, 1892	A. J. McBean & Co.....	C. S. Cedar.....	2,120.22	560.00
July 16, 1892	James Conlan.....	S. C. Macadam.....	2,342.60	560.00
Aug. 3, 1892	Kimball Cobb Stone Co.....	S. C. Macadam.....	10,555.55	2,436.00
June 25, 1892	J. V. McAdam.....	S. C. & C.....	9,235.60	2,273.00
July 26, 1892	W. F. Hair.....	C. F. & Cedar.....	22,400.00	5,280.00
Aug. 27, 1892	P. Farrell.....	C. F. & Cedar.....	4,500.00	1,320.00
Oct. 15, 1892	R. F. Conway.....	C. F. & Cedar.....	23,800.00	5,280.00
Oct. 31, 1892	P. Farrell.....	C. F. & Cedar.....	7,327.00	1,650.00
June 29, 1892	Garden City P. & P. Co.....	C. F. & Cedar.....	18,700.00	5,940.00
Unfinished.	Eggleston, M. & B.....	Macadam.....	52,800.00	15,840.00
.....	Eggleston, M. & B.....	Macadam.....	6,000.00	1,800.00
Dec. 21, 1892	R. F. Conway.....	S. C. & P. C.....	6,400.00	1,600.00
Aug. 8, 1892	J. B. Smith & Co.....	C. F. & Cedar.....	1,500.00	520.00
Oct. 29, 1892	P. Farrell.....	C. F. & Cedar.....	6,700.00	1,530.00
July 22, 1892	Thos. Byrne.....	W. C. Macadam.....	16,637.93	1,890.00
Nov. 6, 1892	Kimball Cobb Stone Co.....	Macadam.....	4,300.00	1,320.00
Oct. 13, 1892	Sackley & Peterson.....	C. on Macadam.....	2,525.83	811.86
Unfinished.	J. J. Palmer.....	S. C. and Macadam.....	6,333.33	1,500.00
Oct. 13, 1892	Garden City P. & P. Co.....	S. C. and Repave C.....	23,898.72	5,162.40
Aug. 13, 1892	Kimball Cobb Stone Co.....	S. C. Macadam.....	12,500.00	3,201.40
Dec. 14, 1892	R. F. Conway.....	C. S. and Cedar.....	2,874.67	718.67
Dec. 13, 1892	Sackley & Peterson.....	C. S. and Macadam.....	2,521.67	639.10
Unfinished.	J. J. Palmer.....	G. and Macadam.....	2,530.00	1,265.00
April 16, 1892	Dolese & Shepard.....	C. S. and Macadam.....	3,259.60	862.00
Nov. 25, 1892	Kimball Cobb Stone Co.....	C. S. Macadam.....	7,078.80	1,873.60
Dec. 10, 1892	Dolese & Shepard.....	W. C. and Macadam.....	5,292.00	1,360.30

## STREETS IMPROVED, SOUTH

NAME OF STREET.	FROM	TO	COMMENCED.
Lowe avenue.....	System of streets.....		Sept. 14, 1892
*Madison.....	Wabash avenue.....	Michigan avenue.....	
Madison avenue.....	Sixtieth.....	Sixty-sixth.....	April 16, 1892
*Mackinaw.....	Eighty-seventh.....	Eighty-ninth.....	
Michigan avenue.....	Fifty-fifth.....	Sixty third.....	Sept. 10, 1891
Ninetieth.....	South Park avenue.....	I. C. R. R.....	Sept. 1, 1892
Ninetieth place.....	South Park avenue.....	Dauphin Park avenue.....	Sept. 1, 1892
Ninety-first.....	Cottage Grove avenue.....	Dauphin Park avenue.....	Sept. 1, 1892
Prairie avenue.....	Twenty-fifth.....	Twenty-sixth.....	Oct. 30, 1892
Prairie avenue.....	Thirty-first.....	Thirty-third.....	Sept. 5, 1892
Parnell avenue.....	Thirty-fifth.....	Thirty-seventh.....	Oct. 8, 1892
*Pacific avenue.....	Taylor.....	200 feet north.....	
*Pierce.....	Lake avenue.....	I. C. R. R.....	
Prairie avenue.....	Thirty-ninth.....	Fifty-first.....	Aug. 2, 1892
*Quincy.....	Clark.....	West 115 feet.....	May 7, 1892
Spring.....	State.....	Wentworth avenue.....	May 7, 1892
South Park avenue.....	Fifty-sixth.....	Sixtieth.....	Sept. 1, 1892
Star avenue.....	Robertson avenue.....	South End.....	Sept. 6, 1892
St. Lawrence avenue.....	Forty-fifth.....	Fifty-first.....	Oct. 30, 1891
Seventy-second.....	Yates.....	Stony Island avenue.....	Sept. 20, 1892
Seventeenth.....	State.....	Clark.....	May 2, 1892
State.....	P. F. W. & C. Ry.....	Sixty-eighth.....	July 11, 1892
Stewart ave. system of sts.....	119th.....	123rd.....	
Sixty-third.....	Wallace.....	Halsted.....	Oct. 17, 1892
Sixty-fourth.....	Wallace.....	Winter.....	June 8, 1892
Stewart avenue.....	S. Normal Parkway.....	Sixty-ninth.....	Sept. 22, 1892
Stewart avenue.....	Seventy-seventh.....	Seventy-ninth.....	April 1, 1892
Sixtieth.....	Halsted.....	Winter.....	Sept. 12, 1892
Sixty-first.....	Halsted.....	Winter.....	Aug. 18, 1892
Sixty-fifth.....	Halsted.....	Winter.....	July 18, 1892
Seventy-third.....	Stewart avenue.....	State.....	April 8, 1892
Seventy-fourth.....	Stewart avenue.....	Vincennes avenue.....	Oct. 10, 1892
Sixty-sixth.....	Stewart avenue.....	Sherman.....	April 28, 1892
System in Thirtieth Ward.....			Sept. 21, 1892
Superior.....	Eighty-seventh.....	Ninety-second.....	Oct. 10, 1892
St. Lawrence avenue.....	Ninety-first.....	Eighty-ninth.....	Sept. 1, 1892
Twenty-second.....	State.....	Indiana avenue.....	June 4, 1892
Twenty-fifth.....	Prairie avenue.....	Calumet avenue.....	April 29, 1892
Twenty-eighth.....	Halsted.....	Stewart.....	Aug. 16, 1892
Thirtieth.....	Halsted.....	Stewart.....	Aug. 15, 1892
Thirty-second.....	Courtland.....	Lowe.....	Oct. 1, 1892
Thirty-third.....	C. R. I. & P. Ry.....	Halsted.....	Sept. 27, 1892
Thirty-fifth.....	Archer.....	Western avenue.....	Jan. 4, 1892
Thirty-sixth.....	Vincennes.....	Rhodes.....	June 1, 1892
Thirty-seventh court.....	Wabash avenue.....	Michigan avenue.....	Oct. 17, 1892
*Thirty-seventh court.....	Michigan avenue.....	Indiana avenue.....	

\*Private Contract.

## DIVISION, 1892—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
Nov. 8, 1892	Garden City P. & P. Co.	C. S. and Cedar	25,324.00	6,000.00
.....	Garden City P. & P. Co.	C. on Macadam	1,622.22	365.00
Sept. 1, 1892	Kimball Cobb Stone Co.	C. S. and Macadam	16,156.00	3,929.00
.....	Illinois Steel Co.	W. C. Macadam	2,720.00	1,360.00
July 1, 1892	Thos. Byrne	Macadam	30,000.00	5,340.00
Dec. 31, 1892	J. J. Palmer	G. Macadam	6,130.00	3,065.00
Dec. 31, 1892	J. J. Palmer	G. Macadam	5,652.00	2,826.00
Dec. 31, 1892	J. J. Palmer	G. Macadam	842.00	421.00
Nov. 16, 1892	Barber Asphalt P. Co.	Sheet Asphalt	2,700.71	639.64
Oct. 12, 1892	Garden City P. & P. Co.	St. C. and Cedar	6,165.94	1,460.35
Nov. 8, 1892	Garden City P. & P. Co.	St. C. and Cedar	5,595.33	1,325.21
.....	Jas. Conlan	Repave Granite	1,466.67	200.00
.....	A. J. McBean	W. C. and Cedar	703.30	210.70
Unfinished.	Dolese & Shepard	Comb. C. & G. Repav. Macadam	22,222.00	4,000.00
May 25, 1892	J. L. Fulton	Repav. St. Asphalt	204.44	115.00
May 25, 1892	Pat. Farrell	S. C. Cedar	3,137.47	1,008.47
Unfinished.	Eggleston, M. & B.	S. C. Macadam	3,166.67	1,500.00
Oct. 15, 1892	Talbot Paving Co.	W. C. Cedar	2,232.00	724.80
May 5, 1892	Sackley & Peterson	S. C. Macadam	16,723.40	3,826.50
Unfinished.	J. Robinson	W. C. Macadam	5,690.00	1,600.00
May 4, 1892	A. J. McBean & Co.	Cedar	2,713.63	642.70
Aug. 17, 1892	A. J. McBean & Co.	C. F. & Cedar	14,800.00	3,200.00
.....	Eggleston, M. & B.	W. C. and Macadam	40,950.00	12,285.00
Nov. 20, 1892	P. Farrell	C. F. and Cedar	3,800.00	1,320.00
July 26, 1892	C. B. Parsons	Macadam	2,400.00	710.00
Oct. 22, 1892	Eggleston, M. & B.	Macadam	1,200.00	300.00
Sept. 21, 1892	Rockfeller & Palmer	Macadam	4,700.00	1,320.00
Oct. 8, 1892	Eggleston, M. & B.	Macadam	2,500.00	660.00
Sept. 10, 1892	Eggleston, M. & B.	Macadam	2,500.00	660.00
Sept. 21, 1892	Eggleston, M. & B.	Macadam	4,300.00	1,320.00
Sept. 24, 1892	Rockfeller & Palmer	Macadam	10,000.00	2,650.00
Unfinished.	Eggleston, M. & B.	Macadam	5,000.00	1,320.00
June 2, 1892	Sackley & Peterson	Macadam	4,600.00	1,420.00
Unfinished.	J. J. Palmer & Co.	Macadam	25,300.00	7,600.00
Unfinished.	Dolese & Shepard	W. C. F. Macadam	15,614.00	3,346.00
Unfinished.	J. J. Palmer	G. and Macadam	2,530.00	1,265.00
June 11, 1892	Garden City P. & P. Co.	Repave and C. on Macadam	3,134.80	1,291.09
May 2, 1892	Garden City P. & P. Co.	Repave C.	1,758.73	416.54
Sept. 7, 1892	Garden City P. & P. Co.	C. S. and Cedar	9,212.84	2,182.00
Sept. 17, 1892	Garden City P. & P. Co.	C. S. and Cedar	9,347.03	2,213.77
Nov. 30, 1892	Garden City P. & P. Co.	C. S. and Cedar	5,956.50	1,410.75
Oct. 28, 1892	Garden City P. & P. Co.	C. S. and Cedar	16,747.56	3,966.53
Sept. 2, 1892	R. F. Conway	C. S. and Cedar	7,685.90	1,820.34
June 7, 1892	Barber Asphalt P. Co.	Repav. Sheet Asphalt	2,880.77	823.25
Nov. 22, 1892	Dolese & Shepard	S. C. Macadam	1,628.89	385.79
.....	Garden City P. & P. Co.	C. F. and Cedar	1,400.22	331.63

## STREETS IMPROVED, SOUTH

NAME OF STREET.	FROM	TO	COMMENCED.
Union avenue .....	Forty-seventh.....	Fifty-fifth .....	Sept. 4, 1891
Vincennes avenue.....	Ninety-first.. . . .	Eighty-ninth.....	Sept. 1, 1892
*Vernon avenue.....	Forty-third.. . . .	294 feet south.....	
Wallace.....	Thirty-ninth.....	Forty-seventh.....	Oct. 24, 1892
Washington avenue.....	Ninety-first .....	Ninety-fifth.....	June 1, 1892
Wright .....	Seventy-first .....	Seventy-third.....	Aug. 20, 1891
Wabash avenue.....	Twenty-second .....	Thirty fifth.....	June 21, 1892
*Wentworth avenue.....	Eighteenth.....	Nineteenth.....	

\*Private Contract.

## DIVISION, 1892—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
June 16, 1892	R. F. Conway.....	C. F. and Cedar.....	28,000.00	5,280.00
Unfinished.	J. J. Palmer.....	G. and Macadam.....	2,590.00	1,265.00
	Dolese & Shepard.....	Comb. C. and G. Macadam..	980.00	294.00
Dec. 9, 1892	W. F. Hair, P. Farrell, Garden City P & P..	C. F. and Cedar.....	24,000.00	5,280.00
Oct. 16, 1892	Kimball Cobb Stone Co.....	Macadam.....	4,442.00	2,221.00
July 22, 1892	Eggleston, Mallette & Brownell	Macadam.....	2,400.00	700.00
Aug. 5, 1892	Garden City P. & P. Co.....	C. on Macadam.....	87,774.28	8,386.71
	Garden City P. & P. Co.....	Repave Cedar.....	1,847.50	319.14
		TOTALS.....	971,487.61	267,098.24

Lineal feet paving.....208,671.24 feet, or 39.52 miles.

On unpaved streets, lineal feet curbing, filling, etc.. 58,427.00 feet, or 11.07 miles.

GRAND TOTALS.....267,098.24 50.59 miles.



## STREETS IMPROVED,

NAME OF STREET.	FROM	TO	COMMENCED.
Alley.....	Harrison to Gurley.....	Sholto to Miller.....	April 20, 1892
Alley.....	Throop to Loomis.....	Jackson to Adams.....	May 16, 1892
Alley.....	Leavitt to Irving.....	North to Jackson.....	June 27, 1892
Alley.....	Hoynes to Seeley.....	Adams to Monroe.....	June 10, 1892
Alley.....	Lincoln to Winchester..	South of Madison.....	June 25, 1892
Alley.....	Honore to Wood.....	Harrison to Congress..	June 7, 1892
Alley.....	Honore to Lincoln.....	Jackson to Adams.....	June 1, 1892
Alley.....	Lafin to Ashland ave..	Van Buren to Jackson..	July 1, 1892
Alley.....	Loomis to Lafin.....	Adams to Monroe.....	July 8, 1892
Alley.....	Morgan to Polk.....	W. of Blue Island ave..	June 15, 1892
Alley.....	Wood to Honore.....	Van Buren to Jackson..	July 8, 1892
Alley.....	Leavitt to Western ave..	Madison to Warren ave..	May 14, 1892
Alley.....	Oakley to Western ave..	Fulton to Walnut.....	Aug. 2, 1892
Alley.....	Paulina to Wood.....	Madison to Warren ave..	July 8, 1892
Alley.....	Loomis to Lafin.....	Congress to Van Buren..	Aug. 6, 1892
Alley.....	Morgan to Sangamon..	Adams to Monroe.....	July 8, 1892
Alley.....	Green to Peoria.....	Jackson to Adams.....	July 8, 1892
Alley.....	Ada to Sheldon.....	Madison to Washington..	Aug. 20, 1892
Alley.....	Wood to Lincoln.....	Fulton to Carroll ave..	Aug. 26, 1892
Alley.....	Aberdeen to Centre ave..	Jackson to Adams.....	June 15, 1892
Alley.....	Jefferson to Desplaines..	Twelfth to Bunker.....	July 8, 1892
Alley.....	Lincoln to Winchester..	Adams to Monroe.....	Sept. 1, 1892
Alley.....	Robey to Winchester..	Monroe to Madison.....	Aug. 26, 1892
Alley.....	Aron Place to Van Buren..	Robey to Hoyne.....	Sept. 7, 1892
Alley.....	Western to Campbell..	Wilcox to Monroe.....	Sept. 6, 1892
Alley.....	Monroe to Adams.....	Robey to Winchester..	Aug. 11, 1892
Alley.....	Clinton to Jefferson..	Sebor to Harrison.....	Sept. 12, 1892
Alley.....	Randolph to Lake.....	Clinton to Jefferson..	Aug. 26, 1892
Alley.....	Van Buren to Boston..	Desplaines to Halsted..	Aug. 26, 1892
Alley.....	Canal to Clinton.....	Adams to Monroe.....	July 8, 1892
Alley.....	Randolph to Lake.....	Morgan to Carpenter..	Aug. 26, 1892
Alley.....	Randolph to Lake.....	Green to Peoria.....	Aug. 26, 1892
Alley.....	Madison to Monroe.....	Desplaines 404 ft. west.	Oct. 26, 1892
Alley.....	Loomis to Lafin.....	Jackson to Adams.....	Oct. 27, 1892
Alley.....	Aberdeen to Centre ave..	Adams to Monroe.....	.....
Alley.....	Centre avenue to Throop..	Van Buren to Jackson..	Dec. 1, 1892
Alley.....	First n. of Washington..	Jefferson street east..	Nov. 5, 1892
Alley.....	Loomis and Lafin.....	Jackson to Van Buren..	Nov. 11, 1892
Alley.....	First n. of Washington..	Willard Pl. to Elizabeth.	July 6, 1892
Alley.....	Carpenter to Curtis.....	Washington to Randolph..	Dec. 9, 1892
Alley.....	May to Ann.....	Washington to Randolph..	Dec. 15, 1892
Alley.....	Randolph to Lake.....	Canal to river.....	Nov. 15, 1892
Alley.....	Randolph to Washington..	Canal to West Water.....	.....
Alley.....	Halsted to Newberry..	Fourteenth to Maxwell..	July 18, 1892
Alley.....	Snell to Noble.....	Huron to Chicago ave..	April 11, 1892
Alley.....	Elizabeth to Ada.....	Ohio to Erie.....	May 8, 1892

## WEST DIVISION, 1892.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
May 4, 1892	A. J. McBean & Co	W. C. G. Cedar	682.00	408.00
June 7, 1892	Garden City P. & P	W. C. G. Cedar	1,244.00	600.00
June 30, 1892	Talbot Paving Co	W. C. G. Cedar	383.00	265.00
June 30, 1892	J. V. McAdam	W. C. G. Cedar	515.00	265.00
July 21, 1892	J. V. McAdam	W. C. G. Cedar	384.00	265.00
June 29, 1892	J. V. McAdam	W. C. G. Cedar	501.00	266.00
June 27, 1892	J. V. McAdam	W. C. G. Cedar	877.00	660.00
July 14, 1892	P. Farrell	W. C. G. Cedar	1,887.00	1,075.00
July 19, 1892	P. Farrell	W. C. G. Cedar	519.00	397.00
June 30, 1892	A. J. McBean & Co	W. C. G. Cedar	1,736.00	628.00
Aug. 8, 1892	R. F. Conway	W. C. G. Cedar	722.00	455.00
Aug. 21, 1892	J. V. McAdam	W. C. G. Cedar	2,103.00	1,108.00
Aug. 29, 1892	J. V. McAdam	W. C. G. Cedar	612.00	480.00
Aug. 25, 1892	R. F. Conway	W. C. G. Cedar	1,039.00	580.00
Aug. 23, 1892	A. J. McBean & Co	W. C. G. Cedar	1,869.00	1,175.00
Aug. 30, 1892	R. F. Conway	W. C. G. Cedar	590.00	396.00
Aug. 30, 1892	R. F. Conway	W. C. G. Cedar	770.00	396.00
Sept. 1, 1892	J. B. Smith & Co	W. C. G. Cedar	679.00	400.00
Sept. 2, 1892	J. V. McAdam	W. C. G. Cedar	1,000.00	600.00
Sept. 9, 1892	Andrew Jaicks	W. C. G. Cedar	1,382.00	256.00
Sept. 10, 1892	R. F. Conway	W. C. G. Cedar	576.00	360.00
Sept. 16, 1892	J. V. McAdam	W. C. G. Cedar	201.00	120.00
Sept. 22, 1892	J. V. McAdam	W. C. G. Cedar	523.00	658.00
Sept. 10, 1892	A. J. McBean & Co	W. C. G. Cedar	187.00	99.00
Sept. 26, 1892	J. V. McAdam	W. C. G. Cedar	1,023.00	712.00
Sept. 16, 1892	J. V. McAdam	W. C. G. Cedar	200.00	120.00
Sept. 28, 1892	J. B. Barnett	W. C. G. Cedar	480.00	360.00
Sept. 10, 1892	A. J. McBean & Co	W. C. G. Cedar	1,116.00	680.00
Oct. 1, 1892	J. B. Smith & Co	W. C. G. Cedar	177.00	165.00
Nov. 11, 1892	R. F. Conway	W. C. G. Cedar	816.00	500.00
Oct. 15, 1892	O. Vider	W. C. G. Cedar	795.00	658.00
Oct. 18, 1892	O. Vider	W. C. G. Cedar	692.00	455.00
Nov. 4, 1892	O. Vider	W. C. G. Cedar	781.00	404.00
Dec. 9, 1892	A. J. McBean & Co	W. C. G. & Cedar	2,043.00	1,100.00
Unfinished.	Patrick Farrell	W. C. G. Cedar	1,200.00	600.00
Dec. 15, 1892	A. J. McBean & Co	W. C. G. Cedar	2,482.00	1,162.00
Nov. 7, 1892	R. F. Conway	W. C. G. Cedar	224.00	150.00
Dec. 15, 1892	J. V. McAdam	W. C. G. Cedar	2,086.00	.....
Nov. 30, 1892	Western P. & S. Co	W. C. G. Asphalt	405.00	250.00
Dec. 16, 1892	O. Vider	W. C. G. Cedar	260.00	252.00
Dec. 22, 1892	A. J. McBean & Co	W. C. G. Cedar	1,060.00	650.00
Nov. 20, 1892	Talbot Paving Co	W. C. G. Cedar	760.00	380.00
.....	James Conlan	G. & P. Granite	480.00	230.00
July 26, 1892	J. V. McAdam	W. C. F. Cedar	635.83	481.50
April 28, 1892	J. B. Smith & Co	W. C. Cedar	970.56	805.00
May 12, 1892	R. F. Conway	W. C. Cedar	488.62	288.00

## STREETS IMPROVED, WEST

NAME OF STREET.	FROM	TO	COMMENCED.
Alley.....	Wood to Lincoln.....	Huron to Superior .. .	May 20, 1892
Alley.....	Noble to Bickerdike ..	Chicago ave. to Superior	May 21, 1892
Alley.....	Temple to Snell.....	Huron to Chicago ave..	May 9, 1892
Alley.....	Keith to Temple.....	Huron to Chicago ave..	May 21, 1892
Alley.....	Ohio to Erie.....	Temple to Elizabeth ..	May 26, 1892
Alley.....	Robey to Hoyne avenue	Erie to Huron.....	June 15, 1892
Alley.....	Armour to Ashland ave.	Erie to Huron.....	July 12, 1892
Alley.....	Bickerdike to Armour..	Huron to Superior .. .	July 16, 1892
Alley.....	Bickerdike to Armour..	Superior to Chicago ave.	July 14, 1892
Alley.....	Emma to Tell place...	Milwaukee to Ashland avenue...	June 15, 1892
Alley.....	Noble to Bickerdike...	Erie to Huron.....	July 25, 1892
Alley.....	Fry to Cornell.....	Milwaukee to Chase....	July 17, 1892
Alley.....	May to Centre avenue..	Superior to Chicago ave.	July 17, 1892
Alley.....	Noble to Holt.....	Cornell to Cornelia ..	Aug. 4, 1892
Alley.....	Paulina to Wood.....	Superior to Chicago....	Sept. 9, 1892
Alley.....	Noble to Bickerdike...	Huron to Superior .. .	Sept. 15, 1892
Alley.....	Crystal to Potomac....	Lincoln to Robey.....	Sept. 6, 1892
Alley.....	Holt to Ashland avenue	Clarinda to Frye. ....	Sept. 17, 1892
Alley.....	Noble to Ashland ave..	Emma to Augusta .. .	Aug. 15, 1892
Alley.....	Huron to Erie.....	May to Center avenue..	Oct. 1, 1892
Alley.....	Noble to Rose.....	Cornell to Chicago ave.	Aug. 1, 1892
Alley.....	Holt to Ashland avenue	Cornell to Cornelia ..	Sept. 10, 1892
Alley.....	Iowa to Augusta.....	Wood to Newton.....	Oct. 1, 1892
Alley.....	Ashland to Mantene ct.	Milwaukee to Division..	Oct. 10, 1892
Alley.....	Jane to Tell place....	Milwaukee to Ashland..	Sept. 9, 1892
Alley.....	Noble to Milwaukee avenue.	Cornell to Cornelia....	Sept. 13, 1892
Alley.....	Noble to Milwaukee avenue.	Cornell to Cornelia....	Sept. 12, 1892
Alley.....	Clarinda to Cornelia...	Samuel to Wood.....	Nov. 1, 1892
Alley.....	Cornelia to Augusta....	Samuel to Wood.....	Nov. 9, 1892
Alley.....	Clarinda to Chicago avenue.	Rumsey to Paulina....	Dec. 4, 1892
Alley.....	Hoyne avenue to Leavitt	Indiana to Emerson ..	Dec. 8, 1892
Alley.....	Cleaver to Noble.....	Bradley to Blackhawk..	Aug. 14, 1892
Alley.....	Cleaver to Noble.....	Blanch to Blackhawk...	Aug. 14, 1892
Alley.....	Cleaver to Holt.....	Blanch to Blackhawk...	Aug. 14, 1892
Alley.....	Chapin to Crittenden..	Currier to Noble.....	Aug. 25, 1892
Alley.....	Paulina to Dean .....	Brigham.....	Sept. 1, 1892
Alley.....	Cleaver to Division....	Noble to Milwaukee ave.	July 24, 1892
Alley.....	Cleaver to Division....	Milwaukee avenue.....	July 15, 1892
Alley.....	Cleaver to Division....	Bradley to Noble.....	Sept. 1, 1892
Alley.....	Front to May .....	Elston to Milwaukee ave.	Oct. 6, 1892
Alley.....	Dickson to Blackhawk..	Ashland to Milwaukee avenues...	Sept. 1, 1892
Alley.....	Will to Augusta .....	Milwaukee avenue.....	July 14, 1892
Alley.....	May to Carpenter.....	Front to Chicago ave..	Oct. 10, 1892
Alley.....	Milwaukee Ave. to Lincoln.....	Elk Grove to Girard ..	Nov. 11, 1892
Armitage avenue .....	Kedzie Ave .....	Columbia .....	Aug. 9, 1892
Armitage avenue .....	California.....	Kedzie .....	Dec. 12, 1891

## DIVISION, 1892—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
June 6, 1892	Garden City P & P. Co.	W. C. Cedar	1,081.68	599.00
June 13, 1892	Talbot Paving Co.	W. C. Cedar	564.26	380.00
June 18, 1892	Talbot Paving Co.	W. C. Cedar	966.22	810.00
June 13, 1892	Talbot Paving Co.	W. C. Cedar	985.94	810.00
July 15, 1892	Farrell, Luck & Co.	W. C. Cedar	1,139.56	655.00
Aug. 1, 1892	J. B. Smith & Co.	W. C. Cedar	1,282.36	603.00
Aug. 8, 1892	R. F. Conway	W. C. Cedar	583.65	877.00
Aug. 6, 1892	R. F. Conway	W. C. Cedar	562.63	877.00
Aug. 2, 1892	R. F. Conway	W. C. Cedar	571.53	379.00
July 13, 1892	A. J. McBean & Co.	W. C. Cedar	2,339.32	1,416.00
Aug. 4, 1892	R. F. Conway	W. C. Cedar	583.64	378.00
Aug. 4, 1892	R. F. Conway	W. C. Cedar	1,088.91	578.00
Aug. 5, 1892	R. F. Conway	W. C. Cedar	981.79	496.00
Aug. 19, 1892	R. F. Conway	W. C. Cedar	1,362.46	751.00
Sept. 17, 1892	J. B. Barnett	W. C. Cedar	1,275.00	603.00
Sept. 16, 1892	J. B. Barnett	W. C. Cedar	551.70	381.00
Oct. 6, 1892	J. V. McAdam	W. C. Cedar	1,167.86	741.00
Oct. 8, 1892	J. V. McAdam	W. C. Cedar	750.21	725.00
Sept. 28, 1892	R. F. Conway	W. C. Cedar	2,320.68	1,398.00
Oct. 15, 1892	O. Vider	W. C. Cedar	1,845.31	751.00
Sept. 29, 1892	R. F. Conway	W. C. C. Cedar	1,309.74	917.00
Oct. 24, 1892	J. V. McAdam	W. C. C. Cedar	1,424.12	778.00
Oct. 28, 1892	A. J. McBean & Co.	W. C. C. Cedar	1,254.43	749.00
Oct. 24, 1892	A. J. McBean & Co.	W. C. C. Cedar	2,492.04	1,371.00
Oct. 24, 1892	J. V. McAdam	W. C. C. Cedar	1,799.27	1,034.00
Oct. 15, 1892	A. J. McBean & Co.	W. C. C. Cedar	1,189.94	635.00
Oct. 15, 1892	A. J. McBean & Co.	W. C. C. Cedar	549.15	251.00
Nov. 29, 1892	J. V. McAdam	W. C. C. Cedar	512.80	406.00
Dec. 7, 1892	J. V. McAdam	W. C. C. Cedar	891.86	516.00
Dec. 14, 1892	O. Vider	W. C. C. Cedar	639.81	540.00
Dec. 16, 1892	J. V. McAdam	W. C. C. Cedar	972.86	604.00
Sept. 9, 1892	G. B. McBean	W. C. C. Cedar	1,269.19	741.73
Sept. 9, 1892	J. B. Smith & Co.	W. C. C. Cedar	953.04	595.65
Sept. 9, 1892	J. B. Smith & Co.	W. C. C. Cedar	971.09	595.55
Sept. 2, 1892	Garden C. P. & P. Co.	W. C. C. Cedar	1,114.59	698.70
Oct. 18, 1892	J. V. McAdam	W. C. C. Cedar	187.86	117.07
Aug. 19, 1892	J. B. Smith & Co.	W. C. C. Cedar	1,955.85	1,007.02
Oct. 28, 1892	R. F. Conway	W. C. C. Cedar	1,484.83	681.81
Oct. 7, 1892	J. B. Smith & Co.	W. C. C. Cedar	1,168.96	730.60
Oct. 26, 1892	J. V. McAdam	W. C. C. Cedar	581.47	358.10
Oct. 10, 1892	J. B. Smith & Co.	W. C. C. Cedar	2,500.45	1,358.94
Sept. 29, 1892	R. F. Conway	W. C. C. Cedar	1,007.82	604.69
Dec. 12, 1892	J. V. McAdam	W. C. C. Cedar	603.13	324.75
Dec. 8, 1892	J. V. McAdam	W. C. C. Cedar	1,128.53	685.08
Dec. 1, 1892	R. F. Conway	C. F. & Cedar	89,402.21	8,443.38
Aug. 16, 1892	P. Farrell	C. F. Cedar	10,408.48	2,473.06

## STREETS IMPROVED, WEST

NAME OF STREET.	FROM	TO	COMMENCED.
Asylum place	Leavitt	Elston avenue	Oct. 17, 1891
Ann	Madison	Washington	June 15, 1892
Belknap	Morgan	West Terminus	June 6, 1892
Courtland	Leavitt	Robey	March 7, 1892
Coblentz	Leavitt	Robey	May 1, 1892
Courtland	Humboldt boulevard	Kedzie avenue	April 20, 1892
Churchill	Robey	Leavitt	Dec. 2, 1891
Commercial	North avenue	Armitage Ave	Nov. 8, 1891
California avenue	Milwaukee avenue	Humboldt boulevard	Aug. 30, 1892
Cicero court	Congress	Van Buren	June 4, 1892
Carroll avenue	Kedzie	950 feet west	July 14, 1892
Campbell avenue	Twelfth	Viaduct	July 11, 1892
Central Park avenue	W. Twenty-second	West Twenty-sixth	Dec. 1, 1891
Centre avenue	Kinzie	Austin avenue	May 2, 1892
Cornelia	Ashland avenue	Wood	April 22, 1891
*Congress	W. from Clinton 192 ft.		
*Columbia	Milwaukee avenue	Leavitt	
Desplaines	Adams	Monroe	May 27, 1892
Desplaines	Taylor	Polk	Oct. 27, 1892
Dudley	Harvey	Asylum Place	Oct. 10, 1891
Dania avenue	Bloomingdale road	North avenue	Mar. 23, 1892
Edgar	Clybourn Place	North avenue	Sept. 17, 1891
Elizabeth	Madison	Randolph	Oct. 28, 1891
Eighteenth place	Johnson	Brown	May 16, 1892
Ellen	Lincoln	Milwaukee avenue	Oct. 31, 1891
Fairfield avenue	Hirst	North avenue	Mar. 29, 1892
Ferdinand	Ashland avenue	Paulina	July 15, 1892
Fisk	West Sixteenth	West Eighteenth	July 8, 1892
Fulton	Hamlin	Columbia	April 14, 1892
Fillmore	California avenue	Kedzie	
*Fulton	Clinton	Jefferson	
Fulton	Homan	Central Park avenue	June 30, 1892
Frankfort	Robey	Hoyne	Oct. 15, 1891
Fairfield avenue	North avenue	Courtland	June 27, 1892
Gross	North avenue	Courtland	June 1, 1892
Girard	Armitage avenue	Harvey	April 22, 1892
Heine	Armitage avenue	Bloomingdale road	
Humboldt	Armitage avenue	North avenue	Nov. 10, 1891
Hoyne avenue	Wabansia	Armitage	Aug. 22, 1892
Hoyne avenue	Chicago avenue	Division	July 15, 1892
Hoyne avenue	Thirteenth	Fourteenth	Aug. 11, 1892
Hastings	Wood	Leavitt	Aug. 11, 1892
Harvard	Campbell	California	Nov. 1, 1892
Halsted	Van Buren	Lake	June 6, 1892
Homan avenue	Colorado	Madison	April 9, 1892
Jefferson	Van Buren	Madison	Oct. 27, 1892

\*Private Contract.

## DIVISION, 1892—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
Aug. 3, 1892	Sackley & Peterson.....	C. F. Cedar.....	11,284.00	2,672.53
June 23, 1892	R. F. Conway.....	C. G. Cedar.....	1,827.00	416.00
July 7, 1892	Talbot Paving Co.....	C. G. Cedar.....	802.00	250.00
June 13, 1892	J. B. Smith & Co.....	C. F. Cedar.....	5,848.81	1,335.20
July 5, 1892	P. Farrell & Co.....	C. F. Cedar.....	4,961.09	1,240.27
Aug. 3, 1892	R. F. Conway.....	C. F. Cedar.....	4,296.19	1,288.86
June 1, 1892	J. B. Smith & Co.....	C. F. Cedar.....	5,376.10	1,344.03
Sept. 6, 1892	Sackley & Peterson.....	C. F. Cedar.....	11,076.49	2,623.28
Nov. 15, 1892	R. F. Conway.....	C. F. Cedar.....	7,730.33	1,830.87
June 11, 1892	P. Farrell.....	C. G. Cedar.....	869.00	277.00
Sept. 1, 1892	J. V. McAdam.....	C. G. Cedar.....	4,041.00	950.00
July 20, 1892	R. F. Conway.....	C. F. Cedar.....	1,831.44	481.96
May 21, 1892	J. V. McAdam.....	C. F. Cedar.....	10,376.44	2,594.11
May 11, 1892	G. B. McBean.....	C. F. Cedar.....	1,386.65	331.00
June 5, 1892	Garden City P. & P.....	C. S. Cedar.....	3,750.98	1,125.00
	Talbot Paving Co.....	C. F. & Cedar.....	534.00	192.00
	J. B. Smith & Co., Sackley & Peterson..	Cedar.....	1,685.55	606.80
May 28, 1892	P. Farrell.....	C. G. Cedar.....	1,490.00	400.00
Dec. 15, 1892	A. J. McBean & Co.....	C. G. Cedar.....	2,633.00	800.00
July 16, 1892	Talbot Paving Co.....	C. F. Cedar.....	2,613.75	619.06
Sept. 10, 1892	W. F. Hair.....	C. F. Cedar.....	5,406.91	1,280.58
Sept. 20, 1892	J. V. McAdam.....	C. F. Cedar.....	8,042.74	1,904.86
July 27, 1892	Western P. & S. Co.....	C. G. & Asphalt.....	3,499.00	830.00
June 6, 1892	P. Farrell.....	C. F. & Cedar.....	1,327.21	435.94
Aug. 20, 1892	G. B. McBean.....	S. C. & Cedar.....	3,790.20	1,182.00
Aug. 2, 1892	P. Farrell.....	S. C. & Cedar.....	4,303.70	1,290.00
Aug. 14, 1892	J. B. Smith & Co.....	S. C. & Cedar.....	1,138.85	600.00
July 16, 1892	P. Farrell.....	C. F. & Cedar.....	2,416.00	604.00
Sept. 2, 1892	R. F. Conway.....	C. F. & Cedar.....	1,555.00	360.00
Unfinished.	R. F. Conway.....	C. F. & Cedar.....	2,300.00	600.00
	James Conlan.....	Granite C. G. P.....	1,600.00	320.00
Oct. 30, 1892	Barber Asphalt Paving Co.....	C. G. & P. Asphalt...	5,688.00	1,290.00
May 6, 1892	J. B. Smith & Co.....	C. F. & Cedar.....	2,545.47	632.05
Sept. 8, 1892	J. B. Smith & Co.....	C. F. & Cedar.....	6,480.30	1,944.09
Sept. 6, 1892	R. F. Conway.....	C. F. & Cedar.....	8,081.56	1,914.20
Sept. 2, 1892	P. Farrell.....	C. F. & Cedar.....	2,605.08	616.99
Nov. 16, 1892	R. F. Conway.....	C. F. & Cedar.....	4,172.86	1,298.52
Sept. 10, 1892	W. F. Hair.....	C. F. & Cedar.....	10,650.64	2,522.54
Dec. 5, 1892	A. J. McBean & Co.....	C. F. & Cedar.....	7,956.31	1,884.90
Sept. 19, 1892	Talbot Paving Co.....	S. C. & Cedar.....	9,135.10	2,741.00
Sept. 1, 1892	P. Farrell.....	C. F. & Cedar.....	2,735.51	645.51
Nov. 4, 1892	R. F. Conway.....	C. F. & Cedar.....	10,950.33	2,868.58
Nov. 25, 1892	J. V. McAdam.....	C. G. & Cedar.....	3,846.00	1,900.00
Oct. 6, 1892	M. J. LaBounty.....	C. G. & Granite.....	8,726.00	1,086.00
Nov. 12, 1892	Barber Asphalt Paving Co.....	C. G. & Asphalt.....	4,814.00	1,087.00
Nov. 17, 1892	P. Farrell.....	C. G. & Cedar.....	9,133.00	1,650.00

## STREETS IMPROVED, WEST

NAME OF STREET.	FROM	TO	COMMENCED.
Johnson .....	West Sixteenth.....	West Eighteenth.....	April 7, 1892
Jefferson.....	Twelfth.....	Fifteenth.....	May 27, 1892
Jane.....	Hoyne avenue.....	Leavitt.....	May 15, 1892
Jane.....	Ashland avenue.....	Newton.....	May 8, 1892
Johnson.....	California avenue.....	Humboldt boulevard...	Nov. 18, 1891
Kedzie avenue.....	Twelfth.....	Van Buren.....	June 14, 1892
Lexington avenue.....	California avenue.....	Francisco.....	Sept. 1, 1892
Leavitt.....	Thirteenth.....	Fourteenth.....	Sept. 1, 1892
Lincoln.....	Fifteenth.....	Eighteenth.....	Oct. 1, 1892
Leavitt.....	Eighteenth.....	Blue Island avenue.....	Sept. 17, 1892
Lincoln.....	Twelfth.....	Fifteenth.....	Sept. 7, 1892
Lincoln.....	Nineteenth.....	Blue Island avenue.....	Sept. 1, 1892
Leavitt.....	Fullerton.....	Asylum Place.....	Oct. 25, 1891
Leavitt.....	Armitage avenue.....	Asylum Place.....	Mar. 1, 1892
Mozart.....	Armitage avenue.....	North avenue.....	April 28, 1892
Morgan.....	Sixteenth.....	Eighteenth.....	June 7, 1892
Myrtle.....	Ashland avenue.....	Taylor.....	April 28, 1892
May.....	Madison.....	Washington.....	July 17, 1892
Myrtle.....	Taylor.....	Birch.....	Oct. 5, 1892
North avenue.....	Tinkham.....	Grand.....	Aug. 5, 1892
Oakley avenue.....	Indiana.....	Chicago.....	April 14, 1892
Owasco.....	Washtenaw.....	California.....	June 1, 1892
Page.....	Austin avenue.....	Kinzie.....	July 15, 1892
Robey.....	Twelfth.....	Thirteenth.....	May 7, 1892
Rubel.....	Sixteenth.....	Eighteenth.....	July 7, 1892
Richmond.....	Chicago avenue.....	Division.....	Oct. 15, 1891
Rockwell.....	Division.....	North avenue.....	Feb. 15, 1892
Randolph.....	Albany avenue.....	W. line Lot 17, Belmont's add.	Oct. 6, 1892
Sheridan.....	Twelfth.....	Fillmore.....	May 2, 1892
Sebor.....	Clinton.....	Jefferson.....	Sept. 15, 1892
Stevens.....	Van Buren.....	Jackson.....	Sept. 1, 1892
Sacramento avenue.....	Twelfth.....	Van Buren.....	July 1, 1892
St. Louis avenue.....	Kinzie.....	Chicago avenue.....	July 10, 1892
String.....	Sixteenth.....	Canalport avenue.....	Dec. 1, 1891
Sawyer avenue.....	Douglas Park bvd.....	West Twenty-second.....	Aug. 1, 1891
Sixteenth.....	Canal.....	Halsted.....	Dec. 27, 1891
Seventeenth.....	Fisk.....	Centre avenue.....	May 28, 1892
Twentieth.....	Jefferson.....	Blair.....	May 25, 1892
Twenty-second.....	Hamlin avenue.....	Ogden avenue.....	Sept. 8, 1892
Union.....	Lake.....	Kinzie.....	April 7, 1892
Upton.....	Milwaukee avenue.....	Western avenue.....	July 10, 1892
Wright (Henry).....	Canal.....	Stewart.....	June 22, 1892
Washtenaw avenue.....	Twelfth.....	Ogden avenue.....	Aug. 11, 1892
Washtenaw avenue.....	Division.....	North avenue.....	May 23, 1892
Western avenue.....	Indiana.....	Chicago avenue.....	May 9, 1892
Washtenaw avenue.....	Lake.....	Kinzie.....	April 21, 1892

## STREET DEPARTMENT.

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## DIVISION, 1892—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
May 7, 1892	J. V. McAdam.....	C. F. & Cedar .....	1,890.82	607.76
June 7, 1892	J. V. McAdam.....	C. F. & Cedar.....	6,072.87	2,239.18
June 15, 1892	Garden City P. & P.....	S. C. & Cedar.....	3,062.89	725.00
June 27, 1892	Farrell, Luck & Co.....	Cedar P.....	4,907.11	1,411.00
Aug. 15, 1892	O. Vider & Co.....	C. F. & Cedar.....	9,359.38	2,552.56
Sept. 18, 1892	Sackley & Peterson.....	C. G. & Cedar.....	9,027.00	3,250.00
Sept. 9, 1892	R. F. Conway.....	C. G. & Cedar.....	2,112.00	594.08
Sept. 26, 1892	J. V. McAdam.....	C. F. & Cedar.....	2,643.95	626.90
Oct. 31, 1892	Spooner & O'Connell.....	S. C. & Macadam....	2,921.67	691.96
Dec. 7, 1892	P. Farrell.....	S. C. F. & Cedar.....	9,465.56	3,872.27
Nov. 16, 1892	J. V. McAdam.....	C. F. & Cedar.....	7,976.82	1,889.25
Dec. 3, 1892	J. V. McAdam.....	C. F. & Cedar.....	9,670.71	2,052.33
Aug. 2, 1892	Sackley & Peterson.....	W. C. F. & Cedar....	5,964.10	1,412.55
Sept. 15, 1892	J. V. McAdam.....	C. F. & Cedar.....	5,890.70	1,394.90
July 12, 1892	A. J. McBean & Co.....	C. F. & Cedar.....	10,657.40	2,524.07
July 25, 1892	J. V. McAdam.....	C. F. & Cedar.....	2,618.22	620.16
June 7, 1892	P. Farrell.....	C. F. & Cedar.....	1,452.00	363.00
July 24, 1892	R. F. Conway.....	C. F. & Cedar.....	1,828.00	416.00
Nov. 17, 1892	A. J. McBean & Co.....	C. C. & Cedar.....	1,455.00	364.00
Sept. 24, 1892	R. F. Conway.....	C. F. & Cedar.....	30,097.89	5,181.86
Aug. 4, 1892	J. V. McAdam.....	C. S. & Cedar.....	7,331.03	1,736.00
July 2, 1892	R. F. Conway.....	C. G. A. & Cedar....	2,077.00	622.00
Aug. 11, 1892	Garden City P. & P.....	C. P. Cedar.....	1,845.03	336.00
June 7, 1892	P. Farrell.....	C. F. & Cedar.....	2,541.98	602.05
July 11, 1892	P. Farrell.....	C. F. & Cedar.....	2,697.44	809.23
July 12, 1892	Sackley & Peterson.....	S. C. & Cedar.....	11,404.72	2,701.00
June 27, 1892	Sackley & Peterson.....	S. C. & Cedar.....	10,926.78	2,588.00
Nov. 19, 1892	A. J. McBean & Co.....	C. G. & Cedar.....	1,243.00	400.00
May 27, 1892	R. F. Conway.....	C. G. & Cedar.....	1,999.00	580.00
Sept. 19, 1892	Sackley & Peterson.....	C. G. & Cedar.....	1,580.00	360.00
Sept. 29, 1892	P. Farrell.....	C. G. & Cedar.....	2,029.00	481.00
Sept. 12, 1892	Sackley & Peterson.....	C. G. & Cedar.....	15,138.00	3,250.00
July 30, 1892	Farrell, Luck & Co.....	C. S. & Cedar.....	8,391.10	2,517.00
June 6, 1892	P. Farrell.....	C. F. & Cedar.....	4,048.13	1,206.40
June 10, 1892	A. J. McBean & Co.....	C. F. & Cedar.....	7,460.36	2,238.11
May 26, 1892	John D. Ruddy.....	C. F. & Cedar.....	8,285.42	2,119.16
June 1, 1892	P. Farrell.....	C. F. & Cedar.....	3,397.83	805.00
June 10, 1892	Garden City P. & P.....	C. F. & Cedar.....	1,159.55	350.86
Oct. 13, 1892	J. V. McAdam.....	C. F. & Cedar.....	5,481.31	1,027.75
July 11, 1892	Gaffney & Long.....	C. G. & Granite.....	4,590.00	860.00
Aug. 24, 1892	R. F. Conway.....	C. F. & Cedar.....	2,883.69	585.35
July 14, 1892	P. Farrell.....	C. F. & Cedar.....	1,583.35	375.00
Oct. 10, 1892	Garden City P. & P.....	C. F. & Cedar.....	6,343.24	1,502.35
July 20, 1892	Sackley & Peterson.....	C. & Cedar.....	9,125.39	2,737.00
June 9, 1892	A. J. McBean & Co.....	C. & Cedar.....	4,944.47	2,023.00
July 14, 1892	Garden City P. & P.....	C. G. & Cedar.....	3,869.00	1,200.00



## STREETS IMPROVED, WEST

NAME OF STREET.	FROM	TO	COMMENCED.
West Congress.....	Rockwell .....	Sacramento .....	June 1, 1892
*West Congress .....	Clinton .....	192 feet west .....	Dec. 1, 1892
West Congress.....	Loomis .....	Ashland avenue .....	Nov. 1, 1892
West Harrison ....	Canal .....	Halsted.....	Nov. 1, 1892
West Jackson.....	Canal .....	Halsted.....	April 1, 1892
West Monroe.....	Canal .....	Halsted.....	July 17, 1892
West Polk.....	Canal .....	Halsted.....	Nov. 14, 1892
West Polk.....	Rockwell .....	California.....	.....
Wood.....	Armitage ..	Asylum Place.....	Mar. 1, 1892
*Washtenaw avenue.....	Twelfth .....	Howard .....	.....

\*Private Contract.

## STREET DEPARTMENT.

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## DIVISION, 1892—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
July 11, 1892	R. F. Conway.....	C. G. & Cedar.....	10,800.00	2,489.00
Dec. 10, 1892	Talbot Paving Co.....	C. G. & Cedar.....	534.00	192.00
Jan. 4, 1893	J. H. Farwell.....	C. G. & Asphalt. . .	5,370.00	1,231.00
Dec. 15, 1892	A. J. McBean.....	C. G. & Cedar.....	5,174.00	2,029.00
April 28, 1892	Garden City P. & P.....	C. G. Macadam.....	12,155.00	2,147.00
Aug. 16, 1892	J. B. Smith & Co.....	C. G. & Cedar.....	8,772.00	2,000.00
Nov. 23, 1892	Garden City P. & P.....	C. G. & Cedar.....	6,391.00	2,009.00
Unfinished.	R. F. Conway..	C. G. & Cedar.....	4,170.00	1,224.00
July 2, 1892	J. V. McAdam.....	C. G. & Cedar.....	5,068.53	1,200.44
.....	R. F. Conway.....	Cedar.....	3,410.00	.....
TOTALS.....			678,785.18	198,873.33

Lineal feet paving... ..197,049.83 feet, or 37.82 miles.

On unpaved streets, lineal feet curbing, filling, etc. 1,824.00 feet, or .34 miles.

GRAND TOTALS.....198,873.83 feet, or 37.66 miles.

## STREETS IMPROVED WITH MACADAM,

NAME OF STREET.	FROM	TO	COMMENCED.
Aberdeen.....	N. Clark.....	Evanston avenue.....	July 20, 1892
Ainsley.....	Evanston avenue.....	Sheffield avenue.....	June 21, 1892
Balmoral avenue.....	Magnolia.....	C. M. & St. P. Ry.....	June 21, 1892
Berwyn avenue.....	Magnolia.....	C. M. & St. P. Ry.....	June 21, 1892
Evanston avenue.....	Brenmore.....	Thorndale avenue.....	May 5, 1892
Grand avenue .....	N. Clark.....	Evanston avenue.....	Unfinished.
Hazel.....	Sulzer.....	Buena avenue.....	Sept. 14, 1892
Lawrence avenue.....	Sheffield avenue.....	Ashland avenue.....	July 25, 1892
Linden Place.....	Diversey.....	Surf.....	.....
Magnolia.....	N. Fifty-ninth.....	Balmoral.....	.....
Reta.....	Addison.....	Cornelia.....	Mar. 1, 1892
Rokeby.....	Addison.....	Grace.....	Aug. 2, 1892
Waubun avenue.....	Wellington.....	Oakdale avenue.....	July 24, 1892
Waubun avenue.....	Oakdale avenue.....	Surf.....	.....
Dearborn avenue.....	Ohio.....	Chicago.....	July 8, 1892
Stone.....	Division.....	Scott.....	.....
Michigan.....	Wells.....	Franklin.....	.....

## GRANITE AND ASPHALT, NORTH DIVISION.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINFAL FEET.
Oct. 10, 1892	C. M. Netterstrom.....	C. G. & Macadam...	7,648.53	2,294.56
July 28, 1892	C. B. Parsons.....	C. G. & Macadam...	4,089.33	1,226.80
July 28, 1892	Dolese & Shepard.....	C. G. & Macadam...	2,356.67	707.00
July 28, 1892	Dolese & Shepard.....	C. G. & Macadam...	2,240.00	672.00
Nov. 15, 1892	C. B. Parsons.....	C. G. & Macadam...	16,408.27	2,461.24
.....	Sackley & Peterson.....	C. F. Macadam.....	8,444.44	1,900.00
Nov. 9, 1892	Netterstrom & Bairstow.....	C. F. Macadam.....	4,127.77	1,286.33
Nov. 22, 1892	Netterstrom & Bairstow.....	C. G. Macadam.....	16,677.56	3,947.58
.....	Marshall & Making.....	C. G. Macadam.....	1,540.00	462.00
.....	Dolese & Shepard.....	C. G. Macadam.....	4,213.33	1,264.00
June 15, 1892	Sackley & Peterson.....	C. F. Macadam.....	2,066.00	619.80
Nov. 3, 1892	C. B. Parsons.....	C. F. Macadam.....	4,911.30	1,485.10
Nov. 1, 1892	C. B. Parsons.....	C. G. Macadam.....	1,025.97	307.79
.....	C. B. Parsons.....	C. G. Macadam.....	1,313.33	394.00
Aug. 9, 1892	Western P. & S. Co.....	S. C. G. Asphalt.....	6,684.48	1,671.12
.....	Western P. & S. Co.....	S. C. G. Asphalt.....	1,127.33	267.00
.....	James Conlan.....	Granite Block.....	1,474.35	336.50
TOTALS.....			86,348.66	21,204.82

## STREETS IMPROVED WITH MACADAM,

NAME OF STREET.	FROM	TO	COMMENCED.
Stewart, Shields, Halsted (System).	120th.	119th to 123rd.	
Armour avenue.	Fifty-third.	Fifty-fifth.	
Baltimore avenue.	Eighty-third.	Commercial.	Unfinished.
Bond avenue.	Seventy-ninth.	Eightieth.	Aug. 15, 1892
Boulevard place.	Vincennes avenue.	Grand boulevard.	Aug. 18, 1892
Champlain avenue.	Forty-seventh.	Forty-ninth.	June 28, 1892
Champlain avenue.	Forty-ninth.	Fiftieth.	June 28, 1892
Drexel avenue.	Sixtieth.	Sixty-third.	Oct. 24, 1892
Drexel avenue.	Fifty-first.	Fifty-fifth.	July 15, 1892
Drexel avenue.	Fifty-fifth.	Fifty-ninth.	Aug. 20, 1891
Dickey.	Seventy-first.	Seventy-second.	June 8, 1892
Englewood avenue.	Wallace.	Halsted.	Sept. 1, 1892
Eighty-seventh.	Buffalo avenue.	Mackinaw avenue.	
Eighty-eighth.	Superior.	Mackinaw avenue.	
Eighty-ninth.	The Strand.	Mackinaw avenue.	
Eighty-ninth.	South Park avenue.	St. Lawrence avenue.	Sept. 1, 1892
Eighty-ninth place.	South Park avenue.	Dauphin Park avenue.	Sept. 1, 1892
Forty-first.	Grand boulevard.	State.	Aug. 19, 1892
Forty-fourth.	Drexel boulevard.	Cottage Grove avenue.	July 25, 1892
Forty-fifth.	Drexel boulevard.	Grand boulevard.	Sept. 10, 1892
Forty-sixth.	Drexel boulevard.	Grand boulevard.	Oct. 6, 1891
Fifty-fourth.	Drexel boulevard.	Cottage Grove avenue.	May 7, 1892
Fifty-seventh.	Woodlawn avenue.	Cottage Grove avenue.	April 18, 1892
Forrest Hill sub.	Eighty-third.	Western avenue.	April 6, 1892
Green, Peoria, Sangamon.	Sixty-fourth.	Sixty-fifth.	
Greenwood.	Sixtieth.	Sixty-third.	Feb. 24, 1892
Honore.	Sixty-ninth.	Seventy-first.	May 22, 1892
Ingleside avenue.	Fifty-fifth.	Fifty-ninth.	Sept. 16, 1892
Jackson avenue.	Fifty-fourth.	Fifty-ninth.	May 2, 1892
Kenwood place.	Vincennes avenue.	Grand boulevard.	Sept. 21, 1892
Langley avenue.	Eighty-ninth.	Ninety-first.	Sept. 1, 1892
Langley avenue.	Fortieth.	Forty-second.	Oct. 29, 1891
Lexington.	Fifty-sixth.	Fifty-ninth.	July 6, 1892
Lexington.	Sixty-third.	Sixty-fifth.	July 25, 1892
Madison avenue.	Sixtieth.	Sixty-sixth.	April 16, 1892
Mackinaw avenue.	Eighty-seventh.	Eighty-ninth.	
Michigan avenue.	Fifty-fifth.	Sixty-third.	Sept. 10, 1891
Ninetieth.	South Park avenue.	I. C. R. R.	Sept. 1, 1892
Ninetieth.	South Park avenue.	Dauphin Park avenue.	Sept. 1, 1892
Ninety-first.	Cottage Grove avenue.	Dauphin Park avenue.	Sept. 1, 1892
Prairie avenue.	Thirty-ninth.	Fifty-first.	Aug. 2, 1892
South Park avenue.	Fifty-sixth.	Sixtieth.	Sept. 1, 1892
St. Lawrence.	Forty-fifth.	Fifty-first.	Oct. 30, 1891
Seventy-second.	Yates.	Stony Island avenue.	Sept. 20, 1892
Sixty-fourth.	Wallace.	Winter.	June 8, 1892
Stewart.	So. Normal Parkway.	Sixty-ninth.	Sept. 22, 1892

## GRANITE AND ASPHALT, SOUTH DIVISION.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
.....	Eggleston, Mallette & Brownell	W. C. Macadam.....	40,950.00	12,285.00
.....	Dolese & Shepard.....	Macadam.....		1,200.00
Unfinished.	George R. Rockefeller.....	Macadam.....	2,800.00	1,400.00
Oct. 15, 1892	Kimbell Cobb Stone Co.....	W. C. Macadam.....	2,416.06	632.00
Oct. 31, 1892	Dolese & Shepard.....	S. C. Macadam.....	2,544.70	643.20
Sept. 15, 1892	J. J. Palmer & Co.....	S. C. & Macadam.....	5,539.50	1,277.00
Sept. 15, 1892	J. J. Palmer & Co.....	S. C. Macadam.....	2,884.60	663.50
Dec. 10, 1892	Dolese & Shepard.....	W. C. Macadam.....	7,027.00	1,807.00
Oct. 25, 1892	Eggleston M. & B.....	S. C. Macadam.....	12,522.67	2,269.00
April 20, 1892	Kimbell Cobb Stone Co.....	W. C. Macadam.....	935.00	275.00
July 16, 1892	Eggleston M. & B.....	Macadam.....	2,400.00	700.00
Nov. 26, 1892	Eggleston M. & B.....	S. C. Macadam.....	4,300.00	1,320.00
.....	Illinois Steel Co.....	W. C. Macadam.....	780.00	390.00
.....	Illinois Steel Co.....	W. C. Macadam.....	1,426.00	713.00
.....	Illinois Steel Co.....	W. C. Macadam.....	2,778.00	680.00
.....	J. J. Palmer.....	G. Macadam.....	1,533.00	1,322.00
.....	J. J. Palmer.....	G. Macadam.....	5,328.00	2,664.00
.....	Dolese & Shepard.....	S. C. Macadam.....	4,533.33	1,200.00
Oct. 30, 1892	Kimbell Cobb Stone Co.....	S. C. Macadam.....	2,007.00	513.30
Unfinished.	Dolese & Shepard.....	S. C. Macadam.....	4,911.11	1,300.00
May 16, 1892	Jas. Conlan.....	S. C. Macadam.....	3,287.50	870.00
July 16, 1892	Jas. Conlan.....	S. C. Macadam.....	2,342.60	560.00
Aug. 3, 1892	Kimbell Cobb Stone Co.....	S. C. Macadam.....	10,555.55	2,436.00
Unfinished.	Eggleston M. & B.....	Macadam.....	52,800.00	15,840.00
.....	Eggleston M. & B.....	S. C. Macadam.....	6,000.00	1,800.00
July 22, 1892	Tom Byrne.....	W. C. Macadam.....	6,637.93	1,890.00
Nov. 6, 1892	Kimbell Cobb Stone Co.....	Macadam.....	4,300.00	1,320.00
Unfinished.	J. J. Palmer.....	C. S. Macadam.....	6,333.33	1,500.00
Aug. 13, 1892	Kimbell Cobb Stone Co.....	C. S. Macadam.....	12,500.00	3,201.40
Dec. 13, 1892	Sackley & Peterson.....	C. & Macadam.....	2,521.67	639.10
Unfinished.	J. J. Palmer.....	G. Macadam.....	2,530.00	1,265.00
April 16, 1892	Dolese & Shepard.....	S. C. Macadam.....	3,259.60	862.00
Nov. 25, 1892	Kimbell Cobb Stone Co.....	S. C. Macadam.....	7,078.80	1,873.60
Dec. 10, 1892	Dolese & Shepard.....	W. C. Macadam.....	5,292.00	1,360.30
Sept. 1, 1892	Kimbell Cobb Stone Co.....	S. C. Macadam.....	16,156.00	3,929.00
.....	Illinois Steel Co.....	W. C. Macadam.....	2,720.00	1,360.00
July 1, 1892	Tom. Byrne.....	Macadam.....	30,000.00	5,340.00
Dec. 31, 1892	J. J. Palmer.....	G. Macadam.....	6,130.00	3,065.00
Dec. 31, 1892	J. J. Palmer.....	G. Macadam.....	5,652.00	2,826.00
Dec. 31, 1892	J. J. Palmer.....	G. Macadam.....	842.00	421.00
Unfinished.	Dolese & Shepard.....	Macadam.....	22,232.00	4,000.00
Unfinished.	Eggleston M. & B.....	S. C. & Macadam.....	2,166.67	1,500.00
May 5, 1892	Sackley & Peterson.....	S. C. Macadam.....	16,723.40	3,826.50
Unfinished.	I. Robinson.....	W. C. Macadam.....	5,690.00	1,600.00
July 26, 1892	C. B. Parson.....	Macadam.....	2,400.00	710.00
Oct. 22, 1892	Eggleston M. & B.....	Macadam.....	1,200.00	300.00

## STREETS IMPROVED WITH MACADAM, GRANITE

NAME OF STREET.	FROM	TO	COMMENCED.
Stewart.....	Seventy-seventh.....	Seventy-ninth.....	April 1, 1892
Sixtieth.....	Halsted.....	Winter.....	Sept. 12, 1892
Sixty-first.....	Halsted.....	Winter.....	Aug. 18, 1892
Sixty-fifth.....	Halsted.....	Winter.....	July 18, 1892
Seventy-third.....	Stewart.....	State.....	April 8, 1892
Seventy-fourth.....	Stewart.....	Vincennes.....	Oct. 10, 1892
Sixty-sixth.....	Stewart.....	Sherman.....	April 28, 1892
System Thirtieth ward.....			Sept. 21, 1892
Superior avenue.....	Eighty-seventh.....	Ninety-second.....	Oct. 10, 1892
St. Lawrence.....	Eight-ninth.....	Ninety-first.....	Sept. 1, 1892
Thirty-seventh court.....	Wabash.....	Michigan.....	Oct. 17, 1892
Vincennes avenue.....	Eighty-ninth.....	Ninety-first.....	Sept. 1, 1892
Vernon avenue.....	Forty-third.....	294 feet south.....	.....
Washington avenue.....	Ninety-first.....	Ninety-fifth.....	June 1, 1892
Wright.....	Seventy-first.....	Seventy third.....	Aug. 20, 1891
Alley.....	33rd to Groveland Park.....	Cottage Grove avenue I. C. R. R.....	.....
Calumet avenue.....	Forty-third.....	Fifty-first.....	Aug. 1, 1892
Ellis avenue.....	Thirty-ninth.....	Forty-first.....	Sept. 9, 1892
Eighteenth.....	Prairie.....	Calumet.....	Dec. 5, 1892
Eldridge court.....	State.....	Michigan.....	Nov. 7, 1892
Prairie avenue.....	Twenty-fifth.....	Twenty-sixth.....	Oct. 30, 1892
Quincy.....	Clark.....	115 feet west.....	May 7, 1892
Thirteenth.....	Vincennes.....	Rhodes.....	June 7, 1892
Alley.....	Monroe Theatre court.....	West of State.....	July 28, 1892
Burton place.....	Wabash avenue east.....	.....	.....
Pacific avenue.....	Taylor.....	200 feet north.....	.....

## AND ASPHALT, SOUTH DIVISION—CONTINUED.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
Sept. 21, 1892	Rockefeller & Palmer	Macadam	4,700.00	1,320.00
Oct. 8, 1892	Eggleston M. & B.	Macadam	2,500.00	660.00
Sept. 10, 1892	Eggleston M. & B.	Macadam	2,500.00	660.00
Sept. 21, 1892	Eggleston M. & B.	Macadam	4,800.00	1,320.00
Sept. 24, 1892	Rockefeller & Palmer	Macadam	10,000.00	2,650.00
Unfinished.	Eggleston M. & B.	Macadam	5,000.00	1,320.00
June 2, 1892	Sackley & Peterson	Macadam	4,600.00	1,420.00
Unfinished.	J. J. Palmer	Macadam	25,800.00	7,600.00
Unfinished.	Dolese & Shepard	W. C. Macadam	15,614.00	3,846.00
Unfinished.	J. J. Palmer	G. Macadam	2,530.00	1,265.00
Nov. 22, 1892	Dolese & Shepard	S. C. Macadam	1,628.89	385.79
Unfinished.	J. J. Palmer	G. Macadam	2,530.00	1,265.00
	Dolese & Shepard	Macadam	980.00	294.00
Oct. 16, 1892	Kimbell Cobb Stone Co.	Macadam	4,442.00	2,221.00
July 22, 1892	Eggleston M. & B.	Macadam	2,400.00	700.00
	Talbot Paving Co.	Sheet Asphalt	1,060.00	620.00
Unfinished.	W. P. & S. Co.	S. C. & Asphalt	15,400.00	3,600.00
Oct. 20, 1892	Barber Asphalt Paving Co.	Com. Curb & Gutter Asphalt	6,201.05	1,692.00
Dec. 16, 1892	Barber Asphalt Paving Co.	Repave Asphalt	2,338.04	553.75
Nov. 29, 1892	Barber Asphalt Paving Co.	S. C. & Sheet Asphalt	3,076.90	728.21
Nov. 16, 1892	Barber Asphalt Paving Co.	Sheet Asphalt	2,700.71	639.64
May 25, 1892	J. L. Fulton Co.	Repave Sheet Asphalt	204.44	115.00
June 7, 1892	Barber Asphalt Paving Co.	Resurface S. Asphalt	2,780.77	823.25
Aug. 6, 1892	Jas. Conlan	Granite	281.99	169.19
	R. F. Conway	Granite	383.33	150.00
	James Conlan	Repaved	1,466.67	200.00
TOTALS			469,875.81	267,098.24

Lineal feet Cedar Block paving.....183,881.51 feet, or 25.85 miles.

Lineal feet Macadam paving.....123,975.69 feet, or 23.48 miles.

Lineal feet Granite paving.....519.19 feet, or .10 miles.

Lineal feet Asphalt paving.....8,871.85 feet, or 1.10 miles.

GRAND TOTALS.....267,098.24 feet, or 50.59 miles.



## STREETS IMPROVED WITH MACADAM,

NAME OF STREET.	FROM	TO	COMMENCED.
Lincoln.....	Fifteenth.....	Eighteenth.....	Oct. 1, 1892
Halsted.....	Van Buren.....	Lake.....	June 6, 1892
Fulton.....	Clinton.....	Jefferson.....	.....
Alley.....	Randolph-Washington.	Canal-W. Water.	.....
Union.....	Lake.....	Kinzie.....	April 7, 1892
Congress.....	Loomis.....	Ashland.....	Nov. 1, 1892
Homan Ave.....	Colorado.....	Madison.....	Sept. 9, 1892
Elizabeth.....	Madison.....	Randolph.....	Oct. 28, 1891
Fulton.....	Homan.....	Central Park avenue....	June 30, 1892
Alley 1 No. of Washington.	Willard place.....	Elizabeth.....	July 6, 1892

## GRANITE AND ASPHALT, WEST DIVISION.

FINISHED.	CONTRACTOR.	NATURE OF IMPROVEMENT.	SQUARE YARDS.	LINEAL FEET.
Oct. 1, 1892	Springer & O'Connell.....	S. C. Macadam.....	2,921.67	691.96
Oct. 6, 1892	M. J. LaBounty.....	C. G. Granite.....	8,726.00	1,086.00
.....	Jas. Conlan.....	Granite.....	1,600.00	320.00
.....	Jas. Conlan.....	G. Granite.....	460.00	230.00
July 11, 1892	Gaffney & Long.....	C. G. & P. Granite...	4,590.00	860.00
Jan. 4, 1893	J. H. Farwell.....	C. G. & P. Asphalt..	5,370.00	1,231.00
Nov. 12, 1892	Barber Asphalt Co.....	C. G. Asphalt.....	4,814.00	1,087.00
July 27, 1892	W. P. & S. Co.....	Asphalt.....	3,499.00	830.00
Oct. 30, 1892	Barber Asphalt Paving Co....	C. G. Asphalt....	5,688.00	1,290.00
Nov. 30, 1892	W. P. & S. Co.....	W. C. G. & Asphalt..	405.00	250.00
TOTALS.....			19,776.00	4,688.00

Lineal Feet Cedar Block pavements .....190,997.37 feet or 36.17 miles.

Lineal Feet Asphalt paving..... 4,688.00 feet or .89 miles.

Lineal Feet Granite paving..... 2,496.00 feet or .47 miles.

Lineal Feet Macadam paving..... 691.96 feet or .13 miles.

GRAND TOTALS .....198,878.33 feet or 37.66 miles.

## SUMMARY OF STREETS IMPROVED DURING 1892.

PAVEMENT.	NORTH DIVISION, INCLUDING LAKE VIEW.			SOUTH DIVISION, INCLUDING HYDE PARK AND LAKE.			WEST DIVISION, INCLUDING JEFFERSON AND CICERO.			TOTALS.		
	Square Yards.	Lineal Feet.	Miles.	Square Yards.	Lineal Feet.	Miles.	Square Yards.	Lineal Feet.	Miles.	Square Yards.	Lineal Feet.	Miles.
Cedar .....	238,697.89	82,929.85	15.70	501,661.80	138,831.51	25.35	640,711.51	190,997.37	36.17	138,071.20	407,758.73	77.23
Asphalt .....	7,811.81	1,938.12	.37	33,761.91	8,771.85	1.66	19,776.00	4,688.00	0.89	61,349.72	15,397.97	2.92
Granite .....	1,474.85	336.50	.06	2,081.99	519.19	0.10	15,376.00	2,496.00	0.47	18,932.34	3,351.69	0.63
Macadam .....	77,062.50	18,930.20	3.59	433,931.91	123,975.69	23.48	2,921.67	691.36	0.13	513,966.08	143,597.85	27.20
Burnt Clay .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brick .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Viaduct Approaches .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
TOTALS .....	325,046.55	104,134.67	19.72	971,497.61	267,098.24	50.59	678,785.18	198,873.33	37.66	1,975,319.34	570,106.24	107.97
Curb and Fill, Curb Wall and Fill, etc. ....	.....	10,932.00	2.07	.....	58,427.00	11.07	.....	1,824.00	0.34	.....	71,183.00	13.48
GRAND TOTALS .....	.....	115,066.67	21.79	.....	335,525.24	61.66	.....	200,697.33	38.00	.....	641,289.24	121.45

## DISTRIBUTION OF KINDS OF PAVEMENT.

The following shows the kind of pavement in use in each division of the City, on December 31, 1892:

DIVISIONS.	Wood Block, Miles.	Macadam, Miles.	Stone, Miles.	Asphalt Block, Miles.	Sheet Asphalt, Miles.	Brick, Miles.	Burned Clay, Miles.	Grand Total, Miles.
North .....	125.50	47.56	0.59	.....	3.48	.....	.....	177.13
South .....	141.89	210.70	21.44	8.59	3.88	0.67	0.23	381.40
West .....	285.47	24.48	2.87	.....	5.46	.....	.....	317.78
Viaduct Approaches....	2.89	.....	.....	.....	.....	.....	.....	2.89
TOTAL MILES..	554.75	282.74	24.40	8.59	12.82	0.67	0.23	878.70

RECAPITULATION OF STREETS BY TOWNSHIPS, SHOWING PAVED AND UNIMPROVED STREETS,  
AT THE CLOSE OF THE YEAR 1892.

TOWNSHIP.	Number of Miles.	Cedar Block.	Macadam.	Medina Stone.	Granite.	Sheet Asphalt.	Block Asphalt.	Brick.	Burnt Clay.	Total.	Unimproved Streets—Miles.	Repaved in 1892. Miles.
North Division.....	168.49	87.52	1.07	0.49	0.10	8.48	.....	.....	.....	92.66	75.83	1.92
South Division.....	239.33	104.36	9.75	1.70	19.74	2.38	3.59	.....	.....	141.52	87.81	0.71
West Division. ....	473.53	275.94	20.45	0.89	1.98	5.46	.....	.....	.....	304.22	169.36	3.25
Hyde Park.....	565.06	10.13	143.47	.....	.....	1.00	.....	0.67	.....	155.27	409.79	4.23
Lake .....	376.44	26.90	57.48	.....	.....	.....	.....	.....	0.23	84.61	291.83	.....
Lake View.....	142.04	37.98	46.49	.....	.....	.....	.....	.....	.....	84.47	57.57	.....
Jefferson.....	271.26	9.53	.....	.....	.....	.....	.....	.....	.....	9.53	261.73	.....
Gano.....	143.40	.....	4.03	.....	.....	.....	.....	.....	.....	4.03	139.37	.....
Viaduct approaches.....	2.39	2.39	.....	.....	.....	.....	.....	.....	.....	2.39	.....	.....
<b>Totals .....</b>	<b>2,371.99</b>	<b>554.75</b>	<b>282.74</b>	<b>2.58</b>	<b>21.82</b>	<b>12.32</b>	<b>3.59</b>	<b>0.67</b>	<b>0.23</b>	<b>878.70</b>	<b>1,493.29</b>	<b>10.11</b>

TABLE SHOWING TOTAL MILES OF IMPROVED STREETS WITH PERCENT-AGE OF EACH CLASS OF PAVEMENT.

PAVEMENT.	MILES.	PER CENT.
Cedar Block.....	554.75	68.13
Macadam.....	282.74	32.19
Medina Stone.....	2.58	.29
Granite.....	21.82	2.50
Sheet Asphalt.....	12.82	1.40
Asphalt Block.....	3.59	.40
Brick.....	.67	.07
Burned Clay.....	.23	.02
TOTAL.....	878.70	100.00

The total number of miles of pavement laid each year from the introduction of street paving in 1855 to the present date, is given in the following review, the number of miles of paved streets in the annexed towns of Hyde Park, Lake and Lake View being added to the total of 1889. From 1835 to 1844 the work on streets consisted of grading only. From 1844 to 1855 improvements were made by planking, after which the more substantial forms of paving were employed.

Year.	Miles.	Year.	Miles.	Year.	Miles.	Year.	Miles.
1855	1.72	1865	2.03	1875	11.49	1885	38.06
1856	.26	1866	8.87	1876	10.50	1886	43.66
1857	2.62	1867	11.37	1877	12.29	1887	36.75
1858	7.20	1868	5.46	1878	11.01	1888	54.33
1859	5.70	1869	18.32	1879	6.83	1889	254.22
1860	....	1870	19.96	1880	16.84	1890	99.72
1861	.69	1871	25.63	1881	24.52	1891	117.59
1862	2.57	1872	1.82	1882	24.95	1892	107.97
1863	2.00	1873	10.19	1883	22.49		
1864	2.40	1874	9.07	1884	34.52		

TOTAL ..... 1,065.62

Of this amount 186.92 miles have been repaved during the same period, which reduces the actual amount of paved streets within the corporate limits on December 31, 1892, to 878.70 miles, to which may be added 1,493.29 miles of unimproved streets, making a total of 2,371.99 miles of streets in Chicago at this date; less 2.39 miles of viaduct approaches, making a grand total of 2,369.60.

## REPAVING.

The amount of repaving done by the division foremen in repairing improved streets, the replacing of pavement where openings were made by gas companies, water, sewerage, fire alarm and telegraph departments, bureau of light, etc., and on account of street permits and general repairs:

FOR WHAT PURPOSE.	NORTH DIV.	SOUTH DIV.	West Div.	TOTAL.
	Square Yds.	Square Yds.	Square Yds.	Square Yds.
General Repairs.....	10,535	21,897	32,924	65,356
Gas Companies.....	45	5		50
Water Department.....	390	684	339	1,413
Sewer Department.....	738	963	1,187	2,888
City Engineer's Department.....			115	115
Fire Department.....		60		60
Street Permits.....	6,114	3,907	5,799	15,820
<b>TOTALS.....</b>	<b>17,822</b>	<b>27,516</b>	<b>40,537</b>	<b>85,875</b>
Amount of repaving done by contrac- } tors for street repairs of the City.... }	38,530	50,513	81,843	170,886
<b>GRAND TOTAL.....</b>	<b>56,352</b>	<b>78,029</b>	<b>122,380</b>	<b>256,761</b>

Total number of square yards ..... 256,761

The above does not include any repaving done by contractors for Gas Companies, Bureau of Light, etc.

## LUMBER.

The following table shows in detail the amount of lumber used by the division foremen in the construction and repair of aprons, culverts, crossings, etc., and also for sidewalk intersections and general repairs:

FOR WHAT USED.	NORTH DIVISION.		SOUTH DIVISION.		WEST DIVISION.	
	Lumber.		Lumber.		Lumber.	
	No.	No. Feet.	No.	No. Feet.	No.	No. Feet.
Aprons.....	642	73,830	438	57,816	1,255	156,875
Crossings.....	977	128,964	763	106,820	1,780	231,400
Culverts.....	334	100,208	736	217,455	812	253,344
Drain boxes.....	38	7,161	65	13,128	88	18,920
Steps and railings.....	136	9,520	218	17,440	512	38,912
Sidewalk intersections.....	428	74,900	408	85,680	1,490	297,864
Sidewalk, general repairs.....		268,434	.....	501,768	.....	684,712
TOTALS.....	3,550	663,017	2,628	998,107	5,937	1,682,027

## RECAPITULATION.

North Division.....	663,017 feet of lumber.
South Division.....	998,107 feet of lumber.
West Division .....	1,682,027 feet of lumber.
GRAND TOTAL.....	3,343,151 feet of lumber.

## UNIMPROVED STREETS.

The money at the disposal of this Bureau for the purpose of grading and ditching has been judiciously expended in keeping unimproved streets in good, passable condition. The total length of streets graded and ditched by the division foremen amounts in the aggregate to about seven hundred and fourteen (714) miles.

The ditching of new streets, keeping old ditches free from stagnant water, and attempting to give residents of flooded districts relief involved the expenditure of large amounts. Unusual efforts were necessarily put forth in the direction last above indicated, and as a larger sum of money was expended to afford temporary relief than could be spared from a fund always inadequate, provision by an appropriation or assessment for this specific purpose is again suggested.



## IMPROVED STREETS.

## STREET SWEEPING AND CLEANING.

The sweeping and cleaning of the improved streets during the past year has been done as heretofore under contract and by the Department. From January 1 to April 8, and from November 30 to December 31, the Department employed men, carts and teams to remove snow, slush, etc., and keep the principal streets and intersections cleaned. From April 8 to November 30 all street cleaning (with the exception of macadamized roadways) was done under contract with J. S. Cooper. Owing to the great difficulty in procuring suitable places to dispose of the sweepings the cost of cleaning necessarily becomes greater each year. For several years the sweepings of the First Ward were conveniently disposed of on cars furnished at a slight cost by the Baltimore & Ohio Railroad Company at the foot of Washington street, but, through an injunction obtained by property owners in the vicinity, the City was obliged to abandon this dump and haul the sweepings at a much greater cost to other points. The same difficulty is also met with outside the First Ward; a few years ago convenient places could be had adjacent to the streets that were being cleaned--such as filling in the unimproved streets and lots that were below grade, and also within the curb line—but each succeeding year finds these places filled up, and the result is that the contractor is obliged to haul the sweepings to the City limits or elsewhere, and as these important facts confront him before bidding he naturally takes them into account; but notwithstanding these difficulties the cost of cleaning by contract this year was much cheaper than last, owing to the manner adopted by this Department in letting the contract. Heretofore the practice has been to advertise the improved streets of the entire City as a whole, and with the result that only firms of large capital would bid on such an undertaking, which lessened competition. This year, however, the City was divided into five districts and bids asked for on each district separately, with the result that while the lowest figure last year was \$27.50 per mile for the entire City, this year District Number 1, was \$20.00. District Number 2, \$23.40 and Districts Number 3, 4, and 5, \$23.50 each, or \$5.20 per mile in the aggregate cheaper; and we find, at the end of the contract year, that 5,745.42 miles were cleaned at a cost of \$129,276.91, while last year only 5,367.52 miles were cleaned by contract at a cost of \$147,593.07, making 377.90 miles more cleaned this year than last, and at a cost of \$8,316.16 less, the work terminating last year November 16, while this year it was continued to November 28.

A new departure was made during the past year in cleaning the streets in that portion of the First Ward between Van Buren street and the Chicago river. On May 6 the Patrol System was organized with forty-five uniformed men supplied with brooms and hand carts. Their work consisted in

removing paper, debris and other accumulations. Business men seemed to find it convenient to have the debris of their stores and sidewalks swept into the street in the early part of the day after the night cleaners had finished. The cost of organizing and maintaining the "system" was \$18,668.22, and during the time of its operations 3,150 miles were traversed and kept clean. In consequence of the establishment thereof the contractor was cut down five "sweepings" each month in the aggregate in the district cleaned by the same.

The cleaning of the alleys in the First Ward was done by this Department in conjunction with the Health Department, the former furnishing the labor while the latter furnished the Department teams. From May 5 to November 1, 344.08 miles were cleaned. The cost of the labor furnished by this Department amounted to \$4,007.81. Since November 1 the Department of Health has furnished all labor and teams to clean the alleys in this district.

The cleaning of the macadam roadways has been done by the district foremen of this Department. During the year 1,024 miles were scraped and cleaned at a cost of \$25,600.00.

The following table shows the number of miles of streets cleaned by the Department and cost of the same from January 1 to April 10 and from November 30 to December 31; also cost of removing snow and keeping intersections cleaned.

MONTHS.	IMPROVED STREETS.		INTERSECTIONS.	TOTAL COST.
	Miles.	Cost.	Cost.	
January.....	52.41	\$ 3,041 44	\$4,547 00	\$ 7,588 44
February.....	187.00	5,911 66	1,732 75	7,644 41
March.....	234.94	6,918 81	162 00	7,075 81
April.....	36.54	1,442 29	.....	1,442 29
December.....	148.27	4,757 29	1,700 00	6,457 29
Totals .....	659.16	\$22,065 99	\$8,141 75	\$30,207 74

The streets scheduled for cleaning by contract were divided into five districts, and each district (except district No. 1) was divided into five classes, B to F inclusive. Class A being district No. 1, or First Ward, the streets were scheduled to be cleaned four times each week; the other classes in their respective districts were scheduled as follows, to wit:

Class B twice each week; class C once each week; class D twice each month. Class E once each month, and class F (alleys) once each month.

The following is the boundary of each of the five districts, the number of miles of improved streets and alleys in each, and the cost of cleaning per mile, viz :

District No. 1, being in the South Division north of Twelfth street, containing 28.30 miles, and the contract price was \$20.00 per mile.

District No. 2, South division of the City south of Twelfth street, containing 113.48 miles, the contract price was \$23.40 per mile.

District No. 3, West division of the City south of West Madison street, containing 136.59 miles, the contract price was \$23.50 per mile.

District No. 4, West division of the City north of West Madison street, containing 130.82 miles, the contract price was \$23.50 per mile.

District No. 5, North division of the City, containing 108.35 miles, the contract price was \$23.50 per mile.

The following tables show number of miles of streets cleaned each month by contractor in districts No. 1 to 5 inclusive, from April 10th to November 28th :

#### DISTRICT NUMBER ONE--FIRST WARD.

MONTHS.	MILES.	COST.
April .....	170.00	\$ 3,400 00
May.....	106.51	3,330 20
June .....	195.51	3,910 20
July.....	230.96	4,619 20
August .....	246.76	4,935 20
September .....	231.65	4,633 00
October.....	239.40	4,788 00
November .....	135.19	2,703 80
Totals .....	1,615.98	\$32,819 60

## DISTRICT NUMBER TWO.

(SOUTH DIVISION SOUTH OF TWELFTH STREET.)

MONTHS.	MILES.	COST.
April .....	48.58	\$1,019.77
May .....	112.76	2,638.58
June .....	120.41	2,817.59
July .....	140.28	3,282.54
August .....	173.42	4,058.02
September .....	184.90	3,156.65
October .....	119.83	2,792.32
TOTALS .....	844.68	\$19,765.47

## DISTRICT NUMBER THREE.

(WEST DIVISION SOUTH OF MADISON STREET.)

MONTHS.	MILES.	COST.
April .....	90.28	\$2,121.58
May .....	144.28	3,390.58
June .....	174.99	4,112.27
July .....	205.73	4,834.66
August .....	205.44	4,827.84
September .....	187.10	4,396.85
October .....	179.49	4,218.01
November .....	9.65	226.77
TOTALS .....	1,196.96	\$28,128.56

DISTRICT NUMBER FOUR.  
(WEST DIVISION NORTH OF MADISON STREET.)

MONTHS.	MILES.	COST.
April.....	79.40	\$1,866.13
May.....	144.18	3,387.99
June.....	132.14	3,105.28
July.....	185.79	4,866.06
August.....	179.02	4,206.97
September.....	164.79	3,872.57
October.....	161.02	3,783.97
November.....	9.96	284.06
TOTAL.....	1,056.30	\$24,823.03

DISTRICT NUMBER FIVE.

(BEING NORTH DIVISION.)

MONTHS.	MILES.	COST.
April.....	76.53	\$1,798.45
May.....	116.00	2,726.00
June.....	116.09	2,728.12
July.....	178.86	4,203.21
August.....	172.93	4,063.80
September.....	182.25	4,282.87
October.....	154.06	3,620.42
November.....	34.78	817.93
TOTAL.....	1,031.50	\$24,240.20

## RECAPITULATION OF STREET CLEANING FOR 1892.

STREET CLEANING.	Total Number of Miles.	Average Number of Miles per Month.	Total Cost.	Average Cost per Mile.
Under contract Districts No. 1 to 5 inclusive .....	5,745.42	718.18	\$129,276.91	\$22.50
By the Department cleaning 659.16 miles and removing snow, etc., and keeping intersections cleaned from January 1st to April 10th, and from November 30th to December 31st....	659.16	164.79	30,207.74	.....
By the district foreman of the Department, cleaning 1,024 miles macadamized roadways in their respective districts during the year.....	1,024.00	.....	25,600.00	.....
By the Department labor furnished to clean alleys in First Ward .....	344.08	.....	4,007.81	.....
Patrol System .....	3,150.00	.....	18,668.22	.....
Inspection on contract.....	.....	.....	7,997.96	.....
GRAND TOTALS .....	10,922.66	.....	\$215,758.64	.....

Total number loads removed from First Ward..... 39,413

Total number loads removed from outside First Ward..... 113,506

Total..... 152,919

## PERMITS FOR OPENING STREETS.

Two thousand five hundred and fifty four (2,554) permits were issued to sundry persons to open improved streets. A cash deposit covering cost of replacing pavements, etc., to their original condition was made on each permit.

Eight thousand six hundred and twenty-five (8,625) openings were made on improved streets by gas companies and sundry other corporations under general deposit, the work of replacing the pavements being done by contractors subject to inspection and acceptance of the Department.

Total number of openings, eleven thousand one hundred and seventy-nine (11,179).

## FOR OPENING STREETS FOR THE CORRESPONDING YEARS 1891-1892.

MONTHS.	Number of Permits Issued in 1891.	Number of Permits Issued in 1892.	MONTHS.	Number of Permits Issued in 1891.	Number of Permits Issued in 1892.
January.....	90	63	August.....	206	273
February.....	83	95	September.....	193	235
March.....	106	193	October.....	239	230
April.....	218	257	November.....	175	230
May.....	175	275	December.....	129	182
June.....	225	252			
July.....	225	269	TOTALS.....	2,059	2,554

	—1891.—	—1892.—
Average number of permits issued each month.....	172	213
Number of permits issued for opening of streets on which deposits were made (not including openings by gas companies and other corporations on general deposit).....	2,059	2,554
Number of permits issued for opening unimproved streets by corporations.....	8,766	8,625
Total.....	10,825	11,179
Amount of cash deposits made.....	\$ 43,268 00	\$53,289 00
Amount retained for cost of repaving and inspection.....	12,037 75	13,609 98
Amount rebated to depositors.....	23,010 65	28,724 68
Amount retained on permits not settled.....	8,202 05	10,796 75
Average amount of each deposit.....	20 52	20 87
Average amount retained for costs.....	5 85	5 33

## PERMITS FOR USE OF STREETS.

Two thousand six hundred and twenty-three (2,623) permits were issued to sundry parties to occupy streets for the purpose of depositing materials thereon during the construction of buildings.

The number of permits issued monthly, the amount of cash deposits and revenue received, is given in the following comparative statement:

## FOR THE USE OF STREETS FOR THE CORRESPONDING MONTHS OF 1891-1892.

MONTHS.	Number of Permits Issued in 1891.	Number of Permits Issued in 1892.	MONTHS.	Number of Permits Issued in 1891.	Number of Permits Issued in 1892.
January.....	111	112	August.....	174	224
February.....	177	128	September.....	183	212
March.....	205	282	October.....	203	202
April.....	216	322	November.....	119	147
May.....	216	329	December.....	104	107
June.....	229	312			
July.....	223	246	TOTALS.....	2,160	2,623

	—1891.—	—1892.—
Average number of permits issued each month . . . . .	180	218
Amount of cash deposits made . . . . .	\$14,255 00	\$18,797 50
Amount retained for use of streets as per Section 1,104 Municipal Code. . . . .	6,594 00	9,081 50
Amount rebated to depositors. . . . .	3,796 00	3,601 00
Amount retained on permits not settled. . . . .	3,865 00	6,520 00
Average amount of cash deposits. . . . .	6 60	7 17
Average amount retained for use of streets. . . . .	3 05	3 46
Total number of permits issued. . . . .	2,160	2,623

## HOUSE MOVING.

Sixteen hundred and seven (1,607) permits to move buildings were granted, of which fourteen hundred and seventy-seven (1,477) were for frame buildings, one hundred and twenty-eight (128) for brick, and two (2) iron cable reels, the total frontage of which is thirty-three thousand one hundred and forty-seven (33,147) feet.

Of this number four hundred and fourteen (414) were in the North Division, six hundred and eighty-six (686) in the South Division, and five hundred and five (505) in the West Division. Eight hundred and sixty (860) were one story, seven hundred and thirty-one (731) were two stories, eighteen (18) were three stories, and two (2) were four stories high.

Total cash receipts, five thousand one hundred and thirty-three dollars (\$5,133.00).

The accompanying table shows the number and character of the buildings moved each month, the frontage occupied by the buildings moved, and the monthly receipts from this service.



## HOUSE MOVING.

MONTHS, 1892.	Number Permits	MATERIAL.			STORIES HIGH.				DIVISION.			FRONTAGE. Lineal feet.	FEES.					Cash Receipts.
		Frame.	Brick.	Iron.	One.	Two.	Three.	Four.	West.	South.	North.		\$1.00.	\$2.00.	\$3.00.	\$7.50.	\$10.00.	
January.....	50	44	6	...	28	27	...	...	15	25	10	1,003	26	...	10	14	...	\$ 181 00
February.....	120	112	8	...	74	46	...	...	38	54	28	2,555	66	...	25	29	...	408 50
March.....	164	152	11	1	97	61	4	1	61	60	18	2,959	110	...	18	34	...	455 00
April.....	200	182	17	1	114	84	...	...	55	89	56	4,261	110	...	39	50	...	680 00
May.....	206	196	10	...	94	106	4	1	63	88	59	4,440	107	...	43	54	1	737 00
June.....	154	138	16	...	92	58	3	...	50	49	46	3,110	90	1	39	24	...	467 00
July.....	121	111	10	...	57	63	1	...	31	56	34	2,868	67	...	30	23	1	399 50
August.....	138	127	11	...	70	67	1	...	48	57	33	2,840	82	...	30	26	...	427 00
September.....	135	121	14	...	71	61	3	...	41	58	36	2,885	82	...	39	14	...	382 00
October.....	121	111	10	...	51	68	2	...	36	55	30	2,701	60	...	53	8	...	385 00
November.....	81	74	7	...	43	38	...	...	23	40	18	1,860	43	...	35	3	...	240 50
December.....	117	109	8	...	64	53	...	...	35	60	22	1,665	58	...	52	7	...	370 50
TOTALS.....	1,607	1,477	128	2	860	731	18	2	505	686	414	33,147	901	1	413	286	2	\$5,133 00

## STREET DEPARTMENT.

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TOTAL NUMBER OF MILES OF SIDEWALK UNDER THE CONTROL OF THE CITY AND THE SOUTH, WEST AND  
LINCOLN PARK COMMISSIONERS AT THE CLOSE OF YEAR.

UNDER CONTROL OF	MATERIAL.			TOTAL MILES.	BUILT DURING 1892.			TOTAL MILES.
	Wood, Miles.	Stone, Miles.	Concrete, Miles.		Wood, Miles.	Stone, Miles.	Concrete, Miles.	
City .....	3,356.49	212.60	299.03	3,868.12	625.00	8.69	150.07	783.76
South Park Commissioners .....	.....	15.30	15.95	31.15	.....	.....	4.06	4.06
West Park Commissioners .....	.....	11.05	14.97	26.02	.....	.....	11.08	11.08
Lincoln Park Commissioners .....	.....	2.17	8.97	6.14	.....	.....	0.75	0.75
Totals .....	3,356.49	241.12	333.82	3,931.43	625.00	8.69	165.96	799.65

NUMBER OF MILES OF WOOD, STONE AND CONCRETE SIDEWALK BUILT  
DURING THE YEAR 1892.

DIVISION.	Wood, Miles.	Stone, Miles.	Concrete, Miles.	Total Miles.	Sidewalks Repaired.	Total Work.
North.....	75.00	1.80	30.00	106.80	13.14	119.44
South.....	250.00	3.00	80.96	333.96	58.38	392.34
West.....	300.00	4.39	55.00	359.39	62.81	422.20
TOTAL.....	625.00	8.69	165.96	799.65	134.33	933.98

103.85 miles of sidewalk built by special assessment during the year 1892.

### RAILROAD GATES AND FENCES.

The ordinance of March 26, 1890, providing for the construction of fences, gates, lights, etc., at the streets intersecting the lines of the several railroads operating trains within the City limits, and regulating the speed of the same with a view to better protect the lives and property of citizens against accident has met with general compliance. Six hundred and seventeen (617) gates and one hundred and seventy and seventy-nine hundredths (179.79) miles of fences were erected since the above date.

The accompanying table shows the work in detail done by the several railroad companies.

NAME.	FENCES CONSTRUCTED—MILES					TOTAL MILES.	GATES IN OPERATION		TOTAL GATES.
	Wall.	Board.	Picket.	Expanded Metal.	Woven Wire.		Prior to 1892.	During Year.	
Chicago, Rock Island & Pacific . . . . .		0.05	7.52		1.64	9.21	48		48
New York, Chicago & St. Louis. . . . .					7.50	7.50			
Illinois Central. . . . .	4.65	0.20			19.10	23.95	24	3	27
Baltimore & Ohio . . . . .					6.00	6.00	22		22
Chicago & Grand Trunk . . . . .					3.60	3.60	5	3	8
Western Indiana . . . . .			1.35		1.75	3.10	43	5	48
Wabash . . . . .					2.14	2.14			
Atchison, Topeka & Santa Fe . . . . .					4.00	4.00	1		1
Chicago & Northern Pacific. . . . .				2.60	8.80	11.40	20	2	22
Chicago, Burlington & Quincy. . . . .			2.50		5.30	7.80	35		35
Chicago & Alton . . . . .					1.16	1.16	26		26
Chicago, Milwaukee & St. Paul. . . . .					13.69	13.69	34	6	40
Pittsburgh, Cincinnati, Chicago & St. Louis. . . . .			3.20	0.86		4.06	56		56
Pittsburgh & Fort Wayne . . . . .			10.10	1.00		11.10	36	4	40
Chicago & North-Western. . . . .		6.50	11.80	2.50	32.90	53.70	162	14	176
Chicago & Madison . . . . .							10		10
St. Charles Air Line. . . . .							5		5
Union Stock Yards Company. . . . .							4	3	7
Lake Shore & Michigan Southern . . . . .	0.02	1.92	6.62			8.56	46		46
TOTAL. . . . .	4.67	8.67	43.09	6.96	107.58	170.97	577	40	617

Respectfully submitted,

J. H. BURKE,

*Superintendent of Streets.*

## STREET LAMPS.

J. H. BURKE, Esq.,

*Superintendent of Streets.*

DEAR SIR:—I have the honor to hand you herewith the Annual Report of work done by the City Lamp Department during the year 1892; also showing cost of repairs of all kinds done on lamp posts and lamp service pipes by the several gas companies acting on orders from this Department.

The volume of work done by the Department during the past year was the largest in the City's history, and included some improvements and new features which have met with the hearty approval of all classes of citizens. For example, at a consultation held with the Commissioner of Public Works and yourself early in the Spring, it was decided to paint the lamps and lamp posts a light or cream color, in the different divisions of the City, as far as the condition of the lamp fund would permit. Following the understanding had at this meeting, we painted in the North Division 2,727 plain city pattern posts and 431 boulevard posts cream color (two coats of paint to each post), and put up 2,727 new cream color lamps to replace those worn out. The district covered is bounded as follows:

Lake Michigan on the east, Grand avenue in Edgewater on the north, Chicago river on the south, and on the west by a line of streets beginning (at Grand avenue) with Clark street and running as follows: to Graceland avenue, to Racine avenue, to Addison street, to Southport avenue, to Fullerton avenue, to North Halsted street, to North avenue, to Sedgwick, to Division, to Wells, south to Chicago river.

In the South Division 1,578 plain city pattern posts and 813 boulevard posts were painted cream color, and 1,578 new cream color lamps were put up to replace lamps worn out. The district covered is bounded as follows: Lake Michigan on the east, Sixteenth street on the north, Fifty-ninth street on the south, and on the west by the line of streets beginning (at Sixteenth street) with Michigan avenue south to Thirty-ninth street, Thirty-ninth street east to Drexel boulevard, Drexel boulevard south to Fifty-first street, Fifty-first street east to Woodlawn avenue, Woodlawn avenue south to Fifty-ninth street, and Fifty-ninth street east to Lake Michigan.

A small district between Fifty-sixth street and Sixty-third street and Wabash and Indiana avenues was also painted.

In the West Division 1,496 plain city pattern posts were painted and 101 boulevard posts, and 1,496 new cream color lamps were put up to replace worn out lamps. The district covered is bounded as follows:

Ohio street on the north, Twelfth street on the south, Aberdeen street on the east and Paulina street on the west.

In the district in the vicinity of Wicker Park, bounded as follows, the lamps and lamp posts were also painted: Milwaukee avenue on the east, Leavitt street on the west, North avenue on the north and Division street on the south.

A new departure in the way of putting house number signs on lamps in the middle of each block was inaugurated and carried out to the extent of putting up 5,239 of these number signs. This has proved the most popular of any of the improvements made during the year, and the Department has been warmly commended both by the public and the press for its work in this direction. The work of making and putting up these signs proves a big undertaking when you come to consider the vast territory to be covered, but the work is progressing rapidly, and should be completed by the middle of the year 1893.

In addition to these signs there were 15,056 street name signs put in lamps at street intersections during the year.

The total number of lamps, repairs and signs which are taken care of by this Department is as follows: Gas lamps, 29,997; gasoline lamps, 10,748. In addition to this the Department manufactures and keeps in proper repair the street name signs for the electric lamps, which number 1,102.

In conclusion, would call your attention to the condition of the lamp fund at the close of business for 1892. The original appropriation for the year was seventy thousand dollars (\$70,000); during the year \$246.65 was collected from parties guilty of damage to lamps and posts, and work to the value of \$10,507.50 was done for account of Special Assessment Department; in all making a fund of \$80,754.15. The total expenditures for the year amount to but \$74,628.94, leaving a balance to our credit of \$6,125.21. Of this balance \$5,935.50 is still due from the Special Assessment Department. Following is the detailed statement of all work done:

#### GAS LAMPS PUT UP.

	Number.
New gas lamps put on posts for Special Assessment Department during the year 1892, and for which credit will be made to the Lamp Fund. ....	2,134
New green gas lamps put on posts for repairs to replace worn out lamps. ....	104
New cream color lamps put on posts to replace worn out lamps. ....	5,801
Repaired gas lamps put on posts during 1892. ....	2,039
Total number of new and repaired gas lamps put up during year ending December 31, 1892. ....	10,078

#### GASOLINE LAMPS PUT UP.

New gasoline lamps put on posts for Special Assessment Department during 1892, and for which credit will be made to the Lamp Fund. ....	201
New green gasoline lamps put on posts to replace worn out lamps. ....	191
Repaired gasoline lamps put up during 1892. ....	2,011
Total number of new and repaired gasoline lamps put up during 1892. ....	2,403

## LAMP POSTS PAINTED.

Total number of City pattern lamp posts painted cream color (two coats of paint to each post) in the North, South and West Divisions of the City during 1892.....	5,801
Total number of Boulevard lamp posts painted cream color (two coats of paint to each post) in the North, South and West Divisions of the City during 1892.....	1,345
Total number painted terra cotta.....	39
Total number of lamp posts of all patterns painted during 1892.....	7,185

## STREET SIGNS OF ALL KINDS PUT UP DURING 1892.

Blue glass 3x16 street name signs put up in gas and gasoline street corner lamps...	11,245
Blue glass 4x18 street name signs put in electric lamps.....	598
Opal glass 4x18 strips put up for backing to electric signs.....	599
Blue glass 3½x11¼ street name signs put in Miner lamps.....	674
Wood signs put on posts in districts where there are no street lamps at street intersections.....	1,940
House number signs put in lamps in middle of blocks in different parts of City, for convenience of citizens in locating any particular residence.....	5,239
Total signs of all kinds put up during 1892.....	20,295
Wood posts, 4x4, erected for wood signs.....	752

NEW AND REPAIRED LAMPS OF ALL KINDS PUT UP DURING 1892, ALSO  
REPAIRS OF ALL KINDS DONE ON GAS LAMPS,  
LAMP POSTS AND SERVICE PIPES.

2,134 New (green) gas lamps put on lamp posts for Special Assessment Department during the year 1892, at \$3.50.....	\$7,469 00
75 New plain green gas lamps put on posts to replace worn out gas lamps, at \$2.85.....	\$ 213 75
29 New sign green gas lamps put on posts to replace worn out gas lamps, at \$3.15.....	91 85
2,089 Repaired green gas lamps put on posts during year, at \$1.25	2,548 75
3,914 New plain cream color gas lamps put on posts to replace worn out lamps, at \$2.85.....	11,154 90
1,887 New sign cream color gas lamps put on posts to replace worn out lamps, at \$3.15.....	5,944 05
5,801 Lamp posts painted cream color during year (two coats of paint to each post).....	2,683 90
1,345 Boulevard lamp posts painted cream color during year (two coats of paint to each post).....	473 75
39 Lamp posts painted terra cotta during year.....	16 85
Lamp posts erected for repairs by the different Gas Companies to replace posts broken during the year as follows:	
408 Peoples Gas Company, at \$6.80.....	\$ 2,570 40
258 Chicago Gas Light & Coke Co., at \$6.80.....	1,625 40
40 Hyde Park Gas Company, at \$6.80.....	252 00
25 Lake Gas Company, at \$6.80.....	157 50
204 Bartlett globes, at \$3.00.....	612 00
83 Bartlett frames, at \$2.25.....	186 50
156 Bartlett tops, at \$3.50.....	546 00

114 Bartlett reflectors, at 55 cents .....	\$ 62 70
693 Boulevard Stewart globes, at \$2.50.....	1,732 50
641 Boulevard Stewart domes, at \$1.00.....	641 00
470 Boulevard Stewart tops, at \$1.50.....	705 00
9 Boulevard Stewart frames, at \$4.25.....	38 25
246 Boulevard sign frames, at 50 cents.....	123 00
18 Miner globes, at \$1.00.....	18 00
3 Boulevard lamps complete, at \$9.50.....	28 50
336 Rings and rubbers, at 14 cents.....	47 04
958 Glass strips, at 2 cents.....	19 16
95 Galvanized iron sleeves, at 5 cents.....	4 75
126 Boxes for use in City Hall, 32 cents.....	40 32

Amount paid the different Gas Companies for repairs on  
lamp posts and service pipes during 1892:

Peoples Gas Light & Coke Company.....	8,084 84
Chicago Gas Light & Coke Company.....	5,968 11
Hyde Park Gas Company.....	1,675 05
Suburban Gas Company.....	1,848 89
Lake Gas Company.....	935 41

\$50,948 62

New and repaired gasoline lamps of all kinds put up during 1892,  
also manufacture and repairs of all kinds incidental to gas-  
oline operation:

201 New green gasoline lamps put on lamp posts for Special Assessment Department during the year 1892, at \$3.50.....	\$ 708 50
176 New plain green gasoline lamps put on posts to replace worn out lamps, at \$3.00.....	528 00
5 New sign green gasoline lamps put on posts to replace worn out lamps, at \$3.20.....	16 00
2,011 Repaired gasoline lamps put on posts during the year at \$1.25	2,513 75
10 New cream color gasoline lamps put on posts during the year, at \$3.05.....	30 50
5 Iron gasoline lamp posts erected, at \$6.80.....	31 50
138 Wooden gasoline lamp posts erected, at 50 cents.....	69 00
350 Gasoline lamp posts straightened and fastened, at 25 cents..	87 50
376 Boxes, City sides, at \$1.88.....	688 08
406 Boxes, City sides, at \$1.98.....	763 28
35 Boxes of Chicago sides, at \$1.88.....	64 05
26 Boxes of Chicago sides, at \$1.88.....	48 88
122 Boxes of tops, at \$1.70.....	207 40
135 Boxes of tops, at \$1.75.....	236 25
2 Brackets, at \$4.50.....	9 00
81 Oil founts, at \$1.00.....	81 00
87 Sun burners, at 18 cents.....	15 66
34 New blow pipes, at \$4.00.....	136 00
612 Blow pipes repaired, at 50 cents.....	306 00
3,564 Atomizers, at 10 cents.....	356 40
2,742 New burners, at 50 cents.....	\$ 1,371 00
1,993 Burners repaired, at 30 cents.....	597 90
98 New fillers, at 50 cents.....	46 50



139	Fillers repaired, at 15 cents.....	\$ 20 85	
117	New tanks, at 40 cents.....	46 80	
73	Tanks repaired, at 15 cents.....	10 95	
1,682	Valves, at 10 cents.....	168 20	
628	Feed pipes, at 15 cents.....	94 20	
35	New faucets, at 48 cents.....	16 80	
1	Faucet repaired, at 16 cents.....	16	
15	Braces, at 75 cents.....	11 25	
23	Bits, at 38 cents.....	8 74	
181	Pairs of pliers, at 35 cents.....	45 85	
136	New five-gallon cans, at \$1.25.....	170 00	
124	Five-gallon cans repaired, at 25 cents.....	31 00	
34	Six-foot ladders, at \$1.00.....	34 00	
85	Seven-foot ladders, at \$1.20.....	102 00	
7	Eight-foot ladders, at \$1.25.....	8 75	
434	Balls of wicking, at 2 cents.....	8 68	
684	Corks, at 3 cents.....	20 52	
6	Glass cutters, at 8 cents.....	48	
6	Bunches of copper wire, at 30 cents.....	1 80	
5	Packages of tank bolts, at 36 cents.....	1 80	
94	Boxes of Potash, at 8 cents.....	7 52	
91	Angle irons, at 15 cents.....	13 65	
63	Iron straps, at 10 cents.....	6 30	
98	Sheets of emery cloth, at 4 cents.....	3 92	
28	Pounds of nails, at 5 cents.....	1 40	
1	Soldering iron, at 41 cents.....	41	
2	Funnels, at 25 cents.....	50	
3	Scantlings, at 10 cents.....	30	
36	Tin Collars, at 1 cent.....	36	
34	Glass strips, at 7 cents.....	2 38	
25	Screws, at 1 cent.....	25	\$9,048 47

## STREET SIGNS—BLUE GLASS, OPAL GLASS AND WOOD, PUT UP DURING 1892.

11,245	Blue glass signs, 8x16, put in gas and gasoline street corner lamps during year, at 30 cents.....	\$3,373 50	
598	Blue glass signs, 4x18, put in electric lamps, at 45 cents....	269 10	
599	Strips of opal glass, used as backing for electric signs, 4x18, at 15 cents.....	89 85	
674	Glass signs put on Miner lamps during year, 3½x11¾, at 30 cents.....	202 20	
5,239	House numbers put in street lamps in middle of blocks at 30 cents.....	1,571 70	
752	Wood posts erected for signs, at 50 cents.....	376 00	
1,940	Wood signs put on posts in districts where there are no street lamps on corners, at 30 cents.....	582 00	
Total cost of street signs erected during 1892.....			\$ 6,464 35
Grand total of cost of material and labor of all kinds used in the manufacture and repair of lamps, lamp posts and lamp service pipes; also in the manufacture of street name and street number signs during 1892.....			\$74,628 94

SUMMARY OF WORK OF ALL KINDS DONE BY AND THROUGH THE AGENCY  
OF CITY LAMP SHOP DURING 1892.

New gas lamps erected on orders from Special Assessment Department, and for which credit will be made to lamp fund.....	\$ 7,460.00	
Net cost of repairs on gas lamps during 1892.....	24,774.87	
Net cost of repairs done by the different gas companies on gas lamp posts and service pipes.....	18,462.30	
Cost of iron posts used to replace broken ones during 1892.....	4,605.30	
Cost of painting 7,146 lamp posts (two coats of paint to each post)..	3,106.65	
New gasoline lamps put up on orders from Special Assessment Department, and for which credit will be made to lamp fund...	708.50	
Cost of repairs of all kinds on gasoline lamps, including making and repairing lamps, burners, valves, atomizers, feed pipes, blow pipes, etc.....	9,043.47	
Cost of manufacture and erection of street name signs and house number signs of all kinds during year.....	6,464 35	
Total expenditures for the year 1892....		\$74,628.94

CONDITION OF LAMP FUND AT CLOSE OF YEAR 1892.

Amount of appropriation.....	\$70,000 00	
Credits account of collections made during year from parties charged with breaking city lamps, lamp posts, etc.....	246 65	
Credited from Special Assessment Department account of work done on its orders during 1892.....	4,572 00	
Amount still due from Special Assessment Department for work done on its orders during 1892.....	5,935 50	
Total fund from all sources....		\$80,754 15
Deduct total amount expended for new work and repairs of all kinds during 1892.....		74,628 94
Balance to credit of the lamp fund at close of business for year 1892 (of this balance the sum of \$5,935.50 is still due from Special Assessment Department).....		\$ 6,125 21

The following is the number of gas, gasoline and kerosene lamps, lamp posts and lamp service pipes, repairs on which are taken care of by this Department; also number of electric lamps on which signs are erected and repaired by this Department.

Gas lamps .....	29,997	
Gasoline (City).....	4,104	
Gasoline (G. L. & H. Co.).....	6,644	
Electric lamps.....	1,102	
Total number of lamps of all kinds, December 31, 1892.....		41, 847

All of which is respectfully submitted,

JOHN J. O'CONNELL,

*Superintendent Street Lamp Repairs.*





REPORT  
of the

Bureau of Special Assessments

CITY OF CHICAGO



# BUREAU OF SPECIAL ASSESSMENTS.

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HON. J. FRANK ALDRICH,

*Commissioner of Public Works.*

DEAR SIR:—I submit herewith in tabular form a statement of special assessments made in this department during the past year, with a summary of the estimated cost of the same ; also the amount of special assessments made in each year during the past thirty-two years.

J. S. SHEAHAN.

## STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT.

No. of Warr'nt	NAME OF STREET.	FROM	TO	AMOUNT.
14459	Vine.	Vedder.	Rees.	\$ 1,185 10
14460	Roscoe.	Clark.	Halsted.	7,952 33
14461	Twenty-seventh.	Stewart avenue.	Honore.	6,764 31
14490	Irving avenue.	West Thirteenth.	West Fourteenth.	7,881 73
14491	Fall.	Lake.	Warren avenue.	4,948 71
14492	Noble avenue.	Sheffield avenue.	Racine avenue.	8,522 76
14494	Hoyne avenue.	Thirteenth.	Fourteenth.	8,784 26
14510	Oakley avenue.	Fullerton avenue.	Station.	6,187 35
14511	Alley.	Irving avenue and Leavitt.	Adams and Jackson.	694 35
14512	Alley.	Grove and Webster avenue.	Orchard and Larrabee.	979 05
14513	Alley.	Wood and Lincoln.	Huron and Superior.	1,833 70
14514	Alley.	Block 1.	Bickerdike's Addition.	1,025 67
14515	Alley.	Superior and Chicago avenue.	North Clark and La Salle avenue.	1,671 98
14516	Alleys.	Madison and Monroe.	Western avenue and Campbell avenue.	2,331 85
14517	Alleys.	Wilcox and Adams.	Western avenue and Campbell avenue.	2,581 39
14518	Ferdinand.	Ashland avenue.	Paulina.	2,876 50
14519	Bixley.	Kinzie.	Austin avenue.	2,716 94
14522	West Twentieth.	Blair.	Jefferson.	2,807 29
14523	String.	West Sixteenth.	Canalport avenue.	9,063 24
14524	Girard.	Armitage avenue.	Hervey.	6,178 46
14526	Ruble.	West Sixteenth.	West Eighteenth.	4,916 55
14527	Alley.	Twenty-first and Twenty-second.	Wabash avenue and Michigan avenue.	2,643 10
14528	Milton avenue.	Chicago avenue.	Division.	23,061 48
14529	North avenue.	Clybourn avenue.	North branch Chicago river.	13,989 98
14530	Alleys.	Prairie avenue and Calumet avenue.	Twenty-second and Twenty-third.	2,814 71
14531	George.	Southport avenue.	Halsted.	26,361 39
14615	Alley (north and south).	Block 24.	Ashland 2nd Addition.	865 15
14616	Dearborn.	Forty-third.	Forty-seventh.	22,129 84
14617	Seventeenth.	State.	Clark.	5,613 84
14618	Twenty-fifth.	Prairie avenue.	Calumet avenue.	2,677 68
14619	Thirty-sixth.	Halsted.	Laurel.	15,233 95
14620	State.	P. Ft. W. & C. Ry.	Sixty-eighth.	28,430 53
14624	Alley.	Milwaukee avenue and Ashland avenue.	Tell place and Emma.	4,550 60
14625	Hastings.	Wood.	Leavitt.	34,813 71
14626	Sixty-third.	Halsted.	Center avenue.	19,612 65
14656	Belknap.	Morgan.	Western avenue.	1,042 94

14656	Halsted.	Harrison.	Twelfth.	15,066 23
14659	Wesson	Chicago avenue.	Oak.	10,965 21
14660	Union.	Madison	Lake	8,156 59
14661	South Park avenue.	Twenty-second	Twenty-sixth.	21,813 04
14786	Paulina	Belmont avenue	Roscoe.	9,416 01
14738	Ordan avenue.	West Twenty-second.	West Forty-second.	18,539 40
14742	Armour avenue	Twenty-second	Twenty-fifth	16,810 82
14743	Western avenue.	Division	North avenue.	21,429 57
14744	Mospratt	Thirty-first.	Thirty-fourth.	20,865 15
14745	Best avenue.	Wrightwood avenue.	Diversey.	8,608 64
14747	Lawndale avenue.	West Ohio.	West Chicago avenue.	11,787 66
14758	Moffat	Western avenue	Rockwell	11,638 87
14768	Wallace.	Wilson.	Forty-seventh.	16,297 84
14769	Western avenue	Indiana.	West Chicago avenue	15,668 45
14770	Robey	Thirteenth.	Fourteenth	7,511 85
14771	Monticello avenue.	Kinzie	Chicago avenue.	22,745 88
14772	Harvard	California avenue.	Kedzie.	27,562 55
14773	Leavitt	Thirteenth	Fourteenth.	8,553 63
14776	West Twenty-first.	Kedzie avenue.	Turner avenue	8,224 87
14777	West Nineteenth.	Kedzie avenue	Turner avenue	7,077 06
14779	Parnell avenue	Thirty-fifth.	Thirty-seventh.	13,888 15
14782	Troy.	Kinzie.	Chicago avenue.	22,145 79
14786	Twenty-second	Wentworth avenue.	State.	7,630 55
14787	Kedzie avenue.	Twenty-second	Twenty-sixth.	26,028 92
14788	Fifty-third	State.	School.	16,339 99
14795	Forty-fifth.	State	Wentworth avenue.	10,111 12
14800	Noble avenue.	Ashland avenue	Racine avenue.	16,882 82
14815	Station	Western avenue.	Leavitt.	14,501 93
14816	Wilson.	Winter	Green	14,639 12
14830	Armour avenue.	Forty-third.	Forty seventh	20,667 76
14831	Princeton avenue.	Root	Forty seventh	30,416 43
14832	Lincoln.	Twelfth.	Fifteenth	31,082 04
14833	Alley	Claremont avenue, Oakley avenue.	Florenoy and Polk.	2,065 64
14834	Armour avenue	Forty seventh	Fifty-fifth.	41,190 37
14835	Jan Huss.	Kinzie.	Chicago avenue	19,750 73
14836	Turner avenue.	West Twenty-first	West Twenty-second.	5,177 50
14837	Hamlin avenue.	Kinzie.	Chicago avenue.	25,393 55
14838	Wabash avenue.	Twenty-second	Thirty-fifth	83,245 49
14839	Sixty-first.	Halsted	Center avenue.	25,558 13
14840	Center avenue	Fifty-first.	Fifty-seventh.	83,005 33
14841	Wentworth avenue.	Eighteenth	Twenty-second	10,153 16
14854	Trumbull avenue.	West Kinzie.	West Chicago avenue.	16,379 16



## STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT—CONTINUED.

No. of Ward	NAME OF STREET.	FROM	TO	AMOUNT.
14856	Polk.....	Canal.....	Halsted.....	\$ 12,946 03
14875	Campbell avenue.....	West Twelfth.....	Ogden avenue viaduct.....	4,984 30
14876	Illinois.....	Dearborn avenue.....	St. Clair.....	15,194 43
14878	West Huron.....	North Leavitt.....	Western avenue.....	10,842 87
14879	Indiana avenue.....	Twenty-ninth.....	Thirtieth.....	8,291 59
14880	Alley.....	Thirty-sixth and Thirty-seventh.....	Dearborn and Armour avenue.....	2,242 95
14881	Alleys.....	Block 16, Ashland 2d Addition.....	Ashland 2nd Addition.....	1,248 99
14882	Alleys.....	Wilcox and Monroe.....	Western avenue and Campbell avenue.....	2,838 84
14883	The Bowery.....	Van Buren.....	Congress.....	2,495 51
14899	Sullivan.....	Sedgwick.....	Cleveland avenue.....	1,839 88
14937	Fillmore.....	California avenue.....	Kedzie avenue.....	25,005 77
14939	Wallace.....	Thirty-first.....	Egan avenue.....	1,095 75
14941	Fifty-sixth and Fifty-seventh.....	Halsted.....	Centre avenue.....	41,516 18
14944	West Monroe.....	West Fortieth.....	West Forty-sixth.....	36,676 20
14945	West Monroe.....	Canal.....	Halsted.....	15,851 18
14974	Kinzie.....	La Salle.....	Eastern terminus.....	10,064 32
14977	Mantene court.....	Milwaukee avenue.....	Southern terminus.....	153 88
14978	South Alley.....	Block 2.....	Union Park Addition.....	45 00
14979	Weed court.....	Clybourn avenue.....	Eastern terminus.....	8,774 74
14981	Ann.....	Washington.....	Madison.....	2,514 52
14983	Alley (east and west).....	North of Washington.....	Clinton and Jefferson.....	812 38
14985	Alley.....	Block 10.....	McReynold's Subdivision 6, 39, 14.....	377 82
14986	Alley.....	South $\frac{1}{2}$ Block 21.....	C. T. Subdivision, West $\frac{1}{2}$ , 5, 39, 14.....	2,471 73
14987	Alley.....	South $\frac{1}{2}$ Block 22.....	C. T. Subdivision, West $\frac{1}{2}$ , 5, 39, 14.....	2,522 10
14988	Alleys.....	South Block 1, Block 15.....	C. T. Subdivision, West $\frac{1}{2}$ , 5, 39, 14.....	1,740 98
14989	Alleys.....	South Block 2, Block 16.....	C. T. Subdivision, West $\frac{1}{2}$ , 5, 39, 14.....	8,665 69
14990	Alley.....	West $\frac{1}{2}$ Block 7.....	C. T. Subdivision, West $\frac{1}{2}$ , 5, 39, 14.....	2,277 87
14991	Alleys.....	North $\frac{1}{2}$ , Block 26.....	C. T. Subdivision, West $\frac{1}{2}$ , 5, 39, 14.....	2,450 47
14992	Alleys.....	North $\frac{1}{2}$ , Block 21.....	C. T. Subdivision, West $\frac{1}{2}$ , 5, 39, 14.....	2,534 12
14993	Alleys.....	Noble and Ashland avenue.....	Emma and Augusta.....	4,342 60
14994	Alley.....	Block 2.....	Chatfield's Addition.....	3,020 61
14995	Alleys.....	Block 21.....	Elston Addition.....	2,265 78
14996	Eighteenth.....	Indiana avenue.....	Wabash avenue.....	4,178 13
14997	Alleys.....	Noble and Holt.....	Augusta and Cornelia.....	2,854 40
14998	Alleys.....	Bickerdike and Armour.....	Huron and Superior.....	1,025 89
14999	Alleys.....	North $\frac{1}{2}$ Block 42.....	Ogden's Addition.....	1,074 02

15000	Alleys.	Block 2.	Bickerdike's Addition.	997 24
15001	Alleys.	South $\frac{1}{2}$ Block 42	Ogden's Addition.	2,125 08
15002	Alley.	Block 7.	Bickerdike's Addition	1,015 81
15003	Alley.	Block 10	Bickerdike's Addition.	1,045 68
15004	Alley.	Armour and Ashland avenue.	Superior and Huron.	1,050 14
15005	Alley.	Noble and Bickerdike.	Huron and Superior.	1,027 48
15006	Alley.	Block 9	Bickerdike's Addition.	1,039 86
15008	Alleys.	East $\frac{1}{2}$ Block 28.	C. T. Subdivision, West $\frac{1}{2}$ , 5, 39, 14.	2,450 44
15009	Alleys.	South blocks 3 and 4, block 29.	C. T. Subdivision, West $\frac{1}{2}$ , 5, 39, 14.	1,674 17
15010	Alleys.	North $\frac{1}{2}$ Block 23.	C. T. Subdivision, West $\frac{1}{2}$ , 5, 39, 14.	1,931 99
15011	Alleys.	South $\frac{1}{2}$ Block 1.	7, 39, 14.	2,307 06
15012	Alleys.	Block 1.	Chatfield's Addition.	4,242 47
15013	Alleys.	Block 26.	Ogden's Addition.	2,538 56
15014	Alleys.	South $\frac{1}{2}$ Block 16.	C. T. Subn., Section 7, 39, 14.	1,309 52
15015	Alleys.	North $\frac{1}{2}$ Block 16.	C. T. Subn., Section 7, 39, 14.	2,260 68
15016	Alleys.	Monroe and Adams	Canal and Clinton.	1,833 99
15017	Alley.	Peoria and Green.	Adams and Jackson.	1,881 02
15018	Alley.	Green and Peoria.	Jackson and Van Buren.	1,361 67
15019	Alley.	Morgan and Sangamon.	Monroe and Adams.	1,125 14
15020	Alley.	Block 29.	Elston Addition.	2,396 54
15021	Alley.	West part Block 27.	Elston Addition.	902 36
15022	Alley.	Block 31.	Elston Addition	2,631 22
15023	Alley.	West part Block 24.	Elston Addition	1,663 86
15027	Alley.	Block 8	Elston Addition	1,140 12
15030	Alley.	Lake avenue and Park avenue.	Lincoln and Robey.	1,777 55
15038	Morgan.	Sixty-third.	Sixty-fifth.	1,777 55
15094	Thirty-eighth.	Laurel.	Halsted.	6,895 64
15105	Carroll avenue.	Kedzie avenue.	Halsted.	14,490 86
15107	Auburn.	Thirty-first.	950 feet west.	7,949 08
15108	Osgood.	Clybourn avenue.	Douglas avenue.	27,475 78
15109	Alley (east and west).	North Franklin to north and south alley	Fullerton avenue.	26,186 65
15110	Walash avenue.	Twenty-second.	Sigel and Schiller.	788 68
15113	Thirty-seventh.	Halsted.	Thirty-fifth	83,573 42
15114	Larrabee	Fullerton avenue.	Laurel.	13,754 16
15121	May.	Madison.	Frederick.	2,144 18
15122	Melrose.	Western avenue.	Washington boulevard.	19,895 70
15124	Indiana avenue.	Forty-third	Robey.	2,539 18
15128	Polk	Campbell avenue.	Fifty-first.	43,978 79
15138	Rockwell.	West Twelfth.	Kedzie avenue.	88,069 51
15134	Lowie avenue, etc., etc.	Butler, etc., etc.	West Twenty-second	74,168 15
15136	Sixty-third	Wallace.	Parnell avenue, etc., etc.	220,887 20
15138	Elston avenue.	Diversey avenue	Halsted.	6,680 30
			Belmont avenue	39,467 16

## STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT—CONTINUED.

No. of Warrant	NAME OF STREET.	FROM	TO	AMOUNT.
15139	Dearborn avenue	Chicago avenue.	Ohio	\$ 1,546 30
15147	Alley	East ½ Block 7	C. T. Subn., West ½ 5, 30, 14.	2,276 69
15148	Alleys.	North ½ Block 27.	C. T. Subn., West ½ 5, 30, 14.	2,198 44
15149	Alleys.	Block 41.	Ogden's Addition.	2,416 21
15150	Lawndale avenue	Thirty-first.	South branch Chicago river.	13,004 85
15151	Alley	East part Block 26.	Elston Addition	887 17
15152	Alleys	Block 9.	Elston Addition	2,393 91
15156	Blair	Canalport avenue	West Twentieth	4,517 31
15161	Alleys	Block 7.	Elston Addition	1,520 43
15162	Alley	Morgan and Carpenter.	Randolph and Lake.	1,494 60
15168	Alley	Boston avenue and Van Buren.	Desplaines and Halsted.	804 12
15164	Alley	Indiana and Ohio.	Desplaines and Union.	1,386 94
15165	Alley	Peoria and Sangamon	Madison and Monroe.	196 76
15166	Myrtle	Birch and Wabash avenue.	Taylor.	2,753 30
15167	Alley	Wabash and Michigan avenues.	Thirty-seventh and 37th court.	753 30
15168	Alleys	Green and Peoria.	Randolph and Lake.	1,217 21
15169	Alleys	Clinton and Jefferson.	Randolph and Lake.	1,967 91
15176	Rush	Ohio.	Erie	3,863 31
15178	Alley	Wood and Lincoln	Carroll avenue and Fulton.	1,860 40
15181	Alley	Twenty-sixth and Thirty-first.	Fifth avenue and Portland avenue.	9,182 04
15182	Alley	North ½ block 41	Court Subdivision, 7, 30, 14.	1,165 07
15183	Armour avenue.	Forty-seventh.	Fifty-fifth.	43,224 67
15184	West Congress	Sacramento avenue.	Homan avenue.	25,519 27
15213	Janssen avenue.	Roscoe.	Grace.	15,183 54
15216	Bosworth avenue	Grace.	Roscoe	16,217 65
15219	Southport avenue.	Graceland avenue.	Belmont avenue.	89,246 75
15244	Indiana avenue.	Twenty-ninth	Thirtieth.	4,509 80
15248	Lincoln.	W. Nineteenth	Blue Island avenue	87,079 83
15257	Cottage Grove avenue.	Forty-fourth.	Fifty-ninth.	53,802 40
15268	Webster avenue.	Dominick.	Chicago river.	2,771 28
15260	West Twenty-sixth.	Hamlin avenue.	Crawford avenue.	12,188 70
15261	Alley.	West ½ Block 86.	Sheffield's Addition.	4,256 22
15262	Alley.	Paulina and Wood	Huron and Superior	2,213 77
15263	Alleys.	Milwaukee and Elk Grove avenues.	Wood and Girard.	2,548 73
15264	Cornelia	Wood	Southport avenue.	15,670 63
15265	Prindville.	Milwaukee avenue	State.	3,953 64

15268	Augusta	California avenue	Grand avenue	23,776 82
15268	Flournoy	Francisco	Albany avenue	11,560 78
15269	Alleys	Twelfth and Bunker	Desplaines and Halsted	3,100 17
15270	Blom	Thirty-fourth	Thirty-Eighth	26,702 65
15271	Alleys	Block 17	Ashland Second Addition	1,151 76
15272	West Harrison	California avenue	Kedzie avenue	30,411 30
15273	Elston avenue	Snow	Belmont avenue	71,967 27
15282	West Van Buren	Kedzie avenue	Central Park avenue	23,371 91
15283	Alley	Jackson and Van Buren	Clinton and Jefferson	1,255 87
15284	Ward	Clybourn avenue	Fullerton avenue	14,489 02
15285	Town court	North avenue	Southern terminus	3,585 12
15286	Homer	Robey	Oakley avenue	19,448 28
15287	Alleys	Block 3	Ashland Second Addition	976 81
15288	Alley	Block 25 and S. $\frac{1}{4}$ Block 28	Court Subdivision, W. $\frac{1}{2}$ S. 39, 14	3,399 72
15290	Alleys	Garfield avenue and Webster avenue	Sheffield avenue and Bissell	2,401 33
15303	Alleys	Garfield avenue and Webster avenue	Dayton and Halsted	2,360 23
15304	Alleys	Clay and Centre	Dayton and Fremont	3,188 97
15305	Alleys	Garfield avenue and Webster avenue	Dayton and Fremont	2,284 22
15306	Alleys	Garfield avenue and Webster avenue	Sheffield avenue and Bissell	2,288 23
15307	Alleys	Tremont and Bissell	Center and Garfield avenue	901 71
15308	Alleys	Garfield avenue and Centre	Dayton and Fremont	2,342 66
15309	Alleys	Garfield avenue and Centre	Dayton and Halsted	2,333 26
15310	Alley	Fremont and Bissell	Garfield avenue and Webster avenue	878 34
15311	Lewis	Wrightwood avenue	Diversey	7,824 88
15315	Alley	Blackhawk and Division	Ashland avenue and Dixon	7,804 61
15326	Alley	Twenty-third and Twenty-fourth	Cottage Grove ave. and Calumet ave.	1,253 36
15327	Alley	Block 1, Johnston's subdivision, E. $\frac{1}{2}$	S. E. $\frac{1}{4}$ 6, 39, 14	855 29
15328	Alleys	Western avenue and Grant place	Larrabee and Cleveland	2,920 56
15329	Alley	Paulina and Wood	Superior and Chicago avenue	2,362 62
15360	Washtenaw avenue	Jackson	Van Buren	4,587 13
15361	Western avenue	Fullerton avenue	Belmont avenue	46,580 67
15362	La Salle	Garfield boulevard	Cloud court	18,576 10
15363	Hoyne avenue	Armitage avenue	Wabansia avenue	18,133 36
15364	Alleys	Webster avenue and Garfield avenue	Burling and Pearl	1,609 22
15368	Fifth avenue	Van Buren	Harrison	7,455 69
15369	Sherman	Wilson	Forty-sixth	9,557 26
15370	West North avenue	Tinkham avenue	Grand avenue	57,578 85
15371	Diller	Fulton	Kinzie	6,120 06
15372	Stave	California avenue	Prindville	2,749 95
15373	Alley	N. $\frac{1}{2}$ block Twenty-seventh court, Sub	divisions 7, 39, 14	2,197 42
15387	Harvard	Campbell avenue	California avenue	17,014 98
15388	Alley	Thirty-first to Thirty-third	Fifth avenue and Wentworth avenue	4,699 44

## STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT—CONTINUED.

No. of Warr't	NAME OF STREET.	FROM	TO	AMOUNT.
15390	Alley.....	Iowa and Augusta .....	Wood and Newton.....	\$ 2,377 16
15396	Lubeck.....	Robey .....	Western avenue.....	24,677 87
15397	Sholto.....	Eleventh .....	Taylor.....	2,886 86
15398	Shurtliff (Atlantic)	Root.....	Forty-third .....	7,540 54
15399	Union avenue.....	Sixty-third .....	Sixty-seventh .....	17,822 48
15400	Alley.....	Twenty-fifth and Twenty-sixth.....	State and Wabash avenue.....	2,639 47
15401	Alley.....	Centre avenue and Lytle.....	Taylor and Arthington.....	1,460 46
15402	Alleys.....	Ashland avenue and Mantene court.....	Milwaukee avenue and Division.....	4,348 72
15428	Alley.....	Wabash avenue and Michigan avenue.....	Twenty-third to 200 ft. North.....	827 19
15463	Alley.....	Adams and Wilcox.....	Campbell avenue and Rockwell.....	2,027 06
15464	Talman avenue.....	Hirsch .....	North avenue.....	10,401 99
15469	Alley.....	Silver and Gold.....	Harrison and Gurley .....	1,197 77
15470	Alleys.....	Union Park place and St. John's place.....	Fulton and Carroll avenue.....	583 19
15471	Alley.....	West Madison and Warren avenue.....	Ogden avenue and Ashland avenue.....	780 69
15472	Alleys.....	Van Buren and Congress.....	Ashland avenue and Lallin.....	2,941 46
15473	Alley.....	West Madison and West Monroe.....	Loomis and Throop.....	2,202 71
15474	Alleys.....	Sheldon and Ada.....	West Washington and West Madison.....	9,241 78
15475	Alley.....	Carroll avenue and Fulton.....	Ada and Elizabeth.....	1,543 13
15476	Alley (east and west) .....	Fulton and Lake.....	Ada and Elizabeth.....	1,523 43
15477	Alley.....	Macalister place and Vernon Park avenue.....	Lytle and Sibley.....	1,686 27
15478	Alley.....	Harrison and Sebor.....	Clinton and Jefferson.....	922 98
15496	West Monroe.....	Halsted .....	Centre avenue.....	18,893 07
15497	West Twenty-sixth.....	Western avenue.....	Sacramento avenue.....	42,065 92
15498	Armitage avenue.....	Kedzie avenue.....	Columbia avenue.....	80,377 20
15500	Oakley avenue.....	West Eighteenth .....	Blue Island avenue.....	71,350 45
15501	School.....	Halsted .....	Evanston avenue.....	9,109 84
15502	Wabash avenue.....	Thirty-ninth.....	Fifty-fifth.....	127,073 11
15505	Roscoe.....	Robey.....	Sheffield avenue.....	47,437 52
15508	Mather.....	Ogden avenue.....	Wood .....	2,198 13
15509	Graceland avenue.....	N. Clark.....	Lincoln avenue.....	25,884 65
15512	Butler.....	Thirty-fifth .....	Thirty-ninth.....	21,346 72
15516	Morgan.....	Eighteenth .....	Twenty-second .....	5,100 34
15517	Sixtieth.....	Halsted .....	Centre avenue.....	25,752 85
15522	Jefferson.....	Van Buren.....	Madison.....	15,450 58
15537	Alleys.....	Franklin and Wells.....	Michigan and Kinzie.....	1,286 99
15538	Alley.....	Clay and Centre.....	Fremont and Bissell.....	2,802 67

15598	Alleys	Michigan and Illinois	Wells and Franklin	1,649 17
15540	Alley	Clay and Center	Sheffield avenue and Bissell	2,747 02
15643	Alley	Scott and Goethe	State and Astor	1,198 65
15644	Alley	Union and Emerald avenue	Forty-sixth and Forty-seventh	2,064 79
15545	Alley	Forty-third and Gordon	Emerald avenue and Union	1,058 18
15546	Alley	Gordon and Layton	Emerald avenue and Union	1,177 01
15647	Alley	Forty-fifth and Forty-sixth	Emerald avenue and Union	1,859 14
15548	Alley	Forty-first and Layton	Emerald avenue and Union	859 95
15549	Alley	Forty-first and Root	Emerald avenue and Halsted	1,477 28
15560	Alley	Forty-second and Root	Emerald avenue and Halsted	1,802 68
15561	School	Desplaines	404 feet West	1,317 64
15553	Alleys	Samuel and Wood	Chicago avenue and Clarinda	1,809 37
15553	Alley	Division and Goethe	Clark and La Salle	2,210 07
15564	Alley	Layton and Forty-fifth	Halsted and Emerald avenue	979 04
15555	Alley	Forty-third and Gordon	Halsted and Emerald avenue	1,278 28
15556	Alley	Gordon and Layton	Emerald avenue and Halsted	1,280 56
15557	Alley	Clarinda and Cornelia	Samuel and Wood	974 74
15558	Alleys	Rumsey and Paulina	Clarinda and Chicago avenue	1,417 68
15559	Alley	Clarinda and Cornelia	Ashland avenue and Rumsey	977 30
15560	Marshall	Forty-third	Forty-fourth	5,444 29
15564	Alley	Cornelia and Augusta	Samuel and Wood	1,874 87
15565	Alley	Forty-fifth and Forty-sixth	Halsted and Emerald avenue	1,847 80
15567	Alleys	Division and Crystal	Robey and Hoyne avenue	2,215 78
15568	Alley	Forty-sixth and Forty-seventh	Emerald avenue and Halsted	1,988 39
15569	Alley	Francisco and Sacramento avenue	Warren avenue and Washington blvd	1,801 94
15570	Alley	California avenue and Francisco avenue	Warren avenue and Washington blvd	1,834 66
15571	Alley	Warren avenue and Washington	Albany avenue and Kedzie avenue	1,858 65
15572	Alley	Hoyne avenue and Leavitt	Emerson avenue and West Indiana	1,738 49
15573	Alley	Van Buren and 100 feet north	Clark and Custom House place	510 97
15582	Courtyard	Leavitt	Oakley avenue	4,438 35
15583	Alley	Jackson and Adams	Seelye avenue and Hoyne avenue	1,086 76
15584	Alley	Larrabee and Mohawk	North avenue and Blackhawk	2,674 69
15585	Alley	Twenty-ninth and Thirtieth	Michigan avenue and Wabash avenue	3,240 40
15586	Alleys	Morgan and Blue Island avenue	Gurley and Hope	1,629 95
15587	Alleys	Loomis and Lafin	Jackson and Van Buren	8,504 44
15588	Alleys	Sheffield avenue and Osgood	Garfield avenue and Webster avenue	2,466 01
15589	Alley	Pine and St. Clair	Ohio and Ontario	1,516 69
15590	Alley	Wood and Lincoln	West Erie and West Huron	1,996 23
15591	Alley	Elm and Hill	La Salle avenue and Wells	1,148 43
15592	Cass	Kinzle	Chicago avenue	14,715 27
15598	Alleys	Garfield avenue and Center	Seminary avenue and Clifton avenue	2,477 93
15594	Belmont avenue	Western avenue	Milwaukee avenue	68,636 45

## STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT—CONTINUED.

No. of Warr't	NAME OF STREET.	FROM	TO	AMOUNT.
15603	West Erie.	Western avenue.	Campbell avenue.	\$ 5,990 15
15604	Alley.	Fifty-first to 609 feet north.	State and Dearborn.	2,130 62
15605	Melrose.	Robey.	Racine avenue.	82,236 88
15606	Alleys.	Congress and Harrison.	Paulina and Marshfield avenue.	1,073 60
15607	Alleys.	Loomis and Laffin.	Adams and Jackson.	3,634 20
15608	Alleys.	Monroe and Adams.	Ashland avenue and Laffin.	2,704 94
15609	Alleys.	Laffin and Loomis.	Congress and Harrison.	3,032 55
15610	Alley.	Ashland avenue and Paulina.	Carroll avenue and Fulton.	1,880 41
15611	Alleys.	Paulina and Monroe.	Ogden avenue.	906 47
15612	Alleys.	Sheldon and Ada.	Fulton and West Lake.	2,271 37
15613	Alleys.	Halsted and Blue Island avenue.	Forquer and West Taylor.	4,054 71
15614	Alleys.	Taylor and West Twelfth.	Marshfield avenue and Ashland blvd.	2,500 92
15615	Alley.	Block 3.	Magee and High's Addition.	1,398 04
15616	Alleys.	Carroll avenue and Fulton.	Ann and May.	963 53
15617	Alleys.	Throop and Centre avenue.	Jackson and Van Buren.	5,037 44
15618	Alleys.	Randolph and Washington.	Willard place and Ann.	1,227 99
15619	Alleys.	Fulton and Lake.	May and Ann.	2,001 99
15620	Alley.	Racine avenue and Seminary avenue.	Wrightwood avenue and Lill avenue.	1,946 07
15621	Alley (north and south).	West ½ Block 21.	C. T. Sub., 33, 40, 14.	2,190 96
15622	Alleys.	Locust and Chicago avenue.	Townsend and Sedgwick.	4,476 78
15623	Alley.	Locust and Oak.	Townsend and Sedgwick.	2,433 48
15624	Alley.	Oak and Hobbie.	Larrabee and Gault place.	1,265 89
15627	Alleys.	Clifton avenue and Racine avenue.	Garfield avenue and Webster avenue.	2,471 03
15628	Alleys.	Clifton avenue and Racine avenue.	Center and Garfield avenue.	2,450 77
15637	Ashland avenue.	Ohio.	Milwaukee avenue.	15,403 86
15638	Eldridge court.	State.	Michigan avenue.	9,264 08
15639	Prairie avenue.	Twenty-fifth.	Twenty-sixth.	7,279 86
15663	Lincoln avenue.	Centre.	Fullerton avenue.	14,590 79
15672	Blucher.	Canal.	Halsted.	11,105 91
15674	Otto.	Wellington.	Noble avenue.	4,131 62
15675	Clarkson avenue.	Clark.	Halsted.	6,121 92
15676	Maplewood avenue.	Palmer place.	Bloomingtondale road.	22,477 78
15679	Alleys.	Bloomingtondale road.	North avenue.	9,980 78
15680	Alleys.	Augusta and Thomas.	Glenwood avenue and Robey.	2,595 01
15681	Alley.	Iowa and Augusta.	Glenwood avenue and Robey.	1,818 80
15682	Alleys.	Thomas and Division.	Glenwood avenue and Robey.	2,453 72

15683	Alleys	Chicago avenue and Iowa avenue.	Glenwood and Robey.	2,452 73
15684	Bishop	Forty seventh.	Forty-ninth.	10,573 64
15685	Rebecca	Rockwell.	California avenue.	18,781 38
15686	McMullen court.	May.	Centre avenue.	2,278 68
15690	Layton	Halsted.	Union avenue.	2,923 66
15691	Alley.	Hoyne avenue and Leavitt.	Warren avenue and Madison avenue.	1,859 84
15692	Forty second	Halsted.	Wallace avenue.	9,548 08
15693	Alley.	Running north from Thirty-sixth.	Ellis avenue and Lake avenue.	688 30
15694	Sheridan	North avenue.	Bloomington road.	11,294 79
15695	Townsend	Erie.	Chicago avenue.	7,185 15
15696	Forty-sixth.	State.	Grand boulevard.	16,344 06
15697	Fifty-third	State.	South Park avenue.	19,246 30
15746	Alleys	East ½ Block 5.	C. T. Subdivision West ½ 5, 39, 14.	3,190 00
15747	Alley.	West ½ Block 5.	C. T. Subdivision West ½ 5, 39, 14.	2,887 68
15748	Alley.	Blackhawk and Blanche.	Dickson and Holt.	3,079 16
15749	Alleys	Division and Blackhawk.	Dickson and Holt.	6,944 76
15750	Nebraska	Bloomington road.	Palmer place.	18,686 80
15751	Alley.	Perry and Ashland avenue.	Fullerton and Montana.	1,986 58
15752	Alley.	Morgan and Sangamon.	Chicago avenue and Superior	1,243 27
15753	Alleys	Prairie avenue and Forrest.	Thirty-fifth and Thirty-seventh.	4,594 16
15754	Alley.	St. John's place and Ashland avenue.	Carroll avenue and Fulton.	1,047 26
15755	Alley.	Paulina and Marshfield avenue.	Jackson and Van Buren.	1,886 71
15756	Alleys	Fulton and Lake	Ashland avenue and St. John's place.	2,121 75
15757	Alleys.	Paulina and Ashland avenue.	Fulton and Walnut.	2,078 86
15758	Alley (north and south).	Maxwell and Liberty	West of Jefferson	891 52
15759	Alleys	Monroe and Adams.	Leavitt and Irving avenue.	1,238 46
15760	Alleys	Adams and Wilcox.	Oakley avenue and Western avenue.	1,200 51
15761	Alleys	Monroe and Adams	Oakley avenue and Irving avenue.	1,600 84
15762	Alleys	Jackson and Van Buren.	Oakley avenue and Irving avenue.	2,247 67
15763	Alleys	Harrison and Van Buren	Western avenue and Claremont avenue.	2,947 14
15764	Alley.	Jackson and Adams	Irving avenue and Leavitt.	1,288 13
15765	Alley.	Irving avenue and Oakley avenue.	Adams and Jackson.	810 98
15766	Alley.	Oak and Chicago avenue	Milton and Wesson.	4,419 63
15767	Alleys	Jackson and Van Buren.	Irving avenue and Leavitt.	2,137 26
15768	Alley (north and south).	Ontario and Erie	Wells and Franklin.	679 50
15769	Alley	Huron and Superior	Wells and Franklin	682 99
15770	Alley (north and south).	Erie and Huron.	Wells and Franklin.	685 60
15771	Alley (north and south).	Illinois and Indiana.	Wells and Franklin.	710 80
15772	Alley (north and south).	Ohio and Ontario.	Wells and Franklin.	702 04
15774	Michigan.	Kingsbury	Franklin.	9,461 45
15801	Homan avenue	Madison	Colorado avenue.	17,188 14
15802	Congress.	State.	Michigan avenue.	6,810 67



## STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT—CONTINUED.

No. of Warr'nt	NAME OF STREET.	FROM	TO	AMOUNT.
15804	Forty-seventh	Cottage Grove avenue	State	\$87,215 64
15805	Clifton avenue	Wellington avenue	Roscoe	17,098 10
15806	Alley	Carpenter and Curtis	Randolph and Washington	542 10
15807	Alleys	May and Ann	Washington and Randolph	2,041 14
15809	Thirty-first	Cottage Grove avenue	State	31,868 14
15813	Hoyne avenue	Asylum place	Fullerton avenue	1,489 63
15814	Linden avenue	Fullerton avenue	Humboldt boulevard	11,882 83
15816	Fulton	Homan avenue	Central Park avenue	900 00
15817	Walnut	Central Park avenue	Homan	237 45
15821	Douglas avenue	Archer avenue	Western avenue	876 47
15823	West Polk	Canal	Halsted	10,155 03
15826	Troy	Douglas Park boulevard	West Twelfth	17,173 81
15828	Alley	Desplaines and Halsted	Taylor and Forquer	2,366 58
15845	Alley (north and south)	DeKoven and West Taylor	Desplaines and Halsted	601 88
15847	Alley	Lincoln and Robey	Park avenue and Washington	1,861 30
15857	Alley	Thirty-seventh and Thirty-eighth	Armour avenue and Dearborn	2,047 23
15858	Alley	Forty-second and Forty-third	Emerald avenue and Halsted	1,338 15
15859	Alley	Hirsch and LeMoine	Dania and Campbell avenue	1,805 17
15861	Forty-second	Wallace	School	15,724 76
15863	May	Diversey	Wrightwood avenue	9,456 28
15869	Alley	Lincoln and Wood	Walnut and Lake	1,683 93
15881	Mitchell avenue	West North avenue	Bloomington road	9,722 52
15882	Alley	York and Polk	Marshfield avenue and Ashland avenue	1,293 65
15891	Sawyer avenue	Douglas Park boulevard	Twelfth	7,333 24
15892	Alleys	Pratt and Milwaukee avenue	Sangamon	3,269 43
15893	Holt	North avenue	Wabasha	2,637 61
15894	Johnston	Twenty-first	Twenty-second	945 36
15895	First alley west of	Drexel boulevard	Forty-second and Forty-third	3,687 68
15896	Alleys	Rhodes avenue and Vincennes avenue	Thirty-fifth and Bryant avenue	3,139 65
15897	Alleys	Thirty-fifth and Thirty-seventh	Vernon avenue and Grand avenue	2,408 71
15898	Alleys	Thirty-fifth and University place	Rhodes avenue and Cottage Grove ave.	1,718 65
15899	Alleys	Thirty-third and College place	Cottage Grove avenue and Rhodes ave.	539 99
15900	Alley	Clark and Dearborn avenue	Michigan and Kinzie	980 05
15901	Alleys	Cass and Rush	Chicago avenue and Superior	2,421 15
15902	Alley	Hubbard court and Peck court	Michigan avenue and Wabash avenue	179 03
15903	Alley	Cass and State	Superior and Huron	

15904	Alley (north and south)	Erie and Huron	Pine and St. Clair	598 07
15909	East side of Cottage Grove avenue	Fifty-first	Fifty-ninth	19,868 31
15930	Alleys	Webster avenue and Grant place	Cleveland avenue and Sedgwick	1,883 89
15935	Alleys	Jefferson and Canal	Barbour and Henry	2,119 84
15946	Turnbull avenue	Colorado avenue	Harrison	7,854 80
15937	Alleys	Western avenue and Stanley terrace	Owaco and West Jackson	1,037 94
15938	Alleys	West Madison and West Monroe	Western avenue and Oakley avenue	3,184 23
15949	Alleys	Brigham and McReynolds	Wood and Paulina	2,610 29
15975	Alleys	Block 91, Brand's addition	May	1,500 27
15986	West Kenzie	Jefferson	C., R. I. & P. Ry.	6,812 33
15988	Thirty-second	State	Forty-first	5,211 80
15990	Ellis avenue	Thirty-ninth	Michigan avenue	16,793 14
15992	Washington	Wabash avenue	Fullerton avenue	7,707 12
15993	Osgood	Centre	Indiana and Sennott place	17,730 31
15995	Alley	Centre avenue and Elizabeth	Douglas Park boulevard	1,824 33
15996	Sawyer avenue	West Twelfth	California avenue	8,046 44
16006	Howard	Campbell avenue	Wrightwood avenue	17,014 93
16034	Paulina	Clybourn avenue	West Congress and West Harrison	13,502 05
16039	Alleys	Union place and Cicero court	May and Centre avenue	1,027 89
16080	Alleys	Harrison and Gurley	West Madison and West Monroe	563 38
16081	Alleys	Western avenue and Campbell avenue	West Congress and West Harrison	1,700 11
16082	Alleys	Hermitage avenue and Wood	Paulina and Hermitage avenue	413 05
16083	Alleys	Polk and Taylor	West Lake and West Washington	798 53
16084	Alleys	Clarkson court and Francisco	West Congress and West Harrison	2,085 14
16086	Alleys	Campbell avenue and Union place	West Madison and West Monroe	1,461 31
16087	Alley	Campbell avenue and Depot	West Monroe and West Wilcox	1,011 76
16088	Alley	Campbell avenue and Rockwell avenue	West Jackson and West Van Buren	1,372 83
16089	Alley	Stanley terrace and Campbell avenue	Wood and Hermitage avenue	1,096 70
16090	Alley	Polk and Taylor	Francisco and Sacramento avenue	1,945 91
16091	Alley	West Lake and West Washington	Warren avenue and West Madison	1,691 04
16092	Alley	California avenue and Francisco	Ohio and Indiana	1,446 75
16093	Alleys	Pine and Rush	Wendell and Oak	556 97
16094	Alleys	LaSalle avenue and Wells	Locust and Chestnut	1,108 11
16095	Alleys	LaSalle avenue and Wells	Elm and Maple	517 72
16096	Alleys	State and Dearborn avenue	State and Dearborn avenue	1,941 25
16097	Alleys	Pearson and Chicago avenue	State and 101st	1,011 56
16098	Alleys	Pine and Rush	Walton place and Delaware place	1,014 22
16099	Alleys	LaSalle avenue and Wells	Superior and Huron	931 99
16100	Alleys	State and Dearborn avenue	Superior and Huron	1,028 00
16101	Alleys	Pine and Rush	Ontario and Ohio	375 29
16102	Alley	Seneca and St. Clair	Indiana and Illinois	774 46

## STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT—CONTINUED.

No. of Warrant	NAME OF STREET.	FROM	TO	AMOUNT.
16103	Alleys.....	East of St. Clair.....	Erie and Ontario.....	\$ 907 06
16104	Alley.....	St. Clair and Pine.....	Erie and Ontario.....	767 55
16105	Alley.....	Shober and Hirsch.....	Leavitt and Potomac avenue.....	1,430 83
16114	Alley.....	Twenty-fifth and Twenty-sixth.....	Michigan avenue and Indiana avenue	151 01
16116	Frank.....	Diversey avenue.....	Surf.....	3,556 16
19117	Alley.....	Twenty-fifth and Twenty-sixth.....	Indiana avenue and Prairie avenue.....	229 36
16119	Myrtle.....	Fullerton avenue.....	Humboldt boulevard.....	11,440 41
16120	Fairview avenue.....	Fullerton avenue.....	Humboldt boulevard.....	9,982 21
16112	Desplaines.....	Taylor.....	Polk.....	5,397 47
16123	Dearborn.....	Forty-seventh.....	Garfield boulevard.....	44,310 84
16124	Sixty-third.....	Wallace.....	Stewart avenue.....	7,016 60
16125	Erie.....	State.....	St. Clair.....	10,733 53
16126	Indiana.....	North branch Chicago River.....	Clark.....	27,246 66
16128	Oakdale avenue.....	Sheffield avenue.....	Racine avenue.....	8,961 72
16134	Sixty-fifth court.....	Stewart avenue.....	Wright.....	3,254 08
16139	Centre avenue.....	West Madison.....	West Adams.....	5,840 74
16141	West Kinzie.....	Jefferson.....	May.....	4,940 69
16142	Loomis.....	West Van Buren.....	West Madison.....	13,954 45
16144	Alley.....	Monroe and Adams.....	Clinton and Jefferson.....	688 48
16147	Lincoln.....	West Twelfth.....	West Fifteenth.....	300 00
16220	John place.....	Halsted.....	C., B. & Q. R. R.....	3,111 17
16223	Alley.....	Irving avenue and Leavitt.....	West Van Buren and West Harrison.....	1,998 35
16223	Alley.....	Campbell avenue and Rockwell.....	West Adams and West Jackson.....	1,320 08
16224	Alleys.....	Oakley avenue and Irving avenue.....	Harrison and Van Buren.....	2,538 96
16225	Alley.....	Blanch and Blackhawk.....	Ashland avenue and Dickson.....	1,558 93
16226	Alley.....	York and Polk.....	Wood and Heritage avenue.....	1,073 50
16237	Alleys.....	Western avenue and Campbell avenue.....	Lexington and West Polk.....	1,987 97
16238	Alleys.....	Western avenue and Campbell avenue.....	Flournoy and Lexington.....	1,064 12
16239	Alley.....	York and West Polk.....	Paulina and Heritage avenue.....	898 58
16230	Alley.....	Thirty-third to Thirty-fifth.....	Indiana avenue and Prairie avenue.....	3,505 34
16231	Alley.....	Thirty-seventh and Thirty-eighth.....	Forest avenue and Calumet avenue.....	1,315 51
16232	Alley.....	Pine and Rush.....	Illinois and Michigan.....	770 63
16233	Alley.....	St. Clair and E. terminus.....	Huron and Erie.....	1,987 27
16234	Alley.....	Thirty-seventh and Thirty-eighth.....	Forest avenue and Prairie avenue.....	1,343 08
16235	Alley.....	Burton place and Schiller.....	North Clark and Dearborn avenue.....	1,443 88
16236	Alley.....	Oak and Hobbie.....	Milton avenue and Wesson.....	782 94

16287	Alley.....	Robey and Hoyne avenue.....	Indiana and Emerson avenue.....	1,418 82
16288	Alley.....	Hoyne avenue and Leavitt.....	West Huron and West Superior.....	1,532 78
16289	Alleys.....	Fulton and West Lake.....	Jefferson and Clinton.....	1,207 78
16240	Schick place.....	Clybourn avenue.....	Cleveland avenue.....	690 17
16375	Alley.....	Lincoln and Robey.....	Carroll avenue and Fulton.....	1,298 36
16376	Alley.....	Lincoln and Wood.....	Madison and Warren avenue.....	1,279 50
16377	Alley.....	Leavitt and Oakley.....	Washington and Warren avenue.....	1,243 84
16378	Alley.....	Robey and Hoyne avenue.....	Warren avenue and Madison.....	1,275 19
16379	Alley.....	Wood and Lincoln.....	Indiana and Emerson avenue.....	1,294 30
16380	Alley.....	Paulina and Page.....	West Lake and Park avenue.....	787 78
16381	Alley.....	Page and Wood.....	West Lake and Park avenue.....	751 07
16382	Alley.....	Paulina and Page.....	Park avenue and Washington boulevard.....	745 42
16435	Alley.....	Lincoln and Robey.....	Fulton and Walnut.....	1,476 13
16426	Alley.....	Hoyne avenue and Leavitt.....	Carroll avenue and Fulton.....	1,605 68
16437	Alley.....	Spaulding avenue and Homan avenue.....	Adams, Colorado avenue and Jackson.....	1,582 60
16438	Alleys.....	Hoyne avenue and Leavitt.....	West Monroe and West Madison.....	2,598 68
16439	School.....	Lincoln avenue.....	Wood.....	14,110 00
16505	Alley.....	Forty-seventh and Forty-eighth.....	Ashland avenue and Justine.....	1,737 67
16506	Alleys.....	Washtenaw ave. and California ave.....	West Polk and Harvard.....	1,576 16
16507	Alleys.....	Polk and Lexington.....	California ave and Washtenaw ave.....	1,576 60
16508	Alleys.....	Western avenue and Campbell avenue.....	West Harrison and Flournoy.....	1,603 44
16509	Alley.....	Forty-fifth and Forty-sixth.....	Sherman and Union.....	1,816 95
16510	Alleys.....	Thirtieth and Thirty-first.....	La Salle and Armour avenue.....	1,171 63
16511	Alley.....	Twenty-seventh and Spring.....	Armour avenue and Dearborn.....	557 81
16512	Alley.....	Twenty-ninth and Thirtieth.....	Lake, Park ave. and Cottage Grove ave.....	1,674 22
16513	Alley.....	Paulina and Wood.....	Carroll avenue and Fulton.....	1,298 54
16523	Chicago avenue.....	California avenue.....	Crawford avenue.....	84,195 52
16524	West Huron.....	Halsted.....	Centre avenue.....	16,115 85
16526	Fifty-third.....	State.....	School.....	16,889 99
16530	Alleys.....	Wisconsin and Menomonee.....	Sedgwick and Hammond.....	2,925 44
16582	West Harrison.....	Kedzie avenue.....	Crawford avenue.....	41,727 31
16533	Thirty-eighth court.....	Halsted.....	Laurel.....	11,462 29
16534	Alley.....	Monroe and Adams.....	Wabash avenue and Michigan avenue.....	3,080 63
16535	Alleys.....	Thirty-third and Thirty-fourth.....	Vernon avenue and Rhodes avenue.....	2,095 58
16536	Breslau.....	Hamburg.....	Ems.....	4,547 89
16537	Alleys.....	Ashland avenue and West Congress.....	Lafin and West Harrison.....	2,857 60
16538	Alleys.....	West Lake and West Randolph.....	Sheldon and Ada.....	865 77
16540	Perry.....	Graceland avenue.....	Belmont avenue.....	33,666 87
16546	Oak place.....	School.....	Belmont avenue.....	5,051 63
16547	Alleys.....	Adams and Jackson.....	West Van Buren and Oakley avenue.....	2,020 88
16548	Alleys.....	West Van Buren and West Congress.....	Cicero court and Campbell avenue.....	2,817 98
16549	Alleys.....	Madison and Monroe.....	Leavitt and Oakley avenue.....	2,983 75

## STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT.—CONTINUED.

No. of Warr't	NAME OF STREET.	FROM	TO	AMOUNT.
16550	Alleys.....	Van Buren and California avenue.....	Congress and Washtenaw avenue.....	\$ 3,657 61
16561	Fifty-first.....	Wallace.....	Ashland avenue.....	58,277 85
16562	Alleys.....	Peoria and Sangamon.....	Madison and Washington.....	2,250 66
16571	Alleys.....	Washington boulevard and Warren ave.....	Western avenue and Leavitt.....	3,880 00
16572	Parnell avenue.....	Thirty-seventh.....	Thirty-ninth.....	13,231 34
16574	Thirteenth.....	State.....	East terminus.....	6,005 39
16575	Forty-fourth.....	Wentworth avenue.....	State.....	9,976 85
16576	Alley north and south.....	Monroe and Adams.....	Irving avenue and Leavitt.....	466 17
16580	West Van Buren.....	Clinton.....	Chicago river.....	3,680 37
16581	West Lake.....	Chicago river.....	Halsted.....	48,760 50
16584	Hirsch.....	Leavitt.....	California avenue.....	27,921 67
16585	West Madison.....	Hamlin avenue.....	West Fortieth.....	7,937 70
16586	Centre avenue.....	Forty-seventh.....	Fifty-first.....	22,598 01
16588	Forty-second.....	Calumet avenue.....	Indiana avenue.....	4,808 55
16589	Norman avenue.....	North avenue.....	Bloomington road.....	9,345 96
16590	Edgewood avenue.....	Milwaukee avenue.....	Humboldt boulevard.....	20,868 52
16591	Colorado avenue.....	Douglas boulevard.....	Crawford avenue.....	13,029 29
16593	Union.....	Madison.....	Lake.....	21,206 88
16594	Alley.....	Sixteenth and Seventeenth.....	State and Dearborn.....	1,989 13
16595	Alleys.....	Owasco and Jackson.....	Rockwell and Washtenaw.....	2,362 68
16597	Hoyne avenue.....	Roscoe.....	Belmont avenue.....	11,655 17
16604	Alley.....	Dayton and Fremont.....	Webster and Belden avenues.....	3,064 58
16606	Greenwich.....	Robey.....	Leavitt.....	13,905 14
16611	Turner avenue.....	West Twenty-first.....	West Twenty-second.....	675 84
16626	Willis court.....	West Thirtieth.....	Right of way N. P. Ry.....	5,027 65
16627	Raleigh court.....	West Thirtieth.....	Right of way N. P. Ry.....	4,557 41
16628	Alleys.....	Madison and Monroe.....	Ashland boulevard and Lafin.....	3,189 91
16629	West Huron.....	Albany avenue.....	Kedzie avenue.....	5,195 98
16630	Morgan.....	Fifty-seventh.....	Sixty-third.....	87,643 02
16632	Alleys.....	Van Buren and Jackson.....	Ashland and Marshfield avenues.....	704 19
16633	Alleys.....	Jackson and Van Buren.....	Morgan and Aberdeen.....	2,801 36
16639	Fifty-ninth.....	Ashland avenue.....	State.....	95,520 40
16645	Alley.....	Western and Campbell avenues.....	Washington and Warren avenue.....	1,127 89
16646	Alley.....	Spaulding and Homan avenues.....	Scott and Van Buren.....	1,024 62
16651	Thirty-fourth court.....	Halsted.....	Laurel.....	13,452 51
16810	Alley.....	Francisco and Sacramento.....	Warren avenue and Madison.....	1,294 38

16829	Seminary avenue.	Wellington.	Belmont avenue.	6,812 46
16830	Cornelia.	North Clark.	Racine avenue.	6,948 43
16831	Alley.	Forty-fourth and Forty-fifth.	Union avenue and Sherman.	1,501 95
16888	Alleys.	Langley and Vincennes avenues.	Thirty-eighth and Thirty-ninth.	2,582 57
16889	Alley.	Twenty-ninth, 200 feet north thereof.	Cottage Grove and Vernon avenues.	533 62
16890	Alley.	Thirty-second and Thirty-third.	Dearborn and Armour avenue.	1,081 96
16891	Alleys.	South Park and Calumet avenues.	Thirtieth and Thirty-first.	2,788 81
16892	Alleys.	South Park and Calumet avenues.	Ray and Thirtieth.	1,214 69
16893	Alleys.	Michigan and Wabash.	Thirtieth and Thirty-first.	2,362 66
16894	Alleys.	Indiana and Michigan avenues.	Thirtieth and Thirty-first.	2,055 68
16895	Alley.	Albany and Kedzie avenue.	Warren avenue and West Madison.	1,317 75
16896	Alley.	Sacramento and Albany avenues.	Warren avenue and West Madison.	1,281 92
16897	Alley.	Western and Campbell avenues.	Congress and West Harrison.	1,524 36
16898	Alley.	Rockwell and California avenue.	West Monroe and Wilcox avenue.	2,770 26
16899	Alley.	Washienaw and California avenues.	West Jackson and Owasco.	1,105 90
16900	Alleys.	Robey and Hoyne avenue.	Carroll avenue and Fulton.	1,339 92
16901	Alley.	Albany and Kedzie avenues.	West Lake and Walnut.	2,137 03
16902	Alley.	Leavitt and Oakley avenue.	West Lake and Park avenue.	1,330 34
16903	Alley.	First North of Jackson.	Seeley and Hoyne avenues.	262 35
16904	Alleys.	Cottage Grove avenue and Woodlawn Park.	Thirty-fifth and Douglas Monument Park.	1,285 11
16905	Alley.	Indiana and Cottage Grove avenue.	Twenty-second and Twenty-third.	339 40
16935	Alley.	Carroll avenue and Fulton.	Sheldon and Ada.	1,870 14
16979	Alley.	Hobbie and Elm.	Milton avenue and Townsend.	959 89
16980	Alleys.	Calumet and South Park avenues.	Twenty-third and Twenty-fourth.	2,156 92
16981	Alley.	Kinzie and Fulton.	Western and Artesian avenues.	1,775 21
16982	Alleys.	North and Wabansia avenues.	Oakley avenue and Shober.	1,857 98
16983	Alleys.	Oakley avenue and Davis.	North and Wabansia avenues.	1,940 08
16984	Alleys.	Twenty fifth and Twenty-sixth.	Calumet and Cottage Grove avenues.	1,043 29
16985	Sixty-third.	State.	Cottage Grove avenue.	42,300 72
16986	Haven.	Shields avenue.	Stewart avenue.	1,304 62
16987	La Salle.	Fifty-first.	Garfield boulevard.	16,986 72
16988	Alleys.	Sedgwick and Townsend.	Division and Elm.	1,117 50
16989	Alleys.	Campbell and Maplewood avenue.	Fulton and Pan-Handle R. R.	1,552 06
16990	Alley.	Albany avenue and Gross ter.	Madison and Colorado avenue.	1,632 17
16991	Alleys.	Gross ter. and Sacramento avenue.	West Madison and Colorado.	1,135 08
16992	Alleys.	Michigan and Indiana avenues.	Twenty-fourth and Twenty-fifth.	1,210 29
16993	Alleys.	Davis and Western avenues.	North and Wabansia avenues.	2,080 05
16994	Alleys.	Clybourn and Fullerton avenues.	Perry and Cooper.	2,209 80
16995	Alley.	Indiana and Austin avenue.	Curtis and Carpenter.	907 58
16996	Illinois avenue.	Thirty-second.	Thirty-third.	8,726 45
16997	Logan.	Hickory.	C. & A. R. R.	3,583 72
16998	Forty-second.	Indiana avenue.	State.	7,243 91

## STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT—CONTINUED.

No. of Warrant	NAME OF STREET.	FROM	TO	AMOUNT.
16999	Wolfram...	Herndon...	Southport avenue...	\$ 4,024 70
17000	Coblentz...	Leavitt...	Western avenue...	8,186 72
17001	Lafin...	Forty-seventh...	Forty-ninth...	8,471 21
17002	Justine...	Forty-seventh...	Forty-ninth...	9,286 18
17003	Grand avenue...	Division...	Crawford avenue...	11,880 46
17004	Union avenue...	Sixty-ninth...	Seventy-first...	7,062 80
17005	Marianna...	Lincoln avenue...	Racine avenue...	3,746 50
17006	Lall avenue...	Sheffield avenue...	Racine avenue...	5,488 72
17008	Werder...	Rockwell...	California avenue...	7,615 18
17175	Alley...	Union and Halsted...	Randolph and Washington...	1,631 94
17176	Alleys...	Paulina and Hermitage avenue...	Van Buren and Congress...	1,098 08
17177	Alley...	Twenty-seventh and Twenty-ninth...	Dearborn and Armour avenue...	1,634 80
17178	Alleys...	Pine and Rush...	Chicago avenue and Superior...	558 84
17179	Alley...	Lincoln and Robey...	Warren avenue and Madison...	1,255 12
17180	Alley...	Nineteenth and Twenty-first...	Sawyer avenue and Spaulding avenue...	1,548 85
17181	Alley...	Fortieth and Forty-first...	Oral boulevard and Cottage Grove avenue...	1,087 32
17182	Alley...	First south of Fullerton avenue...	Cooper and Perry...	770 01
17183	Alleys...	Wells and Franklin...	Pearson and Chestnut...	685 45
17184	Alleys...	Locust and Chestnut...	Wells and North Franklin...	882 77
17185	Alleys...	Locust and Whiting...	Wells and Franklin...	956 86
17186	Alleys...	Oak and Whiting...	Wells and Franklin...	964 56
17187	Alleys...	Pearson and Chicago avenue...	Franklin and Wells...	800 15
17188	Alley...	Elm and Division...	Market and Sedgwick court...	459 42
17189	Alley...	Robey and Hoyne avenue...	Potomac avenue and Evergreen avenue...	353 17
17190	Alley...	Goethe and Division...	North State and Dearborn avenue...	1,082 48
17191	Alleys...	Robey and Hoyne avenue...	West Chicago avenue and Rice...	2,082 52
17192	Alleys...	Jackson and Van Buren...	Kedzie avenue and Troy...	1,712 62
17193	Alleys...	Indiana avenue and Prairie avenue...	Twenty-fourth and Twenty-fifth...	690 70
17194	Alley...	Prairie avenue and Indiana avenue...	Eighteenth and Twentieth...	291 80
17195	Alleys...	Calumet avenue and South Park avenue...	Twenty-fourth and Twenty-fifth...	1,759 40
17196	Alley...	Townsend and Milton avenue...	Division and Elm...	987 27
17197	Alley...	Wesson and Milton avenue...	Division and Elm...	1,047 00
17198	Alleys...	Wesson and Larrabee...	Division and Elm...	1,069 43
17199	Alley...	Oak and Hobbie...	Townsend and Sedgwick...	797 50
17200	Alley...	Pearson and Chestnut...	North Market and Sedgwick...	637 47
17201	Alley...	Chestnut and Locust...	North Market and Sedgwick...	360 82



17202	Alley	Oak and Hobbie	Milton avenue and Townsend	812 77
17217	Alley	North from Eugene	Hammond and Sedgwick	302 06
17218	Alleys	West Madison and West Monroe	Kedzie avenue and Albany avenue	2,941 28
17231	Alley	Twenty-ninth and 200 feet north	Vernon avenue and South Park avenue	519 92
17232	Alleys	Sebor and Mather	Desplaines and Halsted	958 57
17234	Bonney avenue	West Twenty-sixth	West Twenty-ninth	11,219 02
17237	Alley	Sacramento avenue and Albany avenue	West Lake and West Washington	2,081 51
17238	Alley	Falls and California avenue	Washington and Warren avenue	2,448 89
17247	Grand avenue	Western avenue	Chicago avenue	32,957 98
17248	Alleys	Rockwell and Washtenaw avenue	Owasco and Van Buren	1,463 74
17251	Laughton	Hoyle avenue	California avenue	52,372 78
17253	Powell avenue	Milwaukee avenue	Fullerton avenue	19,886 79
17254	Alley	Thirty-fourth and Thirty-fifth	Vernon avenue and Rhodes avenue	2,063 44
17255	Poplar	Stearns	Thirty first	12,784 30
17272	Low avenue, etc	Parnell avenue, etc, etc	Twenty eighth, etc, etc	2,080 50
17274	Joseph, etc	Leggatte, etc	Sacramento avenue, etc	27,716 01
17275	Falls	Lake	Warren avenue	4,031 71
17276	Thirty-second	Ashland avenue	Paulina	5,284 13
17278	Archer avenue, etc	Thirty-eighth, etc	California avenue, etc	90,727 49
17303	Wabash avenue	Twelfth	Twenty-second	42,653 51
17304	Emerald avenue	Sixty-ninth	Seventy-first	7,587 09
17305	Alleys	Astor and Stone	Scott and Goethe	1,121 16
17307	Ward	Diversey avenue	Wrightwood avenue	8,047 12
17308	Alleys	Jackson and Van Buren	Whipple and Sacramento avenue	1,771 47
17309	Alley	Forty-fourth and Forty-fifth	Ellis avenue and Berkeley avenue	1,197 95
17310	Nelson	Racine avenue	Southport avenue	7,085 34
17311	Thirty-eighth	Halsted	Stewart avenue	16,691 44
17324	Graceland avenue	North Clark	Alexander avenue	1,351 49
17325	Alley	Dearborn and State	Delaware place and Chestnut	5,753 14
17328	Alleys	Willow and Clay	Sheffield avenue and Bissell	2,674 00
17330	Huffman avenue	Milwaukee avenue	Diversey avenue	2,785 86
17331	Alleys	Webster avenue and Belden avenue	Dayton and Halsted	3,744 40
17317	Calumet avenue	Fifty first	Fifty-fifth	35,869 65
17348	Alley	Webster avenue and Belden avenue	Burling and Orchard	1,987 75
17352	Lawndale avenue	Ogden avenue	West Twelfth	51,248 12
17354	Alleys	South Park avenue and Lake avenue	Twenty fifth and Twenty-sixth	1,176 06
17396	Iowa	Robey	Lincoln	2,267 64
17397	James	Benson	Laurel	20,117 74
17398	Mill	Ashland avenue	Paulina	8,199 58
17399	Thirty-sixth	Western avenue	Kedzie avenue	32,403 39
17400	Fifth-first	Ashland avenue	Wood	8,641 72
17401	Robey	West Seventeenth	West Eighteenth	2,881 47



## STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT—CONTINUED.

No. of Warr't	NAME OF STREET.	FROM	TO	AMOUNT.
17402	Cologne.....	Main.....	Fuller.....	\$ 16,605 31
17403	Alleys.....	Lake avenue and South Park avenue.....	Twenty-fourth and Twenty-fifth.....	1,818 94
17435	Thirty-third.....	Oakley avenue.....	Archer avenue.....	40,506 81
	<b>Total.....</b>			<b>\$6,056,442 19</b>

## STATEMENT OF ASSESSMENTS FOR MISCELLANEOUS STREET AND ALLEY IMPROVEMENTS.

No. of Warr't	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14477	C. G. and Macadam.....	Thome avenue.....	Clark.....	Southport avenue, etc., etc.....	\$35,745 27
14493	C. G. and Macadam.....	Lincoln.....	West Eighteenth.....	West Nineteenth.....	8,499 45
14522	C. F. and Macadam.....	Winter.....	Sixty-ninth.....	Seventy-first.....	8,533 39
14582	C. F. and Macadam.....	Sixtieth.....	Halsted.....	Winter.....	5,034 27
14583	C. G. and Macadam.....	Boulevard place.....	Grand boulevard.....	Vincennes avenue.....	4,115 94
14584	C. G. and Macadam.....	Grace avenue.....	Sixty-third.....	South line Robertson's sub.....	4,096 38
14600	C. F. and Macadam.....	Sixty-fourth.....	Wallace.....	Winter.....	4,494 37
14610	C. G. and Macadam.....	Maryland avenue.....	Sixty-third.....	Sixty-fifth.....	2,809 69
14621	C. F. and Macadam.....	Superior avenue.....	Eighty-seventh.....	Ninety-second.....	30,612 74
14784	C. G. and Macadam.....	Buckingham place.....	Evanston avenue.....	W. line lot 17, Blk. 1, Clark & McConnell's add.....	3,498 93
14740	C. G. and Macadam.....	Prairie avenue.....	Thirty-ninth.....	Fifty-first.....	77,670 10
14746	C. F. and Macadam.....	Fifty-fourth court.....	Halsted.....	Morgan, etc., etc.....	11,677 30
14748	C. G. and Macadam.....	Michigan terrace.....	Fortieth.....	Cottage Grove avenue.....	49,468 44
14749	C. G. and Macadam.....	Fifty-seventh.....	Woodlawn avenue.....	Kinzie.....	12,262 04
14751	C. and Granite.....	Union.....	Lake.....	Seventy-fifth.....	21,661 70
14765	C. F. and Macadam.....	Yates avenue.....	Seventy-first.....	Halsted.....	9,806 15
14778	C. F. and Macadam.....	Sixty-fifth.....	Wallace.....	Halsted.....	9,002 51
14781	C. F. and Macadam.....	Englewood avenue.....	Wallace.....	Halsted.....	9,270 45
14789	C. and Macadam.....	Evans avenue.....	Forty-seventh.....	Forty-first.....	8,203 05
14818	C. G. and Macadam.....	Eighty-seventh place, etc., etc.....	South Park avenue, etc.....	Dauphin avenue, etc., etc.....	59,939 94
14836	C. G. and Granite.....	Alley.....	Twenty-third, 200 ft. so. of 22nd.....	Michigan avenue and Indiana avenue.....	2,508 19
14835	Granite.....	Franklin.....	Jackson.....	Harrison.....	24,904 39
14862	C. G. and Macadam.....	Evanston avenue.....	Bryn Mawr avenue.....	Thorndale avenue.....	20,482 15
14863	C. G. and Macadam.....	Grand avenue.....	Clark.....	Evanston avenue.....	21,424 05

14877	C. G. and Macadam.	Sixty-fourth.	Stony Island avenue.	Woodlawn avenue.	9,677 29
14884	C. G. and Macadam.	Stewart avenue.	South Normal parkway.	Sixty-ninth.	1,710 46
14927	Recurring	Thirty-sixth.	Vincennes avenue.	Stanton avenue.	7,004 95
14988	G. and Macadam.	W. Jackson.	Halsted.	Hoyne avenue.	279 09
14975	G. and Macadam.	Grand avenue.	North Clark.	Ridge avenue.	7,618 18
14982	Granite.	Halsted.	Lake.	Harrison.	40,496 79
14984	C. G. and Macadam.	Kenmore avenue.	Lawrence avenue.	Ainslie.	8,687 42
15039	G. and Macadam.	Warren avenue.	Leavitt.	Pollock.	9,588 86
15115	U. and repaving asphalt.	Dearborn avenue.	Chicago avenue.	Ohio.	25,880 85
15125	C. F. Macadam.	Sixty-first.	Winter.	Halsted.	5,482 84
15132	C. G. and P. Asphalt.	Prairie avenue.	Fifty-first.	Fifty-fifth.	47,893 21
15158	C. G. and Macadam.	Forty-first.	Grand boulevard.	State.	19,215 72
15159	C. G. and Macadam.	Thirty-seventh.	Wabash avenue.	Michigan boulevard.	3,911 78
15177	C. G. and P. Granite.	Alley.	Block 142 School section.	Cottage Grove avenue.	1,188 20
15281	C. G. and Macadam.	Fifteenth court.	Vincennes avenue.	Cottage Grove avenue.	11,880 65
15289	C. G. and Macadam.	Kenney avenue.	Seventy-first.	Seventy third.	6,211 84
15291	C. G. and Macadam.	Forty-eighth.	Cottage Grove avenue.	St. Lawrence avenue.	9,152 87
15365	C. G. and Macadam.	Seventy-first.	Indiana avenue.	Vincennes road.	10,041 43
15403	C. and Asphalt.	W. Congress.	Loomis.	Ashland avenue.	14,915 61
15486	C. G. and Asphalt.	W. Washington.	Hamlin avenue.	Crawford avenue.	17,127 86
15487	C. G. and Asphalt.	Park avenue.	Hamlin avenue.	Crawford avenue.	17,495 12
15495	C. and Granite.	West Adams.	Canal.	Halsted.	27,910 22
15499	C. G. and Macadam.	Forty-fifth.	Drexel boulevard.	Grand boulevard.	26,195 19
15507	C. F. and Macadam.	Sixty-first.	Wood.	Ashland avenue.	9,270 35
15602	C. G. and Macadam.	Evanson avenue.	Bryn Mawr avenue.	Thorndale avenue.	14,887 50
15625	C. G. and Macadam.	Forty eighth.	Drexel boulevard.	Cottage Grove avenue.	8,742 93
15626	C. G. and Macadam.	Lexington avenue.	Sixtieth.	Sixty-first.	8,424 34
15629	C. G. and Macadam.	Forty-fourth.	Greenwood avenue.	Ellis avenue.	8,831 64
15630	C. F. and Macadam.	Marshfield.	Fifty-ninth.	Sixty-first.	5,749 52
15631	C. F. and Macadam.	Paulina.	Fifty-ninth.	Sixty-first.	6,760 41
15632	C. F. and Macadam.	Wood.	Fifty-ninth.	Sixty-first.	8,964 08
15633	C. F. and Macadam.	Sixtieth.	Wood.	Ashland avenue.	6,969 17
15634	C. F. and Macadam.	Page.	Fifty-ninth.	Sixty-first.	6,207 29
15635	Planking.	Alley.	Indiana avenue and Michigan avenue.	Twenty third and Twenty-fourth.	1,121 68
15636	C. G. and Macadam.	Fifty-second.	Drexel avenue.	Cottage Grove avenue.	3,738 64
15669	C. F. and Macadam.	Sixty-sixth.	I. C. R. R.	Cottage Grove avenue.	15,671 99
15687	C. F. and Macadam.	Tracy avenue.	Garfield boulevard.	Fifty-seventh.	6,360 81
15698	C. F. and Macadam.	Fifty-eighth.	Washington avenue.	Madison avenue.	1,027 58
15773	C. F. and Macadam.	Seventy-first.	Halsted.	Wallace.	12,149 30
15819	C. G. and Macadam.	Stony Island avenue.	Fifty-sixth.	Sixty seventh.	29,584 76
15830	C. G. and Macadam.	Fifty-fourth.	Lake avenue.	Woodlawn avenue.	8,620 78
15860	C. F. and Macadam.	Maple.	Wright.	Wallace.	8,665 97

## STATEMENT OF ASSESSMENTS FOR MISCELLANEOUS STREET AND ALLEY IMPROVEMENTS—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
15883	C. F. and Macadam.	Cottage Grove avenue.	Seventy-fifth.	Ninety-fifth.	\$ 41,918 78
15976	C. G. and Macadam.	Waubun avenue.	Barry avenue.	Wellington.	2,480 60
15994	F. and Macadam.	Wendell avenue.	Eighty-second.	Eighty-third.	2,122 70
16106	C. G. and Macadam.	Thirty-seventh court.	Michigan boulevard.	Indiana avenue.	3,896 16
16118	C. G. and Macadam.	Michigan avenue.	Fifty-sixth.	Sixty-third.	635 58
16149	Granite.	Clinton.	Carroll avenue.	180 feet north.	4,265 86
16241	C. F. and Macadam.	Belle Plaine avenue.	Ashland avenue.	Perry.	2,438 81
16242	C. G. and Macadam.	Forty-fourth.	St. Lawrence avenue.	Grand boulevard.	7,082 57
16243	C. G. and Macadam.	Forty-fourth.	State.	Grand boulevard.	10,402 12
16238	C. F. and Macadam.	Sixty-seventh.	Honore.	Ulaisted.	14,694 10
16539	G. and P. (Granite).	E. N. and S. and W. alleys.	Block 40, original town.	South terminus	2,288 22
16541	C. G. and Macadam.	West court.	Belmont avenue.	South terminus	1,724 17
16542	C. G. and Macadam.	Forty-fifth.	Woodlawn avenue.	Drexel boulevard.	18,618 83
16596	C. G. and Macadam.	Lawrence avenue.	Sheffield avenue.	Lake Michigan.	7,748 49
16607	C. G. and Asphalt.	Hubbard court.	State.	Michigan boulevard.	9,386 32
16610	C. G. and Macadam.	Indiana avenue.	Sixteenth.	Eighteenth	3,621 00
16615	C. G. and Macadam.	Seventy-first.	Cottage Grove avenue.	South Park avenue.	9,371 98
16638	C. F. and Macadam.	Seventy-first.	Stewart avenue.	Wallace.	8,082 99
16741	C. F. and Macadam.	Shields avenue.	Seventy-third.	Seventy-fifth.	7,568 01
16823	C. G. and Macadam.	Sangamon.	Fifty-ninth.	Sixty-third.	14,777 60
16824	C. G. and Macadam.	Sixty-third.	Union avenue.	Halsted.	2,813 56
16825	C. G. and Macadam.	Seventy-fifth.	Vincennes avenue.	Stewart avenue.	6,088 43
16828	C. G. and Macadam.	Forty-ninth.	Cottage Grove avenue.	Grand boulevard	11,577 05
16832	G. and Granite.	Ninety-second.	Commercial avenue.	Harbor avenue.	28,087 74
16833	C. G. and Macadam.	Carpenter.	Fifty-ninth.	Sixty-third.	16,740 48
16906	C. G. and Macadam.	Ninety-first.	Cottage Grove avenue.	South Park avenue.	5,498 75
17007	C. G. and Macadam.	Sherman.	Sixty-ninth.	Seventy-first.	7,112 89
17009	C. F. and Macadam.	North Normal Parkway.	Stewart avenue.	Wright.	8,204 84
17027	C. G. and Macadam.	Sixty-sixth court.	Wright.	Honore.	2,847 13
17232	C. and Macadam.	North ½ Fifty-first.	Cottage Grove avenue.	Grand boulevard.	9,250 39
17236	C. G. and Macadam.	South Park avenue.	Eighty-seventh.	Ninety-first.	10,966 29
17306	C. G. and Macadam.	Paxton avenue.	Seventy-fifth.	Seventy-ninth.	8,915 89
17311	C. G. and Macadam.	Sixty-fifth court.	Stewart.	Honore.	4,870 59
17322	C. G. and Macadam.	Fort street	Fifty-ninth.	Sixty-third.	14,772 11
17344	C. G. and Macadam.	Forty-first.	St. Lawrence avenue.	Grand boulevard.	1,601 44
17349	C. G. and Asphalt.	Harmon court.	State.	Michigan boulevard.	10,840 37

17362	C. G. and Macadam.	Aberdeen.	Fifty-ninth.	Sixty-third.	17,586 27
17363	C. G. and Macadam.	Seventy-sixth.	Vincennes avenue.	Stewart avenue.	4,046 40
17364	C. G. and Macadam.	Seventieth.	Halsted.	C. R. I. & P. Ry.	18,597 19
17365	C. F. and Macadam.	Southport avenue.	Devon avenue.	144 32 <sup>nd</sup> north of First avenue.	2,802 88
17386	C. G. and Macadam.	Seventieth.	Wentworth avenue.	C. R. I. & P. Ry.	3,118 91
17395	C. G. and Cindering.	Hoynes avenue.	Archer avenue.	Thirty-fourth.	3,687 28
17420	C. G. and Macadam.	Sixty-fourth.	Union avenue.	Halsted.	2,420 81
17421	C. G. and Macadam.	Green.	Fifty-ninth.	Sixty-third.	13,492 00
TOTAL.					\$1,301,491 99

## STATEMENT OF ASSESSMENTS FOR STREET AND ALLEY OPENING AND WIDENING.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14488	Opening	Tracey avenue.	Fifty-seventh.	S. line lot 25, C. T. sub. 16, 38, 14	\$ 1,041 61
14609	Opening	Alley.	Wrightwood avenue and Diversey	Florence avenue and Halsted...	1,298 36
14759	Opening	Sullivan court.	South terminus.	Thirty-first.	6,819 00
14760	Opening	Alley.	Downs & Bielenberg's addition.		875 06
14761	Widening	Wallace.	One Hundred and Third.	One Hundred and Fourth.	538 00
14762	Widening	Forty-ninth.	Indiana avenue.	Prairie avenue.	4,483 00
14763	Opening	Alley.	Washington avenue and Fairfield avenue	Twelfth and Washburne avenue.	598 30
14764	Straightening.	Twenty-third place.	into Archer avenue.	Douglas park addition.	1,729 00
14805	Widening	Kedzie avenue.	through block 1.	Van Buren.	3,960 50
14906	Opening	Phinney avenue.	Jackson.	Seymour avenue.	6,861 80
14907	Opening	Iowa.	Washtenaw avenue.	Wentworth avenue.	6,591 26
14908	Opening	Fifty-seventh.	State.	Root.	82,958 60
14909	Opening	Hopkins.	Fortieth.	Wallace.	8,888 75
14810	Opening	Seventy-fourth.	Wright.	Seventy-third.	5,574 29
14811	Opening	Alley.	Thirty-seventh and Oxford court	Vernon and Stanton avenues.	5,892 08
14812	Opening and widening.	East Ravenswood parkway.	north line S. E. 1/4 S. E. 1/4 sec. 7 to south line of sec. 6, 40, 14.		300 40
14820	Opening	Alley.	block 1 Cleaverly addition.	Seventy third.	8,741 30
14821	Opening	Bissell avenue.	Seventy-second.	C. & N. W. Ry.	8,148 00
14822	Opening	North Fifty-ninth	Ashland avenue.	Evansston avenue.	8,654 19
14823	Opening	a street from.	Halsted.	Seventy fourth.	12,559 50
14824	Opening	Matteson avenue.	Seventy third.	Addition.	8,487 50
14825	Widening	Albany avenue.	through block 1 Douglas park		3,485 70
14870	Opening	Alley.	in block 84 School section addition		95,596 02
14986	Opening	Thirty-second.	Block 3 C. T. sub. 38, 39, 14	Portland avenue	51,094 41

## STATEMENT OF ASSESSMENTS FOR STREET AND ALLEY OPENING AND WIDENING—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
15249	Opening	Alley.	Block 53, Kinzie addition.	Halsted.	\$ 1,488 00
15250	Opening	Fifty-fourth.	Union avenue.	of N. E. 1/4, 25, 38, 14.	9,372 20
15251	Opening	Alley.	Block 5, Stave & Klemm's sub.	Seventy-fifth.	1,823 75
15252	Opening	Harvard.	Seventy-fourth.	138 ft. E. Con. pk. ave. bet. Walnut & Fulton	5,280 80
15253	Opening	Alley.	Fr. E. line of Downs & Bielenberg's add.	Chaplain and St. Lawrence avenues.	476 55
15254	Opening	Alley.	Forty-second and Forty-third	Sherman avenue.	1,711 10
15255	Widening	Eighty-third.	Merrill avenue.	Ogden avenue and W. Fifteenth.	4,529 20
15256	Opening	Alley	Washtenaw avenue and Talman avenue.	Evansston avenue.	2,336 20
15257	Opening	Racine avenue.	Sulzer.	Cornell avenue.	21,719 00
15258	Opening	Fifty-fifth.	I. C. R.	Stave & Klemm's sub.	19,206 20
15259	Opening	Seventy-fourth.	through part block 7.	Elston road.	8,079 70
15260	Opening	Clark.	Lewis.	Warren avenue.	3,084 71
15261	Opening	Falls.	West Madison.	Grand boulevard.	15,605 25
15262	Opening and Widening	Forty-eighth.	Indiana avenue.	Lake Michigan.	8,963 45
15263	Opening	Seventy-ninth	E. line section 31, 38, 15.	One Hundred and Twenty-seventh	8,368 00
15264	Opening	Alley.	Block 1, Bushnell's addition.	Van Buren.	2,848 45
15265	Opening	State.	Indiana boundary line.	West Forty-third	4,386 40
15266	Opening	West Forty-third.	Jackson.	Warren avenue.	2,101 00
15267	Opening	Owasco.	West Forty-second	Garden avenue.	2,132 00
15268	Opening	Hamlin avenue.	West Lake.	Forty-seventh and Graylock ave	1,157 00
15269	Opening	Byrne avenue.	Franklin	Twenty-sixth.	2,420 00
15270	Opening	Alley.	Wentworth avenue and Atlantic.	State	3,359 60
15271	Opening	Trumbull avenue.	Twenty-second	Eighty-third.	12,256 80
15272	Opening	One Hundred and Fourteenth.	Michigan avenue.	Stanwood avenue	40,892 50
15273	Opening	Paxton avenue	Seventy-ninth.	Vincennes avenue.	20,818 00
15274	Opening	Curtis	One Hundred and Thirteenth.	Stony Island avenue.	5,713 00
15275	Opening	Chaplain avenue.	Fiftieth.	Central Park avenue.	25,017 04
15276	Opening	Fiftieth.	Cottage Grove avenue.	Howe and Orchard.	10,511 12
15277	Opening	Fifty-sixth.	Lake avenue.	Eighty-first.	3,159 50
15278	Opening	Congress.	Homan avenue.	Washington boulevard.	69,748 68
15279	Opening	Alley.	Willow and Centre.	Halsted.	14,957 50
15280	Opening	Emerald avenue.	Eightieth.	Thirty fifth.	17,970 75
15281	Opening	Washtenaw avenue.	Harrison.		
15282	Opening	Seventy-third.	State.		
15283	Opening	Butler.	Thirty-third.		

17980	Opening	Forty-eighth.....	Cottage Grove avenue.....	Grand boulevard.....	19,899 60
17981	Opening	Yates avenue.....	Seventy-ninth.....	Eighty-third.....	2,684 00
TOTAL.....					\$ 672,480 72

## STATEMENT OF ASSESSMENTS FOR CONSTRUCTING SEWERS.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14453	Tile Pipe.	Tracey avenue.....	Forty-seventh.....	The alley north of Graylock ave.	\$ 1,755 09
14458	do	Ballou avenue.....	Armitage avenue.....	Bloomingtondale road.....	8,835 44
14454	do	Central Park avenue.....	do	do	8,835 55
14455	do	Oglesby avenue.....	do	do	8,835 55
14456	do	Kimbell avenue.....	do	do	8,898 34
14457	Brick and T. P.	Milwaukee avenue.....	Diversey.....	Belmont avenue.....	15,075 42
14463	Tile Pipe.	Garfield boulevard, alley south of	Aberdeen.....	Centre avenue.....	1,278 02
14468	do	Lafin.....	Forty-sixth.....	100 ft. north of Forty-seventh	1,278 02
14464	do	Carpenter.....	Sixty-third.....	Sixty-fourth.....	1,438 91
14465	do	Douglas Park avenue.....	Washington.....	East.....	566 18
14466	Brick and T. P.	Lawndale avenue, etc., etc.	Grand avenue, etc., etc.	Frederick avenue, etc.	5,079 80
14467	Tile Pipe.	Gross avenue.....	Forty-sixth.....	Forty-seventh.....	1,681 52
14468	Brick and T. P.	Avondale avenue.....	Belmont avenue.....	Diversey.....	8,754 70
14469	do	Forty-seventh.....	Paulina.....	Wood.....	2,343 04
14470	Tile Pipe.	Tinkham avenue.....	Grand avenue.....	Frederick.....	3,158 28
14471	do	Honore.....	Seventy-first.....	Seventy-third.....	2,644 96
14472	do	Girard.....	Henry.....	South 800 feet.....	674 78
14473	do	Tracey avenue.....	Forty-third.....	Forty-fifth.....	3,124 25
14474	do	Larabee.....	Frederick.....	Fullerton avenue, 50 ft. north of	706 58
14475	do	Jefferson court.....	Western avenue.....	Perry.....	2,054 40
14476	do	Central Park avenue.....	Grand avenue.....	Frederick avenue.....	4,107 13
14478	do	Troy.....	West Jackson.....	West Van Buren.....	1,039 64
14479	do	Trumbull avenue.....	Harrison.....	Alley south of Colorado avenue.	2,021 40
14480	do	Perry.....	Nellie avenue.....	Grace.....	1,458 07
14481	do	Bosworth avenue.....	Nellie avenue.....	Alley south of Grace.....	1,169 67
14482	Brick and T. P.	Fiftieth.....	Ashtland Park avenue.....	Centre avenue.....	6,628 05
14483	Tile Pipe.	Palatine.....	Central Park avenue.....	Homan avenue.....	3,068 08
14484	do	North side of Douglas Park b'd.	do	do	2,840 11
14485	do	Carpenter.....	Sixty-fourth.....	Sixty-fifth.....	1,228 17
14486	do	Lincoln place.....	Graceland avenue.....	520 feet south.....	1,071 20

## STATEMENT OF ASSESSMENTS FOR CONSTRUCTING SEWERS—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14487	Tile Pipe.	Wolfram.	Southport avenue.	Perry.	\$ 1,449 64
14497	do	West Twenty-second.	Hamlin avenue.	Ogden avenue, etc., etc.	3,288 80
14498	do	Courtland.	Clarkson avenue.	258 feet west	574 98
14499	do	North side of West Twenty-second.	Crawford avenue.	60 feet east of Harding avenue.	2,359 59
14500	do	North side of Logan square.	Kedzie avenue.	East 500 feet.	986 38
14501	do	School.	Ashland avenue.	Perry.	1,402 45
14502	do	Irving avenue.	West Thirteenth.	West Fourteenth.	1,410 02
14503	do	West Twenty-sixth.	Homan avenue.	St. Louis avenue.	1,796 42
14504	do	West Twenty-sixth.	Kedzie avenue.	370 feet W. of Spaulding avenue	8,267 73
14505	do	Hoffman avenue	Diversey.	Elston avenue.	2,865 46
14506	do	La Salle.	Fifty-third.	Garfield avenue.	2,892 90
14507	do	Sixty-fourth.	Grace avenue.	Stony Island avenue.	760 90
14508	do	Harbor avenue.	Green Bay avenue.	Mackinaw avenue, etc	2,158 86
14509	do	Alice place.	Western avenue.	West 297 feet.	705 52
14520	do	Warren avenue.	Crawford avenue.	Hamlin avenue.	3,131 83
14521	do	Commercial.	Graceland avenue.	Berteau avenue.	3,008 48
14601	Brick and T. P.	West Thirteenth.	Kedzie avenue.	Homan avenue, etc., etc.	17,141 89
14602	Tile Pipe.	Myrtle avenue.	Diversey.	Humboldt boulevard.	2,850 80
14635	do	Woodside avenue.	Lincoln avenue.	Alley south of Grace.	7,521 06
14636	do	Park avenue.	Crawford avenue.	Hamlin avenue.	3,131 83
14637	do	West Washington.	Crawford avenue.	Hamlin avenue.	3,131 83
14677	do	Fifty-ninth.	Halsted.	Hamlin avenue.	2,126 04
14678	do	Sixty-sixth court.	Honore.	Wright.	895 07
14670	do	Elis avenue.	Fifty-seventh.	Fifty-ninth.	4,962 54
14680	do	Fifty-ninth.	Ashland avenue.	Wood.	3,576 88
14681	do	Haugan avenue.	Addison.	Nellie avenue.	1,622 87
14723	do	Marianna.	Ward.	Herndon.	648 50
14724	do	Southport avenue.	Nellie avenue	Byron.	3,209 49
14725	do	East side of Drexel boulevard.	Fifty-first.	Fiftieth.	1,408 29
14726	do	Fletcher.	Hoyle avenue.	Oakley avenue.	2,906 45
14727	do	Geddings.	Robey.	Leavitt.	2,887 65
14728	do	Evanson avenue.	Thorndale avenue.	515 feet south.	811 95
14729	do	Farmlace.	Western avenue.	475 feet east.	1,022 48
14730	do	West Erie.	Western avenue	Seymour.	3,088 83
14731	do	Forty-seventh, etc., etc.	Ellis avenue, etc., etc.	East driveway Drexel boulevard.	5,088 77
14732	do	3rd and Reesing Well and Pumping Works.	Lake Michigan.	State.	196,014 87

14738	Brick and T. P.	West Madison, etc.	West Washington, etc., etc.	West Randolph, etc.	156,657 71
14735	Tile Pipe.	Kroll	Moore	338 feet south.	750 03
14737	do	West Twenty-sixth.	Crawford avenue.	235 feet east of Avers avenue.	3,307 23
14739	do	Paulina.	Cornelia	Lincoln avenue.	1,323 04
14750	do	Michigan terrace	Fortieth	Forty-first.	3,108 95
14756	do	West Chicago avenue.	Central park avenue.	Crawford avenue.	7,494 79
14757	do	Nelson, etc.	Ashland avenue, etc.	Perry, etc.	2,341 60
14767	Brick and T. P.	Central park avenue.	Hamlin avenue	Augusta, etc., etc.	53,564 27
14774	do	West Eighteenth, etc., etc.	Central park avenue, etc., etc.	Lawndale avenue, etc., etc.	9,598 21
14780	Tile Pipe.	Evanston avenue	Lawrence avenue.	Argyle.	2,278 26
14785	do	Commercial.	Graceland avenue.	Lincoln avenue.	7,884 18
14791	do	Wallace.	Sixty-ninth.	Seventy-first.	2,775 85
14793	Brick and T. P.	West Seventeenth, etc., etc.	Rockwell, etc., etc.	Washienaw avenue, etc., etc.	21,254 47
14994	Tile Pipe.	Goodwin.	Central park avenue.	Homan avenue.	1,652 94
14796	do	Calumet avenue.	Fifty-first	Garfield boulevard.	6,709 63
14804	do	N. driveway Garfield boulevard.	State.	South Park avenue.	5,883 63
14819	do	Noble avenue.	Ashland avenue.	Wood.	3,069 90
14827	Brick and T. P.	Perry avenue, etc., etc.	Graceland avenue, etc., etc.	The alley north of Grace, etc.	7,795 42
14828	Tile Pipe	Cross	West Harrison.	Alley south of Colorado avenue.	1,242 15
14829	Brick and T. P.	West Sixteenth, etc., etc.	Central park avenue, etc., etc.	Lawndale avenue, etc., etc.	9,061 77
14851	Brick and T. P.	Albany avenue, etc., etc.	West Twenty-second, etc., etc.	West Twenty-sixth, etc., etc.	13,674 81
14852	Tile Pipe.	West Chicago avenue.	Kedzie avenue.	Central Park boulevard.	3,555 81
14853	Brick and T. P.	North side of Douglas Park boul.	Central Park avenue, etc., etc.	Central Park bld. & Douglas Park bld., etc.	11,158 86
14858	Tile Pipe.	N. Clark.	Grand avenue.	Church road.	3,054 96
14859	Brick and T. P.	Southport avenue, etc., etc.	Grand avenue, etc., etc.	Devon avenue, etc., etc.	11,457 47
14860	do	West Harrison.	West Adams.	Wilcox avenue, etc., etc.	110,128 49
14861	do	West Taylor.	Bryn Mawr avenue, etc., etc.	Ridge avenue, etc., etc.	19,528 78
14868	do	Receiving well and sewers.	Harvard	West Polk, etc., etc.	22,943 04
14869	70th st. pumping wks.	Leland avenue.	Robey	Leavitt	187,292 30
14874	Tile Pipe.	Pumping works.	Woodlawn		2,971 03
14933	Drainage system and	Myrtle avenue.	Diversey	Humboldt boulevard.	8,933 97
14940	Brick	Belmont avenue.	Chicago river	Milwaukee avenue.	14,389 78
14942	Brick and T. P.	Sixty-ninth, etc., etc.	Diversey	Crawford avenue.	12,903 46
14943	do	Vincennes avenue, etc.	Halsted, etc.	Morgan, etc., etc.	10,951 58
14965	Brick	Western avenue.	85th, 86th and 88th place.	Eighty-seventh, etc., etc.	44,801 33
14972	Brick	Lincoln, etc., etc.	W. fork S. branch Chicago river	Four hundred feet south of 81st.	8,073 92
15007	Brick and T. P.	Melrose.	Blue Island avenue, etc., etc.	Moore, etc., etc.	3,840 95
15024	Tile Pipe.	Noble avenue.	Western avenue.	Alley west of Leavitt.	1,909 10
15025	do	Fletcher.	Western avenue.	610 feet west.	1,148 36
15026	do	Yates avenue.	Seventy-first.	565 feet west.	1,086 95
15103	Brick		Seventy-third.		4,616 97



## STATEMENT OF ASSESSMENTS FOR CONSTRUCTING SEWERS—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
15104	Tile Pipe.....	Sixty-third	Stewart avenue.	Princeton avenue.	\$ 1,568 87
15120	do .....	Paulina.	Addison.	Graceland avenue.	8,219 93
15123	Brick and T. P. ....	Cottage Grove avenue.	Fifty-first.	Fifty-fourth.	5,923 33
15135	Brick .....	Fullerton avenue.	Humboldt boulevard.	Crawford avenue.	84,403 56
15137	Brick and T. P. ....	California avenue.	Diversey.	Garden avenue.	3,403 18
15140	Brick .....	Diversey.	Kedzie avenue.	Crawford avenue.	48,216 96
15142	Brick and T. P. ....	California avenue.	Diversey.	Humboldt boulevard.	8,854 14
15154	Brick .....	Homan avenue.	West Twenty-second.	West Twenty-sixth.	8,855 59
15155	Tile Pipe .....	Columbia avenue.	Armitage avenue.	Humboldt avenue.	3,769 98
15157	do .....	Carroll avenue.	Homan avenue.	320 feet east.	744 58
15160	Brick .....	Ashland avenue.	Fifty-ninth.	Sixty-third.	15,862 00
15187	Tile Pipe .....	Ashland avenue.	Tuttle avenue.	Webster avenue.	1,146 39
15192	do .....	West court.	Belmont avenue.	289 feet south.	578 80
15193	do .....	Fifteenth court.	Cottage Grove avenue.	Vincennes avenue.	4,443 63
15194	Brick .....	Indiana.	Seneca.	275 feet east.	1,805 07
15195	Tile Pipe .....	Alley West of Clark.	Lawrence avenue.	Tuttle avenue.	1,911 55
15196	do .....	Thirty-seventh court.	Wabash avenue.	Michigan avenue.	827 43
15197	do .....	Buena Vista avenue.	Emerald avenue.	200 feet east.	417 20
15198	do .....	Thirty-fourth court.	Lincoln.	Robey.	1,402 96
15199	do .....	Peoria.	Sixty-ninth.	Seventy-first.	4,914 13
15200	do .....	Thirty-sixth.	Gage.	Laurel.	852 86
15201	do .....	Drummond avenue.	Augusta.	Division.	2,985 53
15202	Brick and Tile Pipe ..	Racine avenue, etc., etc.	Addison, etc., etc.	30 feet south, etc., etc.	9,092 58
15203	Tile Pipe .....	Rice place.	West Twenty-second.	Alley north of Moore.	1,128 06
15204	do .....	West Sixteenth.	Spaulding avenue.	Douglas Park boulevard, etc., etc.	3,917 15
15205	Brick and T. P. ....	East side of Douglas Park bvd.	West Twentieth.	West Twenty-second, etc., etc.	4,761 08
15206	Tile Pipe .....	Laughton.	Rockwell.	C. St. L. & P. R. R.	1,445 96
15259	do .....	Kedzie avenue.	Diversey.	Belmont avenue.	6,447 62
15274	do .....	Laulla avenue.	Seventy-first.	Seventy-third.	3,850 00
15275	do .....	Cregier avenue.	Seventy-first.	Seventy-third.	3,774 85
15276	do .....	Grace avenue.	Sixty-third.	353 feet south.	2,438 68
15277	Brick .....	Palmer avenue.	Seventy-first.	Seventy-third.	5,087 47
15278	Brick and T. P. ....	Milwaukee avenue.	Belmont avenue.	Montrose boulevard.	37,296 98
15279	Brick .....	Kedzie avenue.	West from West branch Chicago river.	Twenty-sixth.	10,708 42
15280	Tile Pipe .....	Forty-ninth.	Vincennes avenue.	Alley east of Grand boulevard.	1,444 58
15280	do .....	Jeffrey avenue.	Seventy-first.	Seventy-third.	3,885 20

15881	Title Pipe.	Paxton avenue.	Seventy-first.	Seventy-third.	8,849 08
15883	do	Kinney avenue.	Seventy-first.	Seventy-third.	3,774 59
15888	do	Tracy avenue.	Fifty-seventh.	Alley south of Fifty-eighth.	862 78
15894	do	Peoria.	Fifty-fourth court.	Alley north of Garfield boulevard, 46	1,637 78
15899	do	Marianna.	Lewis.	Herndon.	440 00
15875	do	Laughton.	California avenue.	Washtenaw avenue.	1,274 95
15891	Brick and T. P.	Homan avenue, etc., etc.	Grand avenue, etc., etc.	Baxter avenue, etc.	24,846 16
15892	Title Pipe	Sangamon.	Seventieth.	Seventy-first.	1,179 85
15898	do	Aberdeen.	Sixty-third.	Sixty-fifth.	2,421 22
15894	do	May.	Sixty-second.	Sixty-third.	1,263 80
15895	do	Union avenue.	Fifty-eighth.	Fifty-ninth.	1,289 85
15405	do	Fifty-fourth.	Kimball avenue.	Woodlawn avenue.	857 00
15488	do	Springfield avenue.	West Ohio.	West Chicago avenue.	5,883 59
15489	do	Central Park avenue.	West Ohio.	West Chicago avenue.	3,655 57
15490	do	Tinkham avenue.	West Ohio.	West Chicago avenue.	4,740 47
15491	Brick and T. P.	West Twelfth, etc.	Crawford avenue, etc., etc.	Douglas Park boulevard, etc., etc.	11,679 01
15492	Title Pipe.	West Twenty-fourth, etc.	Kedzie ave., etc.	Troy, etc.	6,295 93
15504	Brick and T. P.	Bissell avenue, etc., etc.	Seventy-third, etc., etc.	Seventy-fifth, etc.	6,694 96
15521	do	Colorado avenue.	West Twelfth.	Woodlawn avenue, etc.	98,891 42
15523	Title Pipe.	Sixty-fourth.	Greenwood avenue.	East 220 feet.	664 10
15524	do	Thirty-second.	Auburn.	Laurel.	1,283 96
15525	do	Thirty-third.	Auburn.	Laurel.	1,814 53
15526	do	Hoyne avenue.	Thirty-fifth.	Thirty-seventh.	4,290 23
15527	do	Thomas avenue.	Fullerton avenue.	Linden place, etc.	3,829 49
15528	do	Eighty-first.	Halsted.	Alley west of Vincennes avenue.	5,105 71
15529	do	Leavitt.	Thirty-fourth.	Thirty-fifth.	1,471 20
15530	do	Fisk.	Springer.	Thirty-fourth.	2,214 08
15531	do	Hammond avenue.	Diversey.	Avondale avenue.	6,428 59
15532	do	Loomis.	Fiftieth.	R. of way G. T. Jct. Ry.	948 48
15633	do	Wabansia avenue.	Kedzie avenue.	Alley west of Sheridan, etc.	8,660 88
15584	do	Delamater place.	Armitage avenue.	Bloomington road.	2,971 96
15535	do	Union avenue.	Sixtieth.	Sixtieth court.	463 00
B. and T. Pipe.	do	Sulzer.	Robey.	Lincoln avenue, etc.	13,123 23
15542	do	Sheridan avenue.	Byrne avenue.	Park avenue, etc., etc.	47,296 16
15574	Title Pipe.	Maryland avenue.	Sixty-third.	629 feet south of Sixty-third.	1,912 60
15575	do	Clara place.	Perry avenue.	Western avenue.	1,457 86
15576	B. and T. Pipe.	West Twenty-third.	West Twenty-fourth.	West Twenty-fifth, etc.	14,183 60
15577	Title Pipe.	Cherry place.	Perry avenue.	Alley west of Powell avenue.	815 65
15578	do	Alice place.	Perry avenue.	Alley west of Powell avenue.	1,450 84
15579	do	Bremen.	Perry avenue.	Western avenue.	476 00
15673	do	Cornelia.	Paulina.	255 feet west.	8,371 03
15676	do	Myrtle avenue.	Milwaukee avenue.	Fullerton avenue.	

## STATEMENT OF ASSESSMENTS FOR CONSTRUCTING SEWERS—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
15677	Tile Pipe.	Sobieski	Fullerton avenue.	Right of way C. & N. W. Railway	\$ 799 60
15678	do	Chicago ter.	Crawford avenue.	Harding avenue.	707 50
15788	do	Thirty-eighth	Laurel	Gage.	888 75
15701	B. and T. Pipe.	Kimbell avenue.	Fullerton avenue.	Diversey.	7,612 06
15792	Tile Pipe.	Mosprat.	298 feet south of Springer.	South terminus.	1,485 26
15793	do	Atterica.	Auburn.	475 feet west.	1,084 12
15794	do	Sherman.	Fifty-ninth.	Cleveland.	1,461 57
15810	do	Kimbell avenue.	Fullerton avenue.	Humboldt avenue.	4,345 87
15811	do	Dryer.	Fifty-ninth.	Sixty-first.	1,674 64
15815	B. and T. Pipe.	Ewing avenue.	Calumet river.	One Hundred and Tenth.	36,415 10
15818	Tile Pipe	School.	Thirty-ninth.	Root	294 12
15825	do	Courtland	Kimbell avenue.	Central Park avenue.	2,502 64
15848	do	Hamburg	Leavitt.	Robey.	2,684 53
15849	do	Rebecca.	Western avenue.	Right of way C., St. L. & P. Ry.	1,442 72
15850	do	Rebecca.	Rockwell.	East 413 feet.	1,081 50
15864	do	Bennett avenue.	Seventy-third.	Seventy-second.	1,777 11
15865	do	West Nineteenth.	Kedzie avenue.	South Western boulevard	2,928 59
15866	do	Jeffrey avenue.	Seventy-third.	Seventy-fifth.	2,728 26
15867	do	Emerald avenue.	Fifty-seventh.	Fifty-ninth.	1,382 16
15931	do	Yorktown	Thirty-fourth	Thirty-fifth.	4,482 00
15932	Brick.	Armitage avenue.	Kedzie avenue.	Columbia avenue.	1,227 50
15933	Tile Pipe.	Hinman	Western avenue.	Right of way C., St. L. & P. Ry.	3,352 23
15939	B. and T. Pipe.	Augusta	Rockwell.	Western avenue.	32,175 71
15933	do	Elston avenue.	Belmont avenue.	Warren avenue, etc., etc.	4,347 32
16003	Tile Pipe.	Fifty-second.	100 feet west of Wharton avenue	etc., etc.	3,983 76
16004	B. and T. Pipe.	West Lake.	Crawford avenue.	Hamlin avenue.	2,650 08
16027	Tile Pipe.	Evarts avenue.	Forty-seventh.	Forty-ninth.	1,349 30
16028	do	Oakdale avenue.	Southport avenue.	Perry.	1,349 30
16029	do	George.	Southport avenue.	Perry.	1,191 91
16039	do	Forty eighth.	Morgan.	Aberdeen	2,167 12
16040	do	Euclid avenue.	Thirtieth.	Devon avenue.	5,459 19
16041	Brick.	Vermont avenue.	Thirtieth.	Thirtieth.	2,167 12
16042	Tile Pipe.	Fischer avenue.	Grand avenue	Devon avenue.	8,106 74
16043	do	Carpenter.	Forty-eighth	Fifty-fourth.	2,167 12
16044	do	Charlton avenue	Grand avenue.	Devon avenue.	2,103 85
16047	do	Logan.	Halsted.	Wallace.	

16048	Tile Pipe.	Worthen avenue.	West Nineteenth.	West Twenty-first.	1,563 77
16053	do	Hart	Kinzle	245 feet north	805 50
16053	do	West Nineteenth.	California avenue.	Douglas Park boulevard	1,884 80
16054	do	Alley	North of Garfield boulevard from Wallace.	Union avenue.	957 38
16055	do	Carpenter.	Fifty-seventh.	Fifty-ninth.	2,598 44
16130	B. and Tile Pipe.	Fifty-third.	Lake Michigan	Drexel avenue.	16,399 18
16136	Tile Pipe.	Hamlin avenue.	West Ohio	West Chicago avenue.	7,249 70
16137	do	Grand avenue.	Armington avenue.	Bloomingtondale road.	8,158 55
16138	do	Grand avenue.	North avenue.	Bloomingtondale road.	8,214 26
16140	B. and Tile Pipe.	Ogden avenue.	Crawford avenue.	Richmond avenue.	17,853 95
16143	Tile Pipe.	Mead.	Grand avenue.	West Chicago avenue.	3,242 10
16150	do	Ridge avenue.	Lafin.	Peterson avenue	2,284 22
16191	Brick	Fifty-third.	Fifty-first.	Loomis	1,835 46
16515	Tile Pipe.	Prairie avenue.	Halsted.	Garfield boulevard	7,535 88
16520	do	Stearns	and Sewer System	Main	3,097 47
16522	Receiving Well and.	Pumping Works at Seventieth.	Crawford avenue.	Harding avenue	83,174 80
16529	Tile Pipe.	Metropolitan place.	Thirty-third.	Bross	707 50
16544	do	Yorktown	Washington avenue.	Talman avenue.	1,086 91
16552	do	Washburne avenue.	Thirty-fifth.	Thirtieth, etc., etc.	613 00
16602	Brick.	Oakley avenue.	West Ohio	Kinzle.	2,724 04
16621	Tile Pipe.	Harding avenue.	West Ohio.	West Chicago avenue.	2,940 65
16622	do	Harding avenue	Greenwood avenue.	120 east of Ellis avenue.	3,706 88
16625	do	Forty-sixth	Fifty-ninth	Sixty-first.	1,046 99
16647	do	Evans avenue.	Ashland avenue.	Wood	1,673 76
16648	do	Sixtieth.	Alley south of Church road.	Alley north of Ridge avenue.	3,029 18
16649	do	East Ravenswood Park.	Fifty-ninth.	Sixty-first.	2,697 37
16650	do	Wood	Crawford avenue.	Hamlin avenue.	1,671 69
16653	B. and Tile Pipe.	West Division.	Lincoln avenue	Perry	3,404 03
16730	Tile Pipe.	Wellington.	Wallace.	Thirtieth.	1,838 85
16740	do	Oakley avenue.	Cottage Grove avenue	Alley east of Union avenue.	2,898 73
16826	do	Forty-ninth.	West Nineteenth.	Prairie avenue	6,785 62
16827	do	Sixty-third	Lafin.	West Twenty-first.	980 19
16847	do	Albany avenue.	Ulman	Loomis	1,432 44
16848	Brick.	Fifty-fourth	West Twenty-second.	95 feet east of Fox.	720 26
16849	Tile Pipe.	Thirty third.	Augusta.	C., B. & Q. R.	972 33
16850	do	Albany avenue.	Hamburg	Grand avenue.	2,183 43
16851	do	Barclay	Seventy-first.	Ems.	646 82
16852	do	Leipzig	Fifty-first.	Seventy-third.	2,008 60
16853	do	Sherman.	Kedzie avenue, etc.	Alley north of Garfield boulevard	3,276 81
16854	do	Bishop.	Sixty-seventh.	West Nineteenth, etc.	3,799 17
16855	B. and Tile Pipe.	Ogden avenue.	West side of Stony Island avenue	Seventy first.	5,364 89
16856	Tile Pipe.	West side of Stony Island avenue			

## STATEMENT OF ASSESSMENTS FOR CONSTRUCTING SEWERS — CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
16857	Tile Pipe.	Sixty-ninth	Madison avenue	Alley north side of Sixty-ninth	\$ 2,869 77
16860	do	Park avenue	Centre	Everett	4,784 77
16861	do	Thirty-eighth	Ashtand avenue	Wood	1,734 34
16862	do	Thirty-fourth	185 ft. east of Marshfield avenue	100 feet north of South Chicago avenue	566 37
16863	Brick and T. P.	W. Side of Cottage Grove avenue	Sixty-sixth	Sherman	5,942 46
16864	Brick	Fifty-third	Union avenue	Alley east of Morgan	852 14
16865	Tile Pipe.	Fiftieth court	Halsted	Alley east of Morgan	1,688 60
16866	do	Fifty-fourth court	Wallace	Alley east of Union avenue	534 00
16867	do	Washington avenue	Centre	Everett	5,345 73
16868	do	Crawford avenue	Centre	Everett	5,040 24
17011	do	Ada	Fiftieth	Alley north of Fifty first	584 60
17012	do	Rhodes avenue	Sixty-seventh	Sixty-eighth	1,451 27
17013	do	Dobson avenue	Seventy-first	Seventy-third	2,099 35
17014	do	Greenwood avenue	Seventy-first	Seventy-third	2,401 40
17015	do	Vernon Park avenue	Barber's Irving Park Subdivision, etc., etc.		5,260 00
17016	do	Evans avenue, etc.	Langley avenue, etc.	Farwell avenue, etc.	8,955 48
17017	do	Wabash avenue	Sixty-seventh	Seventy-fifth	8,587 88
17018	Brick and T. P.	Michigan avenue	Sixty-seventh	Seventy-fifth	8,721 40
17019	Tile Pipe.	Sherman	Fifty-first	Fifty-fourth	2,898 00
17020	do	Cook	Fiftieth	Alley north of Fifty first	593 00
17021	do	May	Sixty-third	Sixty-seventh	2,840 04
17022	do	Noble avenue	Western avenue	Clybourn avenue	608 80
17023	do	Rhodes avenue	Seventy-first	Seventy-third	2,704 05
17024	do	St. Lawrence avenue	Seventy-first	Seventy-fifth	5,248 84
17174	do	Vincennes avenue	Sixty-seventh	Alley north of South Chicago avenue	868 71
17210	do	Sixty-ninth place	Madison avenue	Alley west of Stony Island avenue	2,132 05
17211	do	Vernon avenue	Seventy-first	Seventy-fourth	3,577 05
17212	do	Fifty-eighth	Centre	65 ft. west of Morgan	2,979 79
17219	do	Sheldon avenue	Irving Park boulevard	Everett avenue	2,557 88
17229	do	Sixty-ninth	Morgan	Loomis	7,642 08
17250	do	W. Side Railroad avenue	Seventy-third	50 ft. so. of cor. of ft. av. and Yates ave.	3,014 40
17259	Brick and T. P.	Sixty-first	Ashtand avenue	Wood	2,867 42
17268	Sewer (System)	E. Ravenswood Park, etc.	Ashtand avenue, etc.	Summerdale avenue, etc.	58,436 26
17277	Brick	W. Division	Crawford avenue	W. Forty-sixth	16,696 20
17298	Tile Pipe.	Marshfield avenue	Forty-third	Forty-fourth	1,141 25
17299	do	East side of Stony Island avenue	Sixty-seventh	Seventy-first	5,893 77

17800	B. and Tile Pipe	West side of Cottage Grove avenue.	Sixty-first.	Sixty-seventh.	12,902 40
17801	Sewer (system)	St. Lawrence avenue, etc.	Sixty-seventh.	Seventy-first.	53,806 94
17802	Tile Pipe	Carpenter.	Sixty-seventh.	Sixty-ninth.	1,480 10
17803	Sewer (system)	Southport avenue.	Bryn Mawr avenue.	Balmoral ave., etc.	5,753 14
17804	do	Wentworth avenue, etc.	Ninety-ninth, etc.	Halsted.	818,196 80
17805	Brick sewer.	Robey	South from S. branch Chicago riv.	Sixty-fifth, etc.	872,520 76
17806	Sewer (system)	Francisco avenue, etc.	Thomas avenue, etc.	Lee avenue, etc.	10,658 52
17807	T. P. sewer.	West side of Cottage Grove av.	P., Ft. W. & C. Ry.	Seventy-fifth.	3,856 27
17808	do	Calumet avenue.	Sixty-seventh.	480 feet north of Sixty-first.	11,779 73
17809	B. and T. P. sewer.	South Park avenue.	Sixty-seventh.	480 feet north of Sixty-first.	12,182 86
17810	T. P. Sewer.	Storms avenue.	P., Ft. W. & C. Ry.	Seventy-fifth.	4,239 70
17811	Brick sewer.	St. Lawrence avenue.	Sixty-third.	Sixty-seventh.	11,079 80
17812	do	Langley avenue.	Sixty-third.	Sixty-seventh.	10,479 25
17813	do	Evans avenue.	Sixty-third.	Sixty-seventh.	10,634 25
17814	do	Vincennes avenue.	Sixty-third.	Sixty-seventh.	3,168 44
17815	T. P. sewer.	East side of Cottage Grove ave.	P., Ft. W. & C. Ry.	Seventy-fifth.	8,800 42
17816	do	South Park avenue.	Seventy-first.	Seventy-fifth.	4,682 00
17817	Sewer (system)	Drexel avenue, etc.	Egandale ave., etc.	Seventy-fourth, etc.	10,224 07
17818	do	Greenwood avenue, etc.	Seventy-third.	Seventy-fourth.	7,428 86
17819	Tile Pipe.	Centre avenue.	Fifty-ninth.	Sixty-third.	2,869 59
17820	do	Vincennes avenue.	Seventy-first.	Seventy-fifth.	5,210 58
17821	do	Calumet avenue.	Seventy-first.	Seventy-fifth.	4,868 48
17822	B. and Tile Pipe.	Prairie avenue.	Sixty-seventh.	Seventy-ninth.	9,501 70
17423	Sewer (system)	Seventieth, etc.	Oglesby avenue, etc.	Addison avenue, etc.	9,746 43
17424	B. and Tile Pipe.	Prairie avenue, etc.	Sixty-third, etc.	Indiana avenue, etc.	18,354 75
17425	Brick.	Vernon avenue.	Sixty-third.	Sixty-seventh.	9,017 80
17426	do	Farwell avenue.	Indiana avenue.	Sixty-seventh.	10,403 60
17427	B. and Tile Pipe.	Bishop.	Brackett.	Seventy-fifth.	11,016 15
17428	Tile Pipe.	Lincoln avenue.	Fiftieth.	517 feet south of Fiftieth.	687 00
17429	Brick.	Sunnyside avenue, etc.	Western avenue.	Foster.	9,580 45
17430	Sewer (system)	Montrose boulevard.	Lincoln ave., etc.	Leland avenue, etc.	24,065 52
17431	Brick sewer.		Western avenue, etc.	Webster avenue, etc.	79,572 99
Total.					\$3,864,714 23

## STATEMENT OF ASSESSMENTS FOR LAYING PRIVATE DRAINS.

No. of Warr'nt	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14489	Drains	State	Sixty-fourth.	Sixty-eighth.	\$4,347 00
14495	do	Flournoy	Sacramento avenue.	Francisco.	485 00
14496	do	Kedzie avenue.	West North avenue.	Palmer square.	7,445 00
14557	do	North place.	Armitage avenue.	Northwest terminus.	108 00
14558	do	West Van Buren.	Kedzie avenue.	Central Park avenue.	2,688 00
14559	do	North avenue.	Tinkham avenue.	Grand avenue.	6,864 35
14560	do	Mosprat.	Thirty first.	Thirty fourth.	1,162 50
14561	do	Roscoe	Southport avenue.	Sheffield avenue.	1,979 50
14562	do	Hastings	Wood	Leavitt	1,069 50
14563	do	Champlain avenue.	Forty-ninth.	Fiftieth.	759 00
14564	do	Noble avenue.	Ashland avenue.	Sheffield avenue.	1,339 50
14565	do	Western avenue.	West Chicago avenue.	Thomas.	7,924 00
14566	do	Park avenue.	West Fortieth.	West Forty sixth.	6,712 00
14567	do	Irving avenue.	Thirteenth.	Fourteenth.	551 00
14568	do	Thirty seventh.	Halsted	Laurel.	831 50
14569	do	Thirty seventh court.	Halsted	Laurel.	780 50
14570	do	Hoyle avenue.	Belmont avenue.	Clybourn avenue.	1,662 50
14571	do	Clarence avenue.	Nellie avenue.	Grace.	420 00
14572	do	George	Halsted	Lincoln avenue.	2,320 50
14573	do	Lawndale avenue.	West Ohio	West Chicago avenue.	8,635 00
14574	do	Rokeby.	Addison.	Grace.	1,535 50
14575	do	Monticello avenue.	West Kinzie.	West Chicago avenue.	4,828 00
14576	do	Kedzie avenue.	West Twenty-second.	West Twenty-sixth.	2,896 00
14577	do	West Twenty-second.	Hamlin avenue.	Crawford avenue.	1,853 00
14578	do	Whipple.	West Twenty-second.	West Twenty-third.	610 50
14579	do	Carroll avenue.	West Fortieth.	West Forty-sixth.	5,022 00
14580	do	West Lake.	Crawford avenue.	West Forty-sixth.	6,864 00
14581	do	Melrose.	Western avenue.	Robey.	2,345 00
14582	do	Belmont avenue.	River.	Milwaukee avenue.	9,792 00
14583	do	Thirty-eighth.	Halsted	Laurel.	1,054 00
14584	do	Gordon.	Union avenue.	Stewart avenue.	465 00
14585	do	Homan avenue.	West Madison.	W. Harrison.	1,050 00
14586	do	Grace.	Sixty-third.	Sixty-fifth.	2,067 60
14587	do	Yorktown.	Thirty-fifth.	Canal.	1,209 00
14588	do	Everett.	Fifty-ninth.	Sixty first.	1,254 00
14589	do	Dyer.	Fifty-ninth.	Sixty first.	1,254 00

14590	Drains.	Butler.	Douglas avenue.	Egan avenue.	1,379 50
14591	do	Parnell avenue.	Thirty first.	Thirty-third.	214 50
14592	do	Green.	Fifty-fifth.	Fifty-sixth.	201 50
14593	do	Duncan avenue.	Eighty-third.	North to B. & O. R. R.	360 00
14604	do	Indiana avenue.	Forty-fifth.	Fifty first.	2,785 00
14605	do	Cottage Grove avenue.	Fifty first.	Fifty-ninth.	2,116 00
14606	do	Maryland avenue.	Sixty-third.	Sixty fifth.	689 50
14611	do	Buckingham place.	Western avenue.	West terminus.	490 50
14622	do	Evanston avenue.	Bryn Mawr avenue.	Thorndale avenue.	1,513 00
14628	do	Aberdeen.	North Clark.	Evanston avenue.	1,237 00
14638	do	Wood.	Fifty-ninth.	Sixty first.	1,853 00
14669	do	Parnellee.	Hoynes avenue.	Western avenue.	759 00
14670	do	Parnell avenue.	Thirty-seventh.	Egan avenue.	495 00
14671	do	Paulina.	Fifty ninth.	Sixty first.	1,254 00
14672	do	Oakley avenue.	Blue Island avenue.	Eighteenth.	379 50
14673	do	Southport avenue.	144.32 ft. north of Grand ave.	North terminus.	472 50
14674	do	Thirty-fourth court.	Halsted.	Laurel.	496 00
14675	do	Forty seventh.	State.	Drexel boulevard.	2,790 00
14682	do	Garfield avenue.	Lawrence avenue.	Clay.	1,103 50
14683	do	Harvard.	Seventy-third.	Seventy-fifth.	2,802 50
14684	do	Star.	Robertson avenue.	South terminus.	772 50
14685	do	Parnell avenue.	Douglas avenue.	Thirty-seventh.	444 00
14686	do	Huron.	Leavitt.	Western avenue.	3,989 50
14706	do	Sixty fourth.	Woodlawn avenue.	Stony Island avenue.	1,732 50
14707	do	Best avenue.	Wrightwood avenue.	Diversey.	647 50
14708	do	Centre avenue.	Fifty first.	Fifty-fifth.	2,601 00
14709	do	Monroe.	Fortieth.	Forty-sixth.	4,320 00
14710	do	Forty-eighth.	Ashland avenue.	Robey.	1,139 50
14711	do	Douglas avenue.	Western avenue.	California avenue.	2,416 00
14712	do	Sixty-first.	Ashland avenue.	Wood.	726 00
14713	do	Lime.	Twenty-seventh.	C. & A. R. R.	429 00
14714	do	Sixty-third.	Wallace.	Halsted.	925 00
14715	do	Bloom.	Thirty-fourth.	Thirty-eighth.	1,237 50
14716	do	Farrell.	Archer avenue.	Thirty-first.	294 50
14717	do	Elgin.	Purple.	Stewart avenue.	174 00
14718	do	Joseph.	Archer avenue.	Hickory.	297 00
14719	do	Lincoln.	Blue Island avenue.	Nineteenth.	296 00
14720	do	Sullivan court.	Lyman.	Thirty-first.	217 50
14721	do	Ferdinand.	Ashland avenue.	Paulina.	283 50
14722	do	Bonney avenue.	Twenty-sixth.	Thirtieth.	2,425 50
14755	do	Michigan terrace.	Fortieth.	Forty-first.	635 50
14775	do	Armitage avenue.	Kedzie avenue.	Columbia avenue.	9,284 00



## STATEMENT OF ASSESSMENTS FOR LAYING PRIVATE DRAINS—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14784	Drains.	Lawndale avenue.	Thirty-first.	Chicago river.	\$ 1,303 50
14789	do	Forty-fourth.	Winter.	Stewart avenue.	627 00
14790	do	Englewood avenue.	Halsted.	Wallace.	775 00
14818	do	Superior avenue.	Eighty-seventh.	Ninety-second.	2,800 00
14844	do	West Fifteenth.	Central Park avenue.	Hamlin avenue.	529 00
14845	do	West Ohio.	Homan avenue.	Harding avenue.	2,284 00
14846	do	West Harrison.	California avenue.	Kedzie avenue.	1,971 50
14847	do	Hamlin avenue.	West Chicago avenue.	West Kinzie.	6,167 25
14848	do	West Fourteenth.	Wood.	Irving avenue.	1,732 75
14857	do	Perry.	Diversey.	Graceland avenue.	4,441 25
14867	do	St. Louis avenue.	Ogden avenue.	West Twenty-second.	1,386 50
14904	do	Sixtieth.	Winter.	Halsted.	264 00
14905	do	Grand avenue.	Western avenue.	California avenue.	7,690 00
14906	do	Ashland avenue.	Fifty-ninth.	Sixty-third.	3,844 00
14907	do	Princeton avenue.	Root.	Forty-seventh.	1,336 50
14908	do	Byron.	Mozart.	Humboldt boulevard.	721 50
14909	do	Forty-first place.	Twenty-sixth.	Twenty-eighth.	741 00
14910	do	Fortieth place.	Twenty-sixth.	Twenty-eighth.	741 00
14911	do	Forty-second place.	Twenty-sixth.	Twenty-eighth.	741 00
14912	do	Winter.	Sixty-ninth.	Seventy-first.	752 50
14913	do	Lexington avenue.	Midway Plaisance.	Sixty-first.	610 50
14914	do	Bonney avenue.	Colorado avenue.	West Harrison.	245 00
14915	do	Purple.	Twentieth.	Archer avenue.	280 00
14916	do	Thirty-seventh.	Ashland avenue.	Western avenue.	2,512 00
14917	do	Union place.	West Twenty-second.	Union.	130 50
14918	do	Kedzie avenue.	Twenty-sixth.	Chicago river.	3,690 00
14919	do	Carroll avenue.	Kedzie avenue.	950 feet west.	1,036 00
14920	do	Webster avenue.	Seventy-third.	Seventy-fifth.	2,025 00
14921	do	Atlantic.	Garfield boulevard.	Fifty-eighth.	462 00
14922	do	Thirty-second.	Portland avenue.	Emerald avenue.	561 00
14923	do	East driveway Drexel boulevard.	Fiftieth.	Fifty-first.	517 50
14924	do	Myrtle.	Birch.	Taylor.	148 50
14925	do	Morgan.	Sixty-third.	Sixty-fifth.	909 50
14926	do	Forty-eighth.	Ellis avenue.	Drexel boulevard.	314 50
14925	do	Larabee.	Fullerton avenue.	Deming court.	429 00
14966	do	Grand avenue.	Clark.	Evanston avenue.	1,739 50

14971	Drains	Forty-seventh.	Ellis avenue.	Drexel boulevard.	314 50
15040	do	East driveway Drexel boulevard.	Forty-seventh.	198 feet south of Forty-eighth.	807 50
15041	do	Elston avenue.	Snow.	Belmont avenue.	6,784 00
15042	do	Thirty third.	Archer avenue.	Oakley avenue.	1,128 50
15043	do	Augusta.	California avenue.	Grand avenue.	1,878 50
15044	do	Forty-fifth.	Grand boulevard.	Drexel boulevard.	1,642 50
15045	do	Ogden avenue.	Crawford avenue.	West Forty-sixth.	6,688 00
15046	do	Twenty-first.	Archer avenue.	Stewart avenue.	315 00
15047	do	Lunn court.	Western avenue.	West terminus.	247 50
15048	do	Sixty-first.	Halsted.	Winter.	420 00
15049	do	Gunn (Sixtieth court).	Winter.	Halsted.	511 50
15106	do	Sixtieth.	South Park avenue.	Cottage Grove avenue.	181 50
15112	do	Prairie avenue.	Fifty-first.	West Fifty.	4,474 25
15118	do	Chicago avenue.	California avenue.	West Fortieth.	11,420 00
15126	do	Lawrence avenue.	Sheffield avenue.	Lake Michigan.	971 50
15127	do	Campbell avenue.	West Twelfth.	Ogden avenue.	578 00
15130	do	Calumet avenue.	Fifty-first.	Fifty-fifth.	8,165 00
15170	do	Emerald avenue.	Egan avenue.	Forty-seventh.	1,212 75
15180	do	Madison.	Crawford avenue.	West Forty-sixth.	9,471 00
15207	do	Hall.	Diversey.	Oakdale avenue.	247 50
15207	do	Boulevard place.	Vincennes avenue.	Grand boulevard.	259 00
15220	do	Morgan.	Garfield boulevard.	Fifty-seventh.	1,171 50
15247	do	Sangamon.	Garfield boulevard.	Fifty-seventh.	495 00
15353	do	Grand avenue.	California avenue.	Crawford avenue.	10,861 50
15367	do	Fifty-fourth court.	Halsted.	Morgan.	1,221 00
15465	do	Emerald avenue.	Egan avenue.	Forty-seventh.	1,434 00
15485	do	Green.	Fifty-sixth.	Fifty-seventh.	495 00
15514	do	Talman avenue.	Hirsh.	North avenue.	943 50
15518	do	Flournoy.	Sacramento.	Albany avenue.	465 00
15519	do	West Sixteenth.	Central Park avenue.	Hamlin avenue.	1,044 50
15520	do	School.	Evanston avenue.	Halsted.	807 00
15640	do	Thirty-eighth.	Halsted.	Laurel.	389 00
15641	do	Parnell avenue.	Thirty-third.	Douglas avenue.	1,138 50
15668	do	Lewis.	Diversey.	Wrightwood avenue.	206 00
15671	do	Robey.	Archer avenue.	Egan avenue.	1,813 50
15775	do	Prairie avenue.	Forty-second.	Fifty-first.	1,887 00
15784	do	Union.	Sixty third.	Sixty-seventh.	1,100 50
15796	do	Sheridan.	North avenue.	Bloomingtondale road.	759 00
15803	do	Evans avenue.	Forty-seventh.	Forty-ninth.	712 00
15822	do	Centre avenue.	Fifty fifth.	Fifty-seventh.	1,072 50
15918	do	Lexington avenue.	Sixty third.	Sixty-fifth.	1,545 50
	do	Green.	Fifty ninth.	Sixty-third.	1,680 00

## STATEMENT OF ASSESSMENTS FOR LAYING PRIVATE DRAINS—CONTINUED.

No. of Warr'nt	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
15919	Drains	Centre avenue.	Fifty-ninth.	Sixty-third.	\$ 2,870 00
15920	do	La Salle	Forty-seventh	Garfield boulevard.	1,725 00
15921	do	West Erie.	Western avenue.	Campbell avenue.	2,257 00
15922	do	Forty-fourth.	State	Wentworth avenue.	132 00
15923	do	Peoria.	Fifty-first	Fifty-fifth.	1,069 50
15924	do	Sherman.	Wilson.	Forty-sixth.	825 50
15925	do	Lafin	Forty-seventh	Forty-ninth	292 50
15926	do	Sacramento avenue.	Division	Augusta.	740 00
15927	do	Courtland	Leavitt.	Oakley avenue.	212 00
15928	do	Central Park avenue.	Twenty-sixth.	Thirty-second.	8,776 00
15943	do	Park avenue.	Hamlin avenue.	Crawford avenue.	1,116 00
15944	do	Humboldt boulevard.	Western avenue.	Milwaukee avenue.	2,885 00
15945	do	West Harrison.	Kedzie avenue.	Central Park avenue.	3,056 00
15946	do	Stony Island avenue.	Fifty-sixth street.	Fifty-ninth.	1,764 00
15947	do	Myrtle avenue.	Milwaukee avenue.	Diversey.	1,935 00
15948	do	Aberdeen.	Fifty-fifth.	Fifty-seventh.	1,181 50
15949	do	Clifton Park avenue.	Douglas Park boulevard.	Ogden avenue.	2,753 00
15950	do	Stony Island avenue.	Sixtieth.	Sixty-seventh.	8,034 00
15982	do	Wharton avenue	Fifty-first.	Fifty-fifth	2,758 00
15989	do	Grand avenue.	Clark.	Ridge avenue.	782 00
15997	do	Lexington.	Rockwell.	California avenue.	98 25
15998	do	Troy.	West Kinzie.	West Chicago avenue.	2,277 00
16070	do	Clifton avenue.	Wellington	Roscoe.	511 50
16107	do	Ambrose.	Oakley avenue.	Western avenue.	658 00
16108	do	Sherman.	Sixty-ninth.	Seventy-first.	1,155 50
16109	do	Union	Sixty-ninth.	Seventy-first.	775 50
16110	do	St. Louis avenue.	Ogden avenue.	Twelfth	2,855 00
16111	do	Homer.	Hoyle avenue	Oakley avenue.	818 50
16148	do	Colorado avenue	Douglas Park boulevard.	Crawford avenue.	469 50
16244	do	North Clark.	Lawrence avenue.	Webster avenue.	1,321 00
16245	do	Halsted.	Sixty-ninth.	Seventy-ninth.	16,840 00
16246	do	Forquer.	Central Park avenue.	Lawndale avenue.	744 00
16247	do	Homan avenue.	Twelfth.	Twenty-second.	4,068 00
16248	do	May.	Fifty-first.	Fifty-fourth.	2,884 00
16249	do	Aberdeen	Fifty-first.	Fifty-fourth.	1,740 00
16250	do	Washenaw avenue.	Chicago avenue.	Division.	728 00

16251	Drains	Hickling avenue	Halsted	Morgan	726 00
16252	do	West Taylor	Central Park avenue	Lawndale avenue	916 50
16274	do	Wall	Thirty-first	Springer	379 00
16383	do	Forty-fifth court	State	Clark	203 00
16384	do	Duncan place	Stewart avenue	School	132 00
16385	do	Thirty-second	Ashland avenue	Paulina	264 00
16386	do	Thirty-second	Ullman	Benson	434 00
16387	do	Nebraska	Bloomington Road	Palmer place	1,768 00
16388	do	Emerald avenue	Sixty-ninth	Seventy-first	888 50
16389	do	Kinzie	Paulina	Oakley avenue	927 50
16390	do	Sagamon	Fifty-ninth	Sixty-third	2,115 00
16391	do	Aberdeen	Fifty-ninth	Sixty-third	1,722 00
16413	do	Fifty-first court	Halsted	Morgan	542 50
16414	do	Centre avenue	Fifty-seventh	Fifty-ninth	1,193 50
16415	do	Thirty-third	Ashland avenue	Wood	626 00
16416	do	Hull avenue	Fillmore	Twelfth	498 00
16417	do	Sixty-seventh	Halsted	Honore	217 00
16418	do	Breslau	Ems	Hamburg	262 50
16419	do	Thirty-fourth court	Laurel	Ullman	522 00
16420	do	Thirty-fourth	Ashland avenue	Wood	573 50
16421	do	Hamlin avenue	Sixteenth	Eighteenth	1,500 00
16422	do	Thirty-third court	Ashland avenue	Wood	971 50
16423	do	Morgan	Fifty-first	Fifty-fourth	1,088 50
16424	do	Rebecca	Western avenue	California avenue	2,090 00
16565	do	Twenty-fourth	Fortieth	Forty-first	804 00
16566	do	Thirty-sixth	Halsted	South Canal	667 50
16567	do	Milwaukee avenue	Logan square	Montrose boulevard	23,040 00
16568	do	Forty-first	Twenty eighth	C. B. & Q. R. R.	2,147 00
16569	do	Clifton	Kellogg	Fortieth	1,911 00
16570	do	Forty-second	Twenty-eighth	C. B. & Q. R. R.	2,014 00
16573	do	Seventy-first	Cottage Grove avenue	South Park avenue	1,198 50
16599	do	Diversey	The River	Kedzie avenue	3,895 50
16600	do	Hoffman avenue	Milwaukee avenue	Diversey	2,885 00
16608	do	Albany avenue	Nineteenth	Ogden avenue	627 00
16612	do	Twenty-sixth	Fortieth	Forty-fourth	1,806 00
16613	do	Twenty-fifth	Kellogg avenue	West Fortieth	2,058 25
16614	do	Pearl	Kellogg avenue	Crawford avenue	2,586 25
16640	do	Twenty-sixth	Western avenue	Sacramento avenue	1,864 00
16652	do	Washington	Hamlin avenue	West Fortieth	1,485 00
16654	do	Maplewood avenue	North avenue	Bloomington road	1,846 50
16655	do	Harvard	Campbell avenue	California avenue	1,280 50
16656	do	Carpenter	Fifty-first	Fifty-fourth	2,175 00

## STATEMENT OF ASSESSMENTS FOR LAYING PRIVATE DRAINS—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
16657	Drains.	Hamlin avenue.	Twenty-sixth.	Thirty-first.	\$ 3,152 00
16658	do	Loomis	Forty-seventh.	Garfield boulevard.	3,825 00
16659	do	Mead.	North avenue.	Armitage avenue.	1,989 00
16660	do	Central Park avenue.	North avenue.	Armitage avenue.	2,124 00
16661	do	Prairie avenue.	Fifty-seventh.	Thirty-first.	4,576 00
16662	do	Nelson.	Southport avenue.	Racine avenue.	259 00
16663	do	Julian court.	State.	South terminus.	130 50
16664	do	St. George's court.	Milwaukee avenue.	State.	130 50
16665	do	Kimbell avenue.	North avenue.	Armitage avenue.	216 00
16666	do	Point.	California avenue.	Armitage avenue.	2,125 00
16667	do	Atlantic.	Forty-seventh.	Garfield boulevard.	684 50
16668	do	Francis place.	California avenue.	Point.	1,162 50
16669	do	Sixty-eighth.	State.	Point.	188 50
16670	do	Attrill.	Milwaukee avenue.	Wentworth avenue.	370 00
16671	do	Grenshaw.	Kedzie avenue.	State.	94 50
16672	do	Grenshaw.	Spaulding avenue.	Spaulding avenue.	391 50
16673	do	Lexington.	Central Park avenue.	Homan avenue.	573 50
16674	do	Frankfort.	Leavitt.	Lawndale avenue.	726 00
16675	do	Hancock.	North avenue.	Western avenue.	429 00
16676	do	Hirsch.	Leavitt.	Armitage avenue.	2,209 00
16677	do	Dexter.	Union avenue.	California avenue.	1,072 50
16680	do	May.	I wenth.	Stewart avenue.	589 00
16681	do	Sixty-ninth.	Woodlawn avenue.	Twenty-second.	620 00
16682	do	Seventieth.	Madison avenue.	L. C. R. R.	799 50
16683	do	Grant place.	Sixty-ninth.	I. C. R. R.	662 50
16684	do	Springer avenue.	Laurel.	Seventieth.	259 00
16685	do	Ferdinand.	Armour.	Waterville.	511 50
16686	do	Centre avenue.	Forty-seventh.	Noble avenue.	471 50
16687	do	Ellis avenue.	Fifty-sixth.	Fifty-first.	1,694 00
16688	do	Dearborn.	Garfield boulevard.	Fifty-ninth.	1,720 50
16689	do	Lincoln.	Thirty-fifth.	Alley south of Cloud court.	165 00
16690	do	Forty-eighth.	Madison avenue.	Thirty-ninth.	1,554 00
16691	do	Coblentz.	Leavitt.	Woodlawn avenue.	372 00
16692	do	Dudley.	Hervey.	Western avenue.	315 00
16693	do	Twenty first.	Western avenue.	Armitage avenue.	165 00
16694	do	Cook.	Blanch avenue.	Pan-Handle Ry.	341 00
16695	do			Sixty-third.	937 00

16698	Drains	Crawford avenue.	Kinzie.	Madison.	1,794 50
16710	do	Homer.	Western avenue.	Washtenaw avenue.	648 50
16780	do	La Salle.	Garfield boulevard.	Cloud court.	728 00
16884	do	Balmoral avenue.	Clark.	Southport avenue.	825 00
16895	do	Fifty-second.	Cottage Grove avenue.	Drexel avenue.	518 00
16898	do	Fifty-fourth.	Lake avenue.	Woodlawn avenue.	1,017 50
16887	do	Eugenia.	Sixty-sixth.	Sixty-seventh.	162 00
16898	do	North Fifty-ninth.	Clark.	Southport avenue.	1,128 50
16930	do	Sacramento avenue.	Thirty-eighth.	Thirty-ninth.	348 00
16940	do	Emerald avenue.	Fifty-sixth.	Fifty-ninth.	1,820 00
16841	do	Sherman.	Fifty-sixth.	Fifty-ninth.	1,880 00
16842	do	Farragut avenue.	Clark.	Southport avenue.	907 50
16843	do	Joseph.	238 feet east of Grant avenue.	Pierson.	2,016 00
16844	do	Blanchard	Thirty-fifth.	Thirty-ninth.	2,030 00
16845	do	Central Park avenue.	Chicago avenue.	North avenue.	4,826 00
16846	do	California avenue.	Thirty-ninth.	I. & M. canal.	2,576 00
16858	do	Cornelia.	Milwaukee avenue.	Point	573 50
16859	do	Fifty-third.	Halsted.	Centre avenue.	790 50
16869	do	Ballou.	North avenue.	Armitage avenue.	2,016 00
16870	do	Hoyne avenue.	Roscoe.	Belmont avenue.	775 50
16871	do	Fifty-fourth.	Halsted.	Centre avenue.	565 50
16926	do	Wolfram.	Southport avenue.	Herndon.	280 00
16929	do	Forty fourth.	Grand boulevard.	St. Lawrence avenue.	402 50
16930	do	Sixty-fifth.	State.	Wentworth avenue.	304 50
16931	do	Berwyn avenue.	Clark.	Southport avenue.	891 00
16932	do	Werder.	Rockwell.	California avenue.	744 00
16933	do	Summerdale avenue.	Clark.	Southport avenue.	858 00
16934	do	Addison avenue.	Sixty-ninth.	Seventy-first.	1,763 00
16936	do	Fox.	Thirty-first.	Waterville.	511 50
16937	do	Cook.	Sixtieth.	Sixty-first.	627 00
16938	do	Armour avenue.	Garfield boulevard.	Alley south of Cloud court.	387 50
16939	do	Cook.	Fifty-fifth.	Fifty-ninth.	2,496 00
16940	do	Fiftieth.	Vincennes avenue.	Cottage Grove avenue.	1,395 00
16941	do	Justine.	Forty-seventh.	Forty-ninth.	333 50
16942	do	Marshfield avenue.	Thirty-fourth.	Thirty-seventh.	805 00
16943	do	James avenue.	Laurel.	Benson.	462 00
16944	do	Fischer avenue.	Grand avenue.	Devon avenue.	1,628 00
16945	do	Mill.	Ashland avenue.	Paulina.	165 00
16946	do	Euclid avenue.	Grand avenue.	Devon avenue.	1,828 00
16947	do	Twenty-fifth.	California avenue.	Kedzie avenue.	1,872 00
16948	do	Charlton avenue.	Grand avenue.	Devon avenue.	1,628 00
17036	do	Sixty-sixth court.	Stewart avenue.	Honore.	275 50

## STATEMENT OF ASSESSMENTS FOR LAYING PRIVATE DRAINS—CONTINUED.

No. of WATER	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
17028	Drains	Cornelia	Clark	Racine avenue.	\$ 279 00
17029	do	Morgan	Fifty-seventh.	Sixty-third.	2,940 00
17030	do	Carpenter	Fifty-ninth.	Sixty-third.	1,785 00
17031	do	Ward	Clybourn avenue.	Fulton avenue.	495 00
17032	do	Lubeck	Robey	Western avenue.	1,033 50
17033	do	Perry avenue	Milwaukee avenue.	Fulton avenue.	925 00
17034	do	Maple	Wright	Wallace	403 00
17035	do	Balmoral avenue	East Ravenswood Park	Clark	1,036 00
17036	do	Carpenter	Garfield Boulevard.	Fifty-ninth.	2,250 00
17037	do	May	Fifty-fifth.	Fifty-ninth.	2,286 00
17038	do	Fiftieth	Union	Morgan	1,600 00
17039	do	Bishop	Forty-seventh.	Forty-ninth.	297 00
17040	do	Mitchell avenue.	West North avenue.	Bloomington Road	647 50
17041	do	Norman avenue.	West North avenue.	Bloomington Road	437 50
17042	do	Thirty-third	Archer avenue	Robey	429 00
17043	do	May	Diversey	Wrightwood avenue.	407 00
17044	do	Rascher avenue.	East Ravenswood Park.	Clark	925 00
17045	do	Summerdale avenue.	East Ravenswood Park.	Clark	1,054 50
17046	do	Pine	East Ravenswood Park.	Ashland avenue.	1,554 00
17047	do	Walnut	East Ravenswood Park.	Clark	1,424 50
17048	do	North Fifty-ninth.	East Ravenswood Park.	Clark	1,554 00
17049	do	School	Lincoln avenue.	Sheldon avenue.	630 00
17050	do	Wright	North Fifty-ninth.	Claremont avenue.	1,628 00
17051	do	East Ravenswood Park	North Fifty-ninth.	Claremont avenue.	990 00
17052	do	Claremont avenue.	East Ravenswood Park.	Clark	925 00
17053	do	Oakdale avenue.	Sheffield avenue.	Racine avenue.	880 00
17054	do	Clarkson avenue.	Bloomington Road.	Palmer place	1,579 50
17055	do	Aberdeen	Fifty seventh.	Fifty-ninth.	1,240 00
17056	do	Ashland avenue.	North Fifty-ninth	Claremont avenue.	2,196 00
17057	do	Union	Fifty-sixth.	Fifty-ninth.	1,405 00
17205	do	Grant avenue.	Thirty-fifth.	Thirty-ninth.	2,016 00
17206	do	Fifty-ninth.	State	Ashland avenue.	4,320 00
17207	do	Haven.	Shields avenue	Stewart avenue.	189 00
17216	do	Sixty-fifth	Stewart avenue.	Honore.	522 00
17239	do	Grace.	Lincoln avenue.	Southport avenue.	1,560 00
17240	do	Talman avenue.	Lake	C. & N.-W. Ry	550 00

17341	Drains	Eighteenth	Western avenue	California avenue	2,158 00
17342	do	West Ohio	Hamlin avenue	Avers avenue	445 76
17343	do	South Chicago avenue	Ninety-seventh	Ninety-second	4,851 00
17344	do	Lawndale avenue	West Sixteenth	Ogden avenue	1,905 00
17345	do	Fleetwood	North avenue	Blackhawk	755 50
17346	do	Archer avenue	Western avenue	Thirtieth	1,304 00
17347	do	Moore	Wood	Douglas Park boulevard	5,020 00
17348	do	Oakley avenue	Thirty-sixth	Archer avenue	124 00
17349	do	Thirty-sixth	Oakley avenue	Western avenue	841 00
17350	do	Indiana avenue	Fifty-first	Fifty-fifth	2,610 50
17351	do	Thirty-eighth	Hart	Pierson	2,310 00
17352	do	Kinzie	May	Paulina	320 00
17353	do	Albany avenue	Kinzie	Chicago avenue	1,885 75
17354	do	Fifty-sixth	State	South Park avenue	1,440 00
17355	do	Noble avenue	Ashland avenue	Wood	1,036 00
17356	do	Forty-third	Ashland avenue	Goodspeed	668 50
17357	do	West Indiana	Monticello avenue	West Fortieth	1,480 00
17358	do	Shields avenue	Fifty-fifth	Fifty-eighth	1,023 00
17359	do	Evansston avenue	Grand avenue	Devon avenue	1,768 00
17360	do	Justine	Fifty-fifth	Sixty-third	4,620 00
17361	do	Hoyne avenue	Archer avenue	Thirtieth	1,817 50
17362	do	Hoyne avenue	Archer avenue	Thirtieth	223 00
17363	do	Throop	Fifty-fifth	Sixty-third	4,267 25
17364	do	Long John	Archer avenue	Thirtieth	1,888 00
17365	do	Thirty-ninth	Ashland avenue	Robey	3,145 00
17366	do	Forty-second	Wallace	School	474 50
17367	do	May	Fifty-ninth	Sixty-third	2,142 00
17451	TOTAL				\$ 610,961 01

## STATEMENT OF ASSESSMENTS FOR WATER SERVICE PIPES.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14468	W.S. Pipes	Champlain avenue	Forty-seventh	Fiftieth	\$2,947 50
14594	do	Central Park avenue	West Ohio	West Lake	1,792 50
14595	do	Dearborn	Forty-third	Forty seventh	3,240 00
14596	do	Sixty-second	Stony Island avenue	I. C. R. R.	607 50
14597	do	Wendell ave.	Eighty-second	Eighty-third	742 50
14598	do	State	Sixty-fourth	Sixty-eighth	3,648 00



## STATEMENT OF ASSESSMENTS FOR WATER SERVICE PIPES—CONTINUED.

No. of Warr-nt	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14599	W. S. Pipes.	Eighty-eighth place.	South Park avenue.	Dauphin Park.	\$4,642 00
14603	do	Central Park avenue.	West Harrison.	Douglas Park boulevard.	1,878 50
14608	do	Buckingham place.	Evanton avenue.	Western terminus.	774 50
14627	do	Dauphin avenue.	Eighty-seventh.	Ninety-third.	2,666 00
14628	do	Forty-fourth.	Cottage Grove avenue.	Drexel boulevard.	225 00
14629	do	Eighty-eighth.	South Park avenue.	Ill. Cent. R. R.	4,642 00
14630	do	Eighty-ninth place.	South Park avenue.	Dauphin avenue.	4,400 00
14631	do	Ninetieth.	South Park avenue.	I. C. R. R.	4,334 00
14632	do	Eighty-ninth.	South Park avenue.	I. C. R. R.	4,598 00
14633	do	Ninety-first.	Cottage Grove avenue.	I. C. R. R.	188 00
14634	do	Ninetieth place.	South Park avenue.	Dauphin avenue.	4,290 00
14635	do	Forty-first.	State.	Grand boulevard.	562 50
14636	do	Grace avenue.	Sixty-third.	Sixty-fifth.	1,247 00
14664	do	Sixty-fourth.	Woodlawn avenue.	Stony Island avenue.	1,012 50
14665	do	Forty-seventh.	Cottage Grove avenue.	Drexel boulevard.	382 50
14666	do	Woodlawn avenue.	Sixty-fourth.	Sixty-fifth.	900 00
14667	do	Forty-second place.	Vincennes avenue.	St. Lawrence avenue.	495 00
14692	do	Jan Huss avenue.	Kinzie.	Chicago avenue.	3,234 00
14694	do	Oakley avenue.	Blue Island avenue.	Eighteenth.	634 50
14695	do	Kedzie avenue.	North avenue.	Palmer square.	4,132 50
14696	do	Avers avenue.	Kinzie.	Chicago avenue.	2,857 50
14697	do	Twentieth.	Clark.	Purple.	472 50
14698	do	Thirty-second.	Portland avenue.	Emerald avenue.	352 50
14699	do	Purple.	Archer avenue.	I'wentieth.	236 50
14700	do	North avenue.	Tinkham avenue.	Grand avenue.	6,864 00
14701	do	Hamlin avenue.	Ohio.	Chicago avenue.	3,386 50
14702	do	Lexington avenue.	Midway Plaisance.	Sixty-first.	816 00
14703	do	Homer.	Robey.	Hoyle avenue.	337 50
14704	do	Central Park avenue.	Chicago avenue.	Central Park boulevard.	2,854 00
14705	do	I'wenty-first.	Archer avenue.	Stewart avenue.	720 00
14741	do	Forty-eighth.	Cottage Grove avenue.	Drexel boulevard.	382 50
14753	do	Drake avenue.	Ohio.	Chicago avenue.	1,800 00
14801	do	Dearborn.	Forty-seventh.	Fifty-fifth.	7,744 50
14802	do	Forty-fourth.	State.	St. Lawrence avenue.	1,062 00
14814	do	Wabash avenue.	Twenty-second.	Fifty-fifth.	15,153 00
14849	do	Seventy-fourth.	Yates avenue.	Bond avenue.	757 00

14850	W. S. Pipes	Evans avenue.	Forty-seventh	Forty-ninth	1,492 50
14864	do	Lexington avenue.	Sixty-third	Sixty-fifth	909 50
14873	do	Lime	Twenty-seventh	C. & A. R. R.	250 50
14885	do	Cornelia	Lincoln avenue	Southport avenue	495 00
14886	do	Ruble	Sixteenth	Eighteenth	225 00
14897	do	Hamlin avenue.	Twenty-sixth	Twenty-seventh	1,090 00
14888	do	Spaulding avenue.	Ogden avenue.	Twelfth	8,520 00
14889	do	Berteau	Clark	Ashland avenue.	196 00
14890	do	West Twenty-first.	Johnson	Centre avenue.	1,665 00
14891	do	Roscoe.	Clark	Halsted	1,292 50
14892	do	Troy	Kinzie	Chicago avenue	2,750 00
14898	do	Lawndale avenue.	Ohio	Chicago avenue.	2,299 50
14894	do	Butler	Thirty-first	Thirty-third	235 00
14895	do	Sullivan court.	Lyman	Thirty-first	180 50
14896	do	Johnson avenue.	Twenty-seventh	Twenty-eighth	410 00
14897	do	Lunn court.	Western avenue	Terminus	292 50
14898	do	Lawndale avenue.	West Twenty-second	C., B. & Q. R. R.	141 00
14899	do	West Polk.	Campbell avenue.	Kedzie avenue	2,187 50
14900	do	Illinois	St. Clair	East 1,500 feet.	848 00
14901	do	Harvard	California avenue.	Kedzie avenue.	2,187 50
14902	do	Fillmore	California avenue.	Kedzie avenue.	1,895 00
14908	do	Parnell avenue.	Thirty-first	Thirty-third	298 50
14931	do	Sixty-third	Wallace	Halsted	1,350 00
14978	do	Western avenue.	Fullerton avenue.	Belmont avenue	5,504 00
14976	do	Paxton avenue.	Seventy-first	Seventy-fifth	2,160 25
15050	do	Irving avenue.	West Thirtieth	West Fourteenth	885 00
15051	do	Fifty-sixth	Blanchard avenue.	Hart avenue.	198 00
15052	do	Hastings	Wood	Leavitt	1,805 00
15053	do	Fifty-third	State	School	427 50
15054	do	Sixtieth	Halsted	Centre avenue	670 00
15055	do	Moffat	Western avenue.	Rockwell	450 00
15056	do	Weed	Clybourn avenue.	Hawthorn avenue	1,215 00
15057	do	Sixty-first	Halsted	Centre avenue	2,187 50
15058	do	Homan avenue.	Central Park boulevard	Washington boulevard	1,215 00
15059	do	Sixty-third	Halsted	Centre avenue	2,992 00
15060	do	Sixty-second	Halsted	Centre avenue	742 50
15061	do	Thome avenue	Clark	Southport avenue	1,665 00
15062	do	Southport avenue	Grand avenue.	144 ft. north of Evanston avenue	945 00
15063	do	Gage court.	Hart avenue.	Western avenue	892 50
15064	do	Ernst avenue.	Clark	Southport avenue	1,665 00
15065	do	Sawyer avenue.	Twelfth	Douglas Park avenue	1,147 50
15066	do	Michigan terrace.	Fortieth	Forty-first	702 50

## STATEMENT OF ASSESSMENTS FOR WATER SERVICE PIPES—CONTINUED.

No. of Warr'nt	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
15067	W. S. Pipes	Forty-first	Lake avenue	Michigan terrace	\$ 329 00
15068	do	Mosprat.	Thirty-first	Thirty-fourth	1,597 50
15069	do	Paulina	Clybourn avenue	Wrightwood avenue	1,552 50
15070	do	Kinney avenue	Seventy-first	Seventy-third	2,115 00
15071	do	West Harrison	California avenue	Kedzie avenue	2,992 50
15072	do	Sixty-fifth	Wallace	Halsted	1,642 50
15073	do	Parnell ave.	Thirty-fifth	Thirty-seventh	562 50
15074	do	Peoria	Fifty-fifth	Fifty-seventh	1,260 00
15075	do	Wrightwood avenue	Evanston R. R.	Southport avenue	765 00
15076	do	West Thirty-fourth	Archer avenue	Western avenue	742 50
15077	do	South Park avenue	Eighty-seventh	Ninety-first	360 00
15078	do	Palmer avenue	Seventy-first	Seventy-third	2,070 00
15079	do	Yorktown	Thirty-fifth	I. & M. Canal	855 00
15080	do	Van Buren	Homan avenue	Central Park avenue	1,237 50
15081	do	West Monroe	West Fortieth	West Forty-sixth	6,338 00
15082	do	Perry	Diversey	Graceland avenue	5,478 00
15083	do	George	Halsted	Southport avenue	4,290 00
15084	do	Noble avenue	Ashland avenue	Sheffield avenue	2,745 00
15085	do	Forty-Fifth	Grand Boulevard	Drexel Boulevard	1,350 00
15086	do	School	Evanston avenue	Halsted	1,080 00
15087	do	West Huron	Leavitt	Western avenue	1,529 50
15088	do	Kedzie avenue	Twenty-second	Twenty-sixth	3,476 00
15089	do	Carroll avenue	Kedzie avenue	950 feet West	1,260 00
15090	do	Everts avenue	Fifty-ninth	Sixty-first	1,620 00
15091	do	Wood	Fifty-ninth	Sixty-first	1,777 50
15092	do	Paulina	Fifty-ninth	Sixty-first	1,665 00
15093	do	Sixty-first	Wood	Ashland avenue	787 50
15095	do	Homan avenue	Madison	Harrison	1,805 00
15096	do	Warren avenue	Garfield Park	Fortieth	1,215 00
15097	do	Sixty-third	Sherman	Winter	450 00
15098	do	Almond	Ashland avenue	Taylor	117 50
15099	do	Paulina	Belmont avenue	Roscoe	141 00
15100	do	Dryer street (Marshfield avenue)	Fifty-ninth	Sixty-first	1,710 00
15101	do	West Fortieth	Twenty-sixth	Twenty-eighth	855 00
15102	do	West Forty-first	Twenty-sixth	Twenty-eighth	855 00
15111	do	Calumet avenue	Fifty-First	Fifty-fifth	3,744 25

15116	W. S. Pipes.	Prairie avenue.	Fifty-first.	Fifty-fifth.	4,703 00
15119	do	Paxton avenue.	Seventy-fifth.	Seventy-ninth.	8,763 00
15129	do	Indiana avenue.	Forty-fifth.	Fifty-first.	2,870 75
15131	do	Fifty-third.	Lake Michigan.	Cottage Grove avenue.	3,271 25
15171	do	Melrose.	Robey.	Racine avenue.	5,500 00
15172	do	Grand avenue.	Clark.	Evanston avenue.	4,209 00
15173	do	Ogden avenue.	Twenty-second.	Forty-second.	8,354 00
15174	do	Eighty-seventh.	L. C. R.	South Park avenue.	4,642 00
15175	do	Ninety-first.	Cottage Grove avenue.	South Park avenue.	4,268 00
15179	do	Cottage Grove avenue.	Seventy-first.	Ninety-fifth.	24,750 50
15185	do	Aberdeen.	Fifty-first.	Fifty-seventh.	4,098 00
15186	do	Forty-first (Fairmount avenue).	Twenty-eighth.	C., B. & Q. R. R.	2,846 00
15188	do	Stearns.	Halsted.	Main.	1,552 50
15189	do	Adelaide court.	Fairmount avenue.	Forty-second.	198 00
15190	do	Forty-second place.	Twenty-sixth.	Twenty-eighth.	810 00
15191	do	Richmond avenue.	Humboldt boulevard.	Diversey.	1,685 00
15208	do	Turner avenue.	Twenty-first.	Twenty-second.	1,832 50
15209	do	Fifty-fourth court.	Halsted.	South Morgan.	1,247 00
15210	do	Fairmount avenue.	Ogden avenue.	C., B. & Q. R. R.	969 00
15211	do	Fifty-third.	Halsted.	Centre avenue.	1,530 00
15212	do	Roscoe.	Robey.	Sheffield avenue.	2,092 50
15213	do	Fifty-fourth.	Halsted.	Centre avenue.	270 00
15214	do	Forty-fifth.	State.	Wentworth avenue.	450 00
15223	do	Thirty-seventh court.	Halsted.	Laurel.	900 00
15224	do	Thirty-seventh.	Halsted.	Laurel.	923 50
15225	do	Englewood avenue.	Halsted.	Wallace avenue.	1,755 00
15226	do	Best avenue.	Wrightwood avenue.	Diversey.	1,440 00
15227	do	Garfield avenue.	Lawrence avenue.	Clay avenue.	1,710 00
15228	do	Melrose.	Western avenue.	Robey.	2,723 50
15229	do	Wilson.	Union avenue.	Stewart avenue.	1,687 50
15230	do	Gordon.	Union avenue.	Stewart avenue.	2,317 50
15231	do	Forty-eighth.	Ashtland avenue.	Robey.	1,103 50
15232	do	Winter.	Sixtieth.	Green.	235 00
15233	do	Thirty-fourth court.	Halsted.	Laurel.	450 00
15234	do	Sixtieth.	Halsted.	Union avenue.	427 50
15235	do	Gunn.	Halsted.	Union avenue.	439 00
15236	do	Morgan.	Garfield boulevard.	Fifty-seventh.	1,507 50
15237	do	Thirty-eighth court.	Halsted.	Laurel.	1,237 50
15238	do	Union avenue.	Sixty-ninth.	Seventy-first.	1,642 50
15239	do	Cloud avenue.	Ninety-first.	C. & W. I. R. R.	8,105 00
15240	do	Flournoy.	Francisco.	Albany avenue.	1,147 50
15241	do	Green.	Fifty-fifth.	Fifty-sixth.	472 50

## STATEMENT OF ASSESSMENTS FOR WATER SERVICE PIPES — CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
15242	W. S. Pipes.....	Sangamon.....	Francisco.....	Fifty-seventh.....	\$ 630 00
15243	do.....	Thirty-third.....	Archer avenue.....	Oakley avenue.....	315 00
15246	do.....	Evanston avenue.....	Bryn Mawr avenue.....	Thorndale avenue.....	2,254 00
15312	do.....	Augusta.....	California avenue.....	Grand avenue.....	607 50
15313	do.....	Parnell avenue.....	Thirty-seventh.....	Thirty-ninth.....	495 00
15314	do.....	Jeffrey avenue.....	Ninety-first.....	Ninety-fifth.....	3,168 00
15335	do.....	Sholto.....	Taylor.....	Eleventh.....	225 00
15336	do.....	Minnehaha avenue.....	Ninety-first.....	Ninety-second.....	1,080 00
15337	do.....	Bloom.....	Thirty-fourth.....	Thirty-eighth.....	787 50
15338	do.....	Clark avenue.....	Ninety-first.....	Ninety-fifth.....	2,475 00
15339	do.....	Ogden avenue.....	W. Forty-second.....	W. Forty-sixth.....	5,238 00
15340	do.....	Homan avenue.....	Sixteenth.....	Twenty-second.....	2,632 50
15341	do.....	Ninety-second.....	Juniata avenue.....	Jeffrey avenue.....	517 50
15342	do.....	Central Park avenue.....	Twenty-sixth.....	Thirty-second.....	5,214 00
15343	do.....	Ninety-second place.....	Juniata avenue.....	Luella avenue.....	877 50
15344	do.....	Central Park avenue.....	Chicago avenue.....	North avenue.....	5,940 00
15345	do.....	Juniata avenue.....	Ninety-first.....	Ninety-third.....	3,278 00
15346	do.....	Ninety-first.....	Juniata avenue.....	Jeffrey avenue.....	1,850 00
15347	do.....	Ninety-fifth.....	Juniata avenue.....	Jeffrey avenue.....	4,224 00
15348	do.....	Elston avenue.....	Milwaukee avenue.....	Belmont avenue.....	1,170 00
15349	do.....	Erie.....	Western avenue.....	Campbell avenue.....	1,783 50
15350	do.....	Minnehaha avenue.....	Ninety-third.....	C. & W. I. R. R.....	1,214 00
15351	do.....	Kedzie avenue.....	Twenty-sixth.....	Chicago river.....	4,532 00
15352	do.....	Prindville.....	Stave.....	Milwaukee avenue.....	135 00
15354	do.....	Morgan.....	Sixty-third.....	Sixty-fifth.....	1,912 50
15355	do.....	So. Normal Park way.....	Wright.....	C., R. I. & P. Ry.....	535 50
15356	do.....	Harvard.....	Seventy-ninth.....	Seventieth.....	472 50
15357	do.....	Forty-fourth.....	Wallace.....	Halsted.....	188 00
15358	do.....	Forty-fourth.....	Wentworth.....	State.....	282 00
15366	do.....	Emerald avenue.....	Egan avenue.....	Forty-seventh.....	2,449 95
15376	do.....	State.....	Sixteenth.....	Twenty-sixth.....	630 00
15377	do.....	Centre avenue.....	Fifty-first.....	Fifty-fifth.....	3,608 00
15378	do.....	Parnellee.....	Hoyle avenue.....	Western avenue.....	967 50
15379	do.....	Garvin avenue.....	Ninety-first.....	Ninety-fifth.....	3,080 00
15380	do.....	Myrtle.....	Birch.....	Taylor.....	225 00
15381	do.....	Butler.....	Thirty-fifth.....	Thirty-ninth.....	1,843 50

15892	W. S. Pipes	Gross avenue.....	Ninety-first.....	Ninety-fifth.....	8,080 00
15893	do	Lawdale avenue.....	Thirty-first.....	River.....	1,777 50
15894	do	Rupp avenue.....	Ninety-first.....	C. & W. I. R. R.....	3,036 00
15895	do	Lucia avenue.....	Ninety-first.....	C. & W. I. R. R.....	2,860 00
15896	do	Fifty-ninth.....	State.....	Ashland Avenue.....	4,818 00
15897	do	Hall.....	Diversey avenue.....	Oakdale avenue.....	982 50
15423	do	Ninety-fifth.....	Calumet river.....	Torrence avenue.....	4,284 00
15424	do	Union.....	Sixty-third street.....	Sixty-seventh.....	1,102 50
15425	do	Notre Dame avenue.....	One Hundredth.....	One Hundred and Fourth.....	4,144 00
15426	do	Ashland avenue.....	Fifty-ninth.....	Sixty-third.....	4,473 00
15427	do	Fiftieth court.....	Vincennes avenue.....	Cottage Grove avenue.....	2,244 00
15466	do	Nebraska.....	Bloomington road.....	Palmer place.....	1,755 00
15467	do	Park avenue.....	Hamlin avenue.....	West Fortieth.....	1,192 50
15468	do	Washington.....	Hamlin avenue.....	West Fortieth.....	1,327 50
15479	do	Lawndale avenue.....	Ogden avenue.....	Twelfth.....	5,698 00
15480	do	Clarendon avenue.....	East Ravenswood Park.....	Clark.....	1,665 00
15481	do	Hirsch.....	Leavitt.....	California avenue.....	720 00
15482	do	Kinzie.....	May.....	Paulina.....	810 00
15483	do	Edgewood avenue.....	Milwaukee avenue.....	Humboldt boulevard.....	2,354 00
15484	do	Belmont avenue.....	East Ravenswood Park.....	Clark.....	990 00
15493	do	Eighty-seventh place.....	South Park avenue.....	Dauphin avenue.....	4,818 00
15503	do	Sixty-first.....	Madison avenue.....	Cottage Grove avenue.....	420 00
15506	do	West Fourteenth.....	Irving place.....	Wood.....	2,047 50
15515	do	Armitage avenue.....	Kedzie avenue.....	Columbia avenue.....	10,557 00
15585	do	St. Louis avenue.....	Ogden avenue.....	Twelfth.....	3,410 00
15596	do	Homer.....	Robey.....	Oakley avenue.....	450 00
15597	do	Blucher.....	Wellington.....	Noble.....	141 00
15598	do	Rebecca.....	Rockwell.....	Western avenue.....	1,237 50
15599	do	Lubeck.....	Robey.....	Western avenue.....	1,237 50
15642	do	Stone.....	Division.....	Scott.....	188 00
15643	do	Maplewood avenue.....	West North avenue.....	Bloomington road.....	602 00
15644	do	Green.....	Fifty-sixth.....	Fifty-seventh.....	587 50
15645	do	Morgan.....	Fifty-seventh.....	Sixty-third.....	2,618 00
15646	do	Pine.....	East Ravenswood park.....	Clark.....	1,912 50
15647	do	Carpenter.....	Fifty-first.....	Fifty-fourth.....	1,867 50
15648	do	May.....	Fifty-first.....	Fifty-fourth.....	1,957 50
15649	do	Otto.....	Halsted.....	Clark.....	157 50
15650	do	Hoyle avenue.....	Belmont.....	Roscoe.....	473 50
15651	do	West court.....	Belmont.....	South terminus.....	180 00
15652	do	Morgan.....	Fifty-first.....	Fifty-fourth.....	1,485 00
15653	do	Ward.....	Clybourn avenue.....	Fullerton avenue.....	1,010 50
15654	do	Oakdale avenue.....	Sheffield avenue.....	Racine avenue.....	1,012 50

## STATEMENT OF ASSESSMENTS FOR WATER SERVICE PIPES—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
15655	W. S. Pipes.	Sacramento avenue.	Division.	Augusta.	\$ 994 50
15656	do	Clifton Park avenue.	Ogden avenue.	Douglas avenue.	2,250 00
15657	do	Forrest avenue.	Fullerton avenue.	Elston avenue.	1,462 50
15658	do	Forty-second.	Wallace.	School.	787 50
15659	do	Avondale avenue.	Belmont avenue.	California avenue.	2,092 50
15660	do	Warsaw avenue.	Thomas avenue.	California avenue.	1,440 50
15661	do	Hamlin avenue.	Ogden avenue.	Thirty-first.	3,300 00
15662	do	Duncan park.	Princeton avenue.	Stewart avenue.	270 00
15669	do	Sheridan.	North avenue.	Bloomingtondale road.	945 00
15700	do	Diversey.	River.	Kedzie avenue.	5,852 00
15776	do	Albany avenue.	Ogden avenue.	West Nineteenth.	787 50
15777	do	Ewing avenue.	Ninety-second.	One Hundredth.	6,400 00
15778	do	Frankfort.	Leavitt.	Western avenue.	585 00
15779	do	Albany avenue.	Kinzie.	Ohio.	967 50
15780	do	One Hundred and Nineteenth.	Michigan avenue.	Halsted.	4,730 00
15781	do	Hamburg.	Robey.	Western avenue.	1,305 00
15782	do	Albany avenue.	Twenty-second.	Twenty-sixth.	2,398 00
15783	do	Clarkson avenue.	Palmer place.	Bloomingtondale road.	1,125 00
15785	do	Euclid avenue.	Grand avenue.	Devon avenue.	946 00
15786	do	Seventieth.	I. C. R. R.	Stony Island avenue.	430 00
15787	do	Wood.	Roscoe.	Belmont avenue.	215 00
15788	do	Fischer avenue.	Grand avenue.	Devon avenue.	946 00
15789	do	Tracy avenue.	Fifty-fifth.	Fifty-seventh.	495 00
15790	do	Charlton avenue.	Grand avenue.	Devon avenue.	946 00
15791	do	Parnell avenue.	Thirty-third.	Thirty-fifth.	1,395 00
15795	do	Sherman.	Wilson.	Forty-sixth.	472 50
15798	do	Princeton avenue.	Root.	Forty-seventh.	1,687 50
15905	do	Ambrose.	Western avenue.	Oakley avenue.	817 00
15906	do	May.	Seventy-third.	Seventy-fifth.	1,763 00
15907	do	Peoria.	Fifty-first.	Fifty-fifth.	1,354 50
15908	do	West Seventeenth.	Panhandle Ry.	Western avenue.	688 00
15909	do	Bishop.	Forty-seventh.	Forty-ninth.	301 00
15910	do	La Salle.	Fort-seventh.	Garfield boulevard.	1,053 50
15911	do	Seeley avenue.	Fifty-third.	Fifty-fourth.	225 00
15912	do	Breslau.	Hamburg.	Ens.	202 50
15913	do	Fifty-first.	Ashtland avenue.	Wood.	817 00

15914	W.S. Pipes.	Forty-ninth	Cottage Grove avenue.	Grand boulevard.	480 00
15915	do	Fifty-second.	Cottage Grove avenue.	Drexel avenue.	494 50
15916	do	Hoyne avenue.	Archer avenue.	Thirty-fourth	516 00
15917	do	Clifton avenue.	Wellington avenue.	Roscoe.	494 50
15951	do	Sixty-seventh.	Honore avenue.	Halsted.	720 00
15952	do	Sangamon.	Fifty-ninth.	Sixty-third	1,677 00
15953	do	Rebecca	California avenue.	Rockwell.	1,147 50
15954	do	Maple	Wright	Wallace.	585 00
15955	do	Fleetwood avenue.	Blackhawk.	North avenue.	787 50
15956	do	Centre avenue.	Forty-seventh	Fifty-first.	2,042 50
15957	do	Flournoy street.	California avenue.	Washtenaw avenue.	877 50
15958	do	Norman avenue.	West North avenue.	Bloomington road.	270 00
15959	do	Mitchell avenue.	West North avenue.	Bloomington road.	516 00
15960	do	Hull avenue.	Twelfth.	Fillmore.	742 50
15961	do	School.	Lincoln.	Wood.	450 00
15962	do	Talman avenue.	North avenue.	Hirsch.	1,161 00
15963	do	Eighty-seventh.	South Chicago Br. I. C. R. R.	L. S. & M. S. Ry.	1,377 00
15964	do	Woodlawn avenue.	Seventy-sixth.	Eighty-third.	6,118 00
15965	do	Holt avenue.	North avenue.	Wabansia avenue.	113 50
15966	do	Homer.	Western avenue.	Washtenaw.	602 00
15967	do	Robey	Blue Island avenue.	1200 ft. south.	564 00
15968	do	May	Wrightwood avenue.	Diversey.	666 50
15969	do	Grand avenue.	Clark.	Ridge avenue.	748 50
15991	do	Turner avenue.	Douglas Park boulevard.	Ogden avenue.	2,500 25
16000	do	Lexington.	Rockwell.	California avenue.	900 00
16001	do	Forty-sixth.	Drexel boulevard.	Woodlawn avenue.	148 05
16005	do	Hoffman avenue.	Milwaukee avenue.	Woodlawn avenue.	900 00
16006	do	Courtland.	Leavitt.	Diversey.	1,147 50
16112	do	Ferdinand.	Armour avenue.	Oakley avenue.	141 00
16113	do	Clark.	Lawrence avenue.	Noble.	663 00
16115	do	Hamlin avenue.	West Chicago avenue.	Webster avenue.	1,634 00
16121	do	Sixty-first.	Cottage Grove avenue.	West North avenue.	6,170 50
16127	do	Stony Island avenue.	Fifty-sixth.	State.	4,334 00
16133	do	Fifth avenue.	Douglas avenue.	Seventy-ninth.	4,670 25
16233	do	Thirty-eighth.	Hart avenue.	Thirty-seventh.	284 50
16234	do	Lawndale avenue.	Harrison.	Pierson.	2,646 00
16255	do	Wolfgram.	Lawndale avenue.	Taylor.	1,161 00
16256	do	Cedar	Wentworth avenue.	Southport avenue.	322 50
16257	do	Ashland avenue.	Lawrence avenue.	P., Ft. W. & C. Ry.	602 00
16258	do	Sacramento avenue.	Thirty-eighth.	Webster avenue.	2,484 00
16259	do	Forquer.	Central Park avenue.	Thirty-ninth.	365 50
16260	do	Joseph.	338 ft. east of Grant avenue.	Lawndale avenue.	1,082 00
				Pierson ave.	1,870 50



## STATEMENT OF ASSESSMENTS FOR WATER SERVICE PIPES—CONTINUED.

No. of Warr't	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
16261	W. S. Pipes.	Lexington....	Central Park avenue....	Lawndale avenue....	\$ 924 50
16262	do	Archer avenue....	Western avenue....	Thirty-ninth....	1,597 50
16263	do	Langley avenue....	Forty-ninth....	Fifty-first....	516 00
16264	do	Grant avenue....	Thirty-ninth....	Thirty-fifth....	1,763 00
16265	do	California avenue....	Thirty-ninth....	I. & M. Canal....	3,486 00
16266	do	Blanchard avenue....	Thirty-ninth....	Thirty-fifth....	2,478 00
16267	do	Sixty-ninth....	Woodlawn avenue....	I. C. R. R. ....	752 50
16268	do	Addison....	Sixty-ninth....	Seventy-first....	1,634 00
16269	do	Seventy-first....	Woodlawn avenue....	I. C. R. R. ....	301 00
16270	do	Seventieth....	Addison avenue....	I. C. R. R. ....	636 00
16271	do	Springer....	Laurel....	Waterville avenue....	387 00
16272	do	Marshfield avenue....	Thirty-fourth....	Thirty-seventh....	688 00
16273	do	Fox....	Thirty-first....	Waterville....	580 50
16274	do	Forty-sixth....	Union avenue....	Stewart avenue....	623 50
16275	do	Thirty-third court....	Ashland avenue....	Wood....	1,290 00
16276	do	Thirty-third....	Ashland avenue....	Wood....	623 50
16277	do	West Thirty-second....	Ashland avenue....	Paulina....	215 00
16278	do	Dexter avenue....	Union....	Stewart avenue....	344 00
16279	do	Lincoln....	Thirty-fifth....	Thirty-ninth....	1,397 50
16280	do	Thirty-fourth....	Ashland avenue....	Wood....	494 50
16281	do	Kinzie....	Paulina....	Oakley avenue....	741 00
16282	do	Thirty-second....	Ullman....	Benson....	473 00
16283	do	Fifty-second....	Halsted....	Morgan....	1,139 50
16284	do	Mill....	Ashland avenue....	Paulina....	193 50
16285	do	Thirty-fourth court....	Halsted....	Ullman....	903 00
16286	do	McAlpine....	Thirty-fifth....	Bross avenue....	2,205 00
16287	do	Oglesby avenue....	Sixty-ninth....	Seventy-first....	1,118 00
16288	do	Belmont avenue....	North branch Chicago river....	Milwaukee avenue....	10,212 00
16289	do	North Fifty-ninth....	East Ravenswood Park....	Clark....	1,777 50
16290	do	Myrtle avenue....	Milwaukee avenue....	Diversey....	1,591 00
16291	do	Monticello avenue....	Kinzie....	Chicago avenue....	3,950 00
16292	do	Ohio....	Homan avenue....	Harding avenue....	1,563 50
16293	do	Colorado....	Douglas Park boulevard....	Crawford avenue....	1,732 50
16294	do	W. Harrison....	Kedzie avenue....	Crawford avenue....	6,754 00
16295	do	Lawrence avenue....	Sheffield avenue....	Lake Michigan....	832 50
16296	do	West Fortieth....	Twenty-fourth....	Twenty-eighth....	2,767 50

16608	W. S. Pipes.	Twenty-fourth.	Fortieth.	Forty-first.	765 00
16609	do	Fifty-fourth.	Lake avenue.	Woodlawn avenue.	810 00
16610	do	Centre avenue.	Sixty-third	Seventy-fifth.	9,198 00
16611	do	Rockwell.	Grand avenue.	Chicago avenue.	604 50
16612	do	Chicago avenue.	California avenue.	Crawford avenue.	10,904 25
16613	do	West Forty-second.	Twenty-eighth.	C. B. & Q. R. R.	1,428 50
16614	do	Twenty-eighth.	Fortieth.	Forty-fourth.	884 50
16615	do	Twenty-sixth.	Fortieth.	Forty-fourth.	8,431 00
16616	do	Twenty-fifth.	Kellogg.	Fortieth.	2,317 50
16617	do	Pearl.	Kellogg.	Fortieth.	2,565 00
16618	do	Evanston avenue.	Grand avenue.	Devon avenue.	620 00
16619	do	Sixty-third.	Ashland avenue.	Pittsfield avenue.	10,408 50
16620	do	Twenty-first.	Western avenue.	Panhandle R. R.	424 00
16621	do	Dickson.	Wabansia avenue.	Bloomington road.	324 50
16622	do	Sixtieth.	State.	South Park avenue.	322 50
16623	do	Hancock.	North avenue.	Armitage avenue.	1,397 50
16624	do	Washtenaw avenue.	Chicago avenue.	Division.	838 50
16625	do	Commercial avenue.	Ninety-second.	L. S. & M. S. Ry.	587 50
16626	do	Milwaukee avenue.	Crawford avenue.	Jefferson avenue.	8,778 00
16627	do	Wall.	Thirtieth.	Thirty-fourth court.	1,655 50
16628	do	May.	Fifty-ninth.	Sixty-third.	1,569 50
16629	do	Ninety-second.	Commercial avenue.	L. S. tracks.	423 00
16630	do	Milwaukee avenue.	Kedzie avenue.	Crawford avenue.	9,933 00
16631	do	James avenue.	Laurel.	Benson.	408 50
16632	do	Green.	Fifty-ninth.	Sixty-third.	1,985 00
16633	do	Coblentz.	Leavitt.	Western avenue.	408 50
16634	do	Aberdeen.	Fifty-ninth.	Sixty-third.	1,376 00
16635	do	Haven.	Shields avenue.	Stewart avenue.	156 00
16636	do	Boulevard place.	St. Lawrence avenue.	Vincennes avenue.	602 00
16637	do	Greshaw.	Kedzie avenue.	Spaulding avenue.	559 00
16638	do	Seventieth court.	St. Lawrence avenue.	E. terminus.	408 50
16639	do	Greshaw.	Spaulding avenue.	Homan avenue.	795 50
16640	do	Carpenter.	Fifty-ninth.	Sixty-third.	860 00
16641	do	Perry avenue.	Milwaukee avenue.	Fullerton avenue.	1,032 00
16642	do	Trumbull avenue.	Colorado avenue.	West Harrison.	1,209 00
16643	do	Kimball avenue.	North avenue.	Armitage avenue.	1,892 00
16644	do	Sherman.	Sixty-ninth.	Seventy-first.	1,376 00
16645	do	Werder.	Rockwell.	California avenue.	967 50
16646	do	Erie avenue.	Ninety first.	South Chicago avenue.	1,268 50
16647	do	Ruble.	Canalport avenue.	Twenty-first.	409 50
16648	do	Noble avenue.	Ashland avenue.	Wood.	1,118 00
16649	do	Vincennes road.	Sixty eighth	Seventy-ninth.	7,880 00

## STATEMENT OF ASSESSMENTS FOR WATER SERVICE PIPES—CONTINUED.

No. of Warrant	IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
16958	W.S. Pipes...	Thirty-third court...	Halsted...	Laurel...	\$ 559 00
17058	do	Summerdale avenue...	Clark...	Southport avenue...	1,053 50
17059	do	Berwyn avenue...	Clark...	Southport avenue...	1,096 50
17060	do	Balmoral avenue...	Clark...	Southport avenue...	1,053 50
17061	do	Farragut...	Clark...	Southport avenue...	1,118 00
17062	do	Sixty-fifth...	State...	Wentworth avenue...	752 50
17063	do	North Fifth-ninth...	Clark...	Southport avenue...	1,268 50
17064	do	Emerald avenue...	Sixty-fifth...	Sixty-sixth...	175 50
17065	do	Central Park avenue...	North avenue...	Armitage avenue...	2,289 00
17066	do	Seventy-fifth...	Vincennes avenue...	Stewart avenue...	752 50
17067	do	Sixty-first...	State...	I. C. R. R...	321 00
17126	do	Grove place...	Sixty-fourth...	Sixty-fifth...	300 00
17224	do	West Taylor street...	Central Park avenue...	Lawndale avenue...	516 00
17233	do	Crawford avenue...	Kinzie...	Madison...	1,741 50
17249	do	Wright...	Thirty-ninth...	Forty-third...	934 00
17252	do	Southport avenue...	144 ft. north of Grand avenue...	North terminus...	654 00
17256	do	Ashland avenue...	Twenty-second...	Archer avenue...	720 50
17257	do	Cologne...	Fuller...	Quarry...	1,103 00
17258	do	South Chicago avenue...	Eighty-seventh...	Ninety-second...	7,882 00
17273	do	Southport avenue...	North Fifty-ninth...	Balmoral avenue...	852 00
17293	do	Moore...	Wood...	Douglas Park boulevard...	7,651 00
17294	do	Thirty-sixth...	Western avenue...	Oakley avenue...	365 50
17295	do	Oakley avenue...	Thirty-sixth...	Archer avenue...	172 00
17296	do	Grace...	Lincoln avenue...	Clark...	2,793 00
17321	do	Sixty-fifth court...	Stewart avenue...	Honore...	452 50
17329	do	Bonney avenue...	Twenty-sixth...	Thirty-first...	2,674 00
17336	do	Ninety-second...	Harbor avenue...	Commercial avenue...	2,668 00
17337	do	Sixty-ninth court...	Cottage Grove avenue...	South Chicago avenue...	604 50
17338	do	Houston avenue...	Eighty-seventh...	Ninety-third...	3,036 50
17351	do	Cologne...	Main...	Fuller...	1,141 00
17355	do	South Chicago avenue...	Stony Island avenue...	Eighty-seventh...	6,916 00
17366	do	Ballou...	North avenue...	Armitage avenue...	1,591 00
17378	do	Sixty-third...	State...	Cottage Grove avenue...	4,004 25
17379	do	Centre avenue...	Fifty-seventh...	Sixty-third...	4,179 00
17409	do	Hoynes avenue...	Archer avenue...	Thirty-eighth...	1,526 50
17418	do	Rockwell...	Chicago avenue...	Division...	1,076 00

## STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS.

No. of Ward	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
17436	W.S. Pipes.	Coulter.	Hoyne avenue.	Western avenue.	1,449 00
17429	do	Halsted.	Sixty-ninth.	Seventy-ninth.	8,956 00
	Total.				\$812,128 00
14535	North.	Fifty-ninth.	Halsted.	Morgan.	\$ 550 00
14536	Both.	Turner avenue.	West Twenty-second.	West Twenty-sixth.	437 00
14538	Both.	Fullerton avenue.	Southport avenue.	North branch Chicago river	1,000 00
14539	South.	North Fifty-ninth.	West Ravenswood park.	Lincoln avenue.	1,100 00
14540	Both.	Robey.	Armitage avenue.	C. & N.-W. Ry.	250 00
14541	West.	Tracy avenue.	Forty-ninth.	Fifty-first.	518 00
14543	South.	Washington.	St. James avenue.	Washington avenue.	750 00
14543	West.	St. James avenue.	Franklin.	Washington avenue.	246 00
14544	West.	Cassett avenue.	Washington.	Madison.	246 00
14546	Both.	Ashland avenue.	South branch Chicago river.	Fifty-fifth.	7,950 00
14547	West.	Fortieth.	Van Buren.	Congress.	150 00
14548	West.	Maplewood avenue.	Diversey.	C. & N.-W. Ry.	160 00
14549	Both.	Iowa.	Fairfield avenue.	California avenue.	220 00
14550	West.	Prairie avenue.	Ninety-fifth.	Ninety-ninth.	890 00
14551	East.	May.	Sixty-seventh.	Sixty-ninth.	320 00
14553	North.	Grove.	Prospect avenue.	Centre avenue.	690 00
14555	West.	St. Lawrence avenue.	Sixty-fourth.	Sixty-fifth.	254 00
14558	Both.	Ingleside avenue.	Fifty-seventh.	Fifty-ninth.	752 00
14612	Both.	Wood.	Fifteenth.	Blue Island avenue.	485 00
14613	Both.	Forty-third.	Western avenue.	Kedzie avenue.	8,080 00
14638	North.	Belmont avenue.	Central Park avenue.	Milwaukee avenue.	650 00
14639	West.	Clark.	Diversey.	Wellington.	1,187 00
14640	South.	Sixty-eighth.	Aberdeen.	Centre avenue.	110 00
14641	North.	Sixty-eighth.	Aberdeen.	May.	154 00
14642	North.	Sixty-eighth.	Morgan.	Carpenter.	151 00
14643	East.	Kedzie avenue.	Milwaukee avenue.	Belmont avenue.	800 00
14644	Both.	Wrightwood avenue.	Southport avenue.	Herndon.	369 00
14645	South.	Wellington.	Clark.	Halsted.	170 00
14646	West.	State.	Sixty-fourth.	Sixty-eighth.	2,220 00
14647	East.	Ward.	Wrightwood avenue.	Dunning.	135 00
14648	Both.	Sixty-first.	Ashland avenue.	Halsted.	8,460 00

## STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warrant	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
14649	East.	Springfield avenue.	Emery	Division.	\$ 250 00
14650	Both.	Ridgeway avenue.	Grand avenue.	North avenue.	640 00
14651	South.	West Ontario.	West Forty-ninth.	West Fiftyth.	225 00
14652	Both.	West Thirtieth.	Homan avenue.	Spaulding avenue.	450 00
14653	North.	School.	Western avenue.	Mara.	470 00
14654	North.	Forty-fourth court.	Westworth avenue.	P., Ft. W. & C. Ry.	400 00
14655	Both.	Central Park avenue.	Grand avenue.	North avenue.	1,290 00
14656	North.	Blanche.	Holt.	Noble.	350 00
14657	Both.	Sixty-third.	Stony Island avenue.	Cottage Grove avenue.	4,300 00
14689	Both.	Forty-fifth.	Halsted.	Westworth avenue.	1,950 00
14690	Both.	Sacramento avenue.	Jackson.	Van Buren.	150 00
14691	Both.	Emery.	Central Park avenue.	Grand avenue.	650 00
14752	Both.	Avenue "L."	Ninety-fifth.	Ninety-eighth.	1,361 00
14766	Both.	One Hundred and Sixth.	Calumet river.	Muskegon avenue.	1,776 06
14792	Both.	West Harrison.	Homan avenue.	Central Park avenue.	1,073 17
14797	Both.	Sixty-second.	Ashland avenue.	Halsted.	2,271 25
14798	Both.	Gordon.	P., Ft. W. & C. Ry.	C., R. I. & P. Ry.	1,130 00
14803	West.	South Park avenue.	Fifty-fifth.	Sixty-first.	780 00
14842	Both.	Fifty-sixth.	Kedzie avenue.	G. T. R. R.	1,426 84
15028	Both.	St. Charles avenue.	Montrose boulevard.	Irving Park boulevard.	1,400 00
15029	Both.	Girard.	in front lot 11, block 33.	Sheffield avenue.	68 00
15032	South.	North avenue.	Hawthorne	Chicago river.	500 00
15033	East.	Elston avenue.	Lawrence avenue.	Jefferson avenue.	1,000 00
15034	North.	Ellen.	Wood.	Lincoln.	150 00
15085	Both.	Attica.	Auburn.	Laurel.	580 00
15086	West.	Cottage Grove avenue.	Forty-fourth.	Forty-seventh.	700 00
15037	Both.	Madison	Hamlin avenue.	Crawford avenue.	2,300 00
15141	Both.	Dayton.	Willow	Belden avenue.	524 98
15143	Both.	Twenty-seventh.	State.	Portland avenue.	1,936 62
15153	East.	Halsted.	Ninetieth	Ninety-ninth	1,090 00
15317	South.	Irving Park boulevard.	West Fifty-second	Ridgeland avenue.	2,750 00
15320	Both.	Montrose boulevard.	Stewart avenue.	Elston avenue.	1,270 00
15322	Both.	Elston avenue.	Crawford avenue.	Montrose boulevard.	430 00
15323	North.	North avenue.	McAnully avenue.	Grand avenue.	180 00
15324	East.	State.	One Hundred and Nineteenth.	One Hundred and Twenty-third.	760 00
15325	West.	Keeney avenue.	Wabansia avenue.	Armitage avenue.	650 00

15374	Both.	West Fifteenth	California avenue.	Western avenue.	700 00
15404	West.	Tripp avenue.	Fullerton avenue.	Pennock boulevard.	480 00
15406	Both.	Mackinaw avenue.	Eighty-seventh.	Eighty-ninth.	550 00
15407	West.	Crawford avenue.	Twenty-second.	Thirty first.	950 00
15409	South.	Franklin.	Hoffman avenue.	Forrest avenue.	170 00
15410	Both.	West Eighteenth.	Homan avenue.	Clifton Park avenue.	580 00
15411	Both.	Clifton Park avenue.	Sixteenth.	Ogden avenue.	740 00
15412	Both.	Desplaines.	Nineteenth.	Ninety-third.	598 00
15413	West.	Halsted.	Ninety-ninth.	One Hundred and First.	480 00
15414	South.	Madison.	Kedzie avenue.	Central Park avenue.	2,770 00
15415	Both.	Morgan.	Lake.	Van Buren.	910 00
15416	Both.	Sangamon.	Lake.	Van Buren.	570 00
15417	Both.	West Adams	Forty-first.	Forty-second.	400 00
15418	Both.	Hull.	Fillmore.	Twelfth.	390 00
15419	Both.	Harrison.	Paulina.	Western avenue.	4,355 00
15420	Both.	Birch.	Robey.	Kendall.	840 00
15431	Southwest.	Milwaukee avenue.	City Limits.	Carpenter road.	2,760 00
15480	South.	Madison.	Jefferson avenue.	Hunting avenue.	760 00
15431	Both.	Blucher.	Wood.	Lull place.	220 00
15432	Both.	Palmer avenue.	Webster avenue.	North Fifty-ninth.	480 00
15435	Both.	One Hundredth.	Park avenue.	Halsted.	800 00
15436	Both.	Centre avenue.	Fifty-seventh.	Sixtieth.	820 00
15437	North.	Fifty-eighth.	Centre avenue.	May.	128 00
15439	West.	Halsted.	One Hundred and Third.	One Hundred and Fourth.	280 00
15441	East.	Jefferson avenue.	C. & N. W. Ry.	Elston avenue.	480 00
15442	Both.	One Hundred and First.	Halsted.	Park avenue.	1,180 00
15443	Both.	Seventy-seventh.	Stewart avenue.	Vincennes avenue.	320 00
15445	North.	Monroe.	Jefferson avenue.	Sampson avenue.	320 00
15446	North.	West Van Buren.	Spaulding avenue.	Homan avenue.	90 00
15449	North.	Eighty-ninth.	Stewart avenue.	Holland road.	220 00
15450	East.	Milwaukee avenue.	Franklin.	Carter & Given's Subdn.	590 00
15451	North.	Dickens avenue.	Crawford avenue.	Springfield avenue.	140 00
15452	Both.	West Fiftyth.	Armitage avenue.	Dickens avenue.	320 00
15453	Both.	West Fifty-first.	Armitage avenue.	Dickens avenue.	390 00
15454	South.	Franklin.	St. James.	Washington avenue.	470 00
15455	South.	Ninety-fifth.	Halsted.	Wentworth avenue.	770 00
15456	Both.	Dayton.	Belden avenue.	Garfield avenue.	270 00
15457	Both.	Centre.	Sheffield avenue.	Clybourn avenue.	400 00
15458	Both.	Bissell.	Garfield avenue.	Belden avenue.	420 00
15459	Both.	Maud avenue.	Clybourn avenue.	Sheffield avenue.	180 00
15460	South.	Thirty-sixth.	Vincennes avenue.	Cottage Grove avenue.	490 00
15462	South.	Ninety-first.	Halsted.	Canal.	720 00

## STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warrant	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
15510	Both.	Eighty-fourth.	Commercial avenue.	Juniata avenue.	\$1,900 00
15511	Both.	One Hundred and Ninth.	Avenue "G".	Avenue "P".	995 26
15513	North.	Diversey.	Milwaukee avenue.	Crawford avenue.	781 00
15541	South.	Augusta.	Hamlin avenue.	Springfield avenue.	272 00
15562	Both.	West Fifthieth place.	Armitage avenue.	Dickens avenue.	280 00
15580	Both.	Division.	West Fortieth.	West Forty-sixth.	2,720 00
15581	Both.	Crawford avenue.	Twelfth.	Twenty-eighth.	8,059 00
15600	Both.	Seventy-fifth.	Stewart avenue.	Vincennes avenue.	380 00
15666	Both.	Canal.	Archer avenue.	Twenty-second.	712 80
15670	Both.	Halsted.	Forty-seventh.	Sixty-third.	10,880 00
15689	East.	Peoria.	Sixty-second.	Sixty-third.	75 00
15702	Both.	Fifty-second.	Wallace.	Sherman.	120 00
15703	East.	Sheridan.	Humboldt avenue.	Armitage avenue.	130 00
15704	West.	Wentworth avenue.	Sixty-third.	Sixty-fourth.	210 00
15705	Both.	Fifty-second.	Ashland avenue.	Wood.	415 10
15706	Both.	Hoyne avenue.	Thirteenth.	Fourteenth.	120 00
15707	Both.	Delaware.	Forty-sixth.	Forty-seventh.	430 00
15708	Both.	Webster avenue.	Eighty-eighth.	Eighty-ninth.	90 00
15709	East.	Forty-seventh.	Iowa.	Delaware.	120 00
15710	West.	Hawkins.	Kinzle.	Chicago avenue.	680 00
15711	Both.	West Forty-fourth.	North avenue.	Chicago avenue.	740 00
15712	Both.	Osgood.	Centre.	Fullerton avenue.	560 00
15713	North.	Ninety-fifth.	Vincennes avenue.	Ashland avenue.	440 00
15714	Both.	West Taylor.	Paulina.	Western avenue.	750 00
15715	Both.	Wood.	West Washington.	West Taylor.	500 00
15716	Both.	Washtenaw avenue.	Van Buren.	Taylor.	880 00
15717	Both.	Sacramento avenue.	Lake.	Twelfth.	1,850 00
15718	Both.	West Forty-eighth.	Chicago avenue.	Division.	1,030 00
15719	Both.	Webster avenue.	Halsted.	River.	1,220 00
15720	Both.	Seventy-fifth.	Cottage Grove avenue.	I. C. R. R.	500 00
15721	Both.	Turner avenue.	Ogden avenue.	C., B. & Q. R. R.	200 00
15722	Both.	Thirty-third.	Archer avenue.	Oakley avenue.	620 00
15723	Both.	Bertrand avenue.	Lawrence avenue.	Balmoral avenue.	730 00
15724	Both.	Eighty-fourth.	Ashland avenue.	C. & N.-W. Ry.	330 00
15725	South.	Eighty-fourth.	Wallace.	Vincennes avenue.	80 00
15726	Both.	Eighty-ninth.	Muskegon avenue.	Escanaba avenue.	120 00

15727	North.	Sixty-fifth	Homan avenue	Kedzie avenue.	840 00
15728	Both.	Wrightwood avenue	Herndon	C. & N.-W. Ry.	490 00
15729	West.	West Ravenswood park.	Fifty-ninth.	Leland avenue.	720 00
15730	Both.	Wallace	Eighty-first.	Berkhoff avenue	820 00
15731	West.	Wallace.	Eighty-fourth	Eighty-seventh	410 00
15732	Both.	Michigan avenue.	Sixty-seventh.	Sixty-eighth.	440 00
15733	Both.	Webster avenue.	East Ravenswood park.	Wolcott.	250 00
15734	East.	Robey	Lawrence avenue	Webster avenue.	580 00
15735	Both.	Hoyle avenue.	Clybourn avenue.	School.	1,060 00
15736	Both.	Graceland avenue.	Ashland avenue.	Clark.	650 00
15737	Both.	Graceland avenue.	Ashland avenue.	C. & N.-W. Ry	240 00
15738	Both.	Fletcher.	Racine avenue.	Perry avenue.	400 00
15739	West.	LaSalle.	Fifty-first	Fifty-fourth.	78 00
15740	Both.	Fiftieth.	Centre avenue.	Throop	130 00
15741	South.	Colorado avenue	Forty-first.	Forty first place	130 00
15742	Both.	Carpenter.	Seventieth	Seventy-first.	240 00
15743	North.	One Hundred and Twenty-third.	State	Michigan avenue.	50 00
15884	Both.	Troy.	Twenty-seventh	Twenty-eighth.	90 00
15885	Both.	Forty-second	Blanchard avenue.	P. C. & St. L. R. R.	380 00
15886	Both.	Evans avenue.	Sixty-fourth.	Sixty-fifth.	220 00
15887	West.	California avenue.	Evergreen avenue.	Diversey.	220 00
15888	South.	Joseph.	Pearson avenue.	Kedzie avenue.	220 00
15889	Both.	Wellington.	Ashland avenue.	Wood.	420 00
15890	Both.	Henderson.	Diversey	Wrightwood avenue	550 00
15934	Both.	Colorado avenue	Jackson	Central Park avenue	200 00
15940	East.	Halsted	Thirty-ninth.	Fortieth	180 00
15941	East.	Halsted.	Fortieth.	Forty-third.	230 00
15942	Both.	Ashland avenue.	Thirty-ninth.	Forty seventh	1,300 00
15970	East.	Centre avenue	Sixty-eighth.	Sixty-ninth.	170 00
15971	Both.	Ward.	Fullerton avenue.	Diversey avenue.	630 00
15972	West.	Woodard	Burns.	Milwaukee avenue	260 00
15973	South.	Wabansia.	Keeney avenue	East to first north and seventh alley	70 00
15974	Both.	Eighty-fifth.	Commercial	Junata avenue	1,000 00
16035	Both.	Albany avenue	Washington boulevard.	West Twenty-fourth.	1,040 00
16057	Both.	St. Louis avenue.	Twenty-second	Twenty-third.	170 00
16058	Both.	Trumbull avenue.	Twenty-second	Twenty-sixth.	500 00
16059	East.	Blanchard avenue.	Forty-first.	Forty-third.	820 00
16060	Both.	Thirty-third.	Halsted.	C. R. I. & P. Ry.	6,280 00
16061	Both.	Butler	Thirty-first.	Thirty-third	1,480 00
16062	Both.	Twenty-eighth.	Halsted.	Stewart avenue.	1,050 00
16063	Both.	Thirtieth.	Halsted.	Stewart avenue.	2,910 00
16064	Both.	Blanchard avenue.	Forty-third.	Forty seventh.	1,490 00



## STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warrant	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
16065	Both	Jackson	Lewis	C. M. & St. P. Ry	\$ 700 00
16066	North	Humboldt avenue	Durham avenue	C. & N.-W. Ry	180 00
16067	Both	Johnston avenue	California avenue	Humboldt boulevard	280 00
16068	East	Hampden court	Deming court	Alley north	49 00
16069	Both	Oakley avenue	Eighteenth	Blue Island avenue	2,810 00
16071	West	Murray	One Hundred and First	One Hundred and Second	44 00
16072	Both	Ferdinand	Leavitt	Oakley avenue	210 00
16073	South	Belmont avenue	Columbia avenue	Jefferson avenue	1,310 00
16074	Both	Parnell avenue	Thirty-first	Thirtieth	8,930 00
16075	Both	Armitage avenue	Milwaukee avenue	California avenue	190 00
16076	North	Berlin	Western avenue	Oakley avenue	75 00
16077	Both	Hoyne avenue	Armitage avenue	Webster avenue	180 00
16078	Both	Cornelia	Warren avenue	Western avenue	840 00
16146	Both	Charlton	Ridge avenue	Peterson avenue	302 40
16268	Both	Chauncey avenue	Seventy-seventh	Seventy-eighth	69 00
16269	Both	Vale	Eighty-ninth	Holland road	75 00
16270	Both	Harvard	Eighty-ninth	285 feet north of Eighty-eighth	57 50
16271	Both	McChesney avenue	Sixty-fourth	Sixty-fifth	80 00
16272	Both	Muskegon avenue	Eighty-ninth	Nineteenth	100 00
16273	East	Vincennes avenue	Sixty-fourth	Sixty-fifth	79 72
16374	North	Twenty-sixth	California avenue	Homan avenue	680 00
16375	Both	Twenty-third	Whipple	St. Louis avenue	290 00
16276	West	Palmer avenue	Sixty-seventh	Seventy-first	900 00
16277	East	Prospect avenue	Ninety-ninth	One Hundred and Seventh	260 00
16278	West	Railroad avenue	Seventy-fourth	Seventy-fifth	260 00
16279	West	Railroad avenue	California avenue	Crawford avenue	2,175 00
16280	West	Ellis avenue	Seventy-fifth	Seventy-sixth	190 00
16281	West	Madison avenue	Sixty-first	Seventy-first	820 00
16282	East	Greenwood avenue	Russell	Seventy-eighth	220 00
16283	Both	Seventieth	I C R. R.	Stony Island avenue	200 00
16284	South	South Chicago avenue	I C R. R.	Stony Island avenue	780 00
16285	Both	Storms	P. Ft. W. & C. Ry	Seventy-fifth	320 00
16286	South	Seventy-sixth	Chauncey avenue	Stony Island avenue	440 00
16287	Both	Aberdeen	Seventieth	Seventy-first	460 00
16288	Both	Forty-ninth	Lawdale avenue	McClay avenue	210 00
16289	West	Seventy-ninth	Seventieth	Seventy-first	115 00

16290	East	Rockwell	Sixteenth	Twenty-second	420 00
16291	East	St. Lawrence avenue	Sixty-seventh	Sixty-eighth	160 00
16292	West	College	One Hundred and Sixth	One Hundred and Seventh	210 00
16293	South	Fifty-third	C., R. I. & P. Ry	Wentworth avenue	142 00
16294	West	Winchester avenue	Forty-ninth	Fiftieth	180 00
16295	Both	Madison avenue	Seventieth	Seventy-first	200 00
16296	Both	Sherman	Fifty-sixth	Fifty-ninth	148 00
16297	Both	Farrell	Archer avenue	Lyman	820 00
16298	Both	Union avenue	Thirty-third	Thirty-ninth	500 00
16299	South	Forty-sixth	Wood	Paulina	220 00
16300	East	Greenwood avenue	Fifty-fourth place	Fifty-fifth	230 00
16301	Both	Thirty-second	Emerald avenue	Courtland avenue	8,400 00
16302	Both	Lowe avenue	Twenty-sixth	Thirty-ninth	12,150 00
16303	West	Union	100 feet south of Ninetieth	Ninetieth	75 00
16304	West	Blanchard avenue	Forty-third	Thirty-ninth	820 00
16305	Both	Dreyer	Fifty-first	Fifty-third	620 00
16306	Both	Lock	Archer avenue	Fuller	260 00
16307	Both	Wright	Sixty-third	Sixty-fifth	110 00
16308	East	Wright	Eightieth	Eighty-second	200 00
16309	Both	Sixty-ninth	Vincennes avenue	Halsted	1,280 00
16310	Both	Forty-eighth	Western avenue	Robey	480 00
16311	Both	Lincoln	Forty-seventh	Fifty-fifth	380 00
16312	Both	Howard	One Hundred and Fifteenth	One Hundred and Nineteenth	380 00
16313	Both	Greenwood avenue	Seventy-first	Seventy-fifth	270 00
16314	Both	Ellis avenue	Seventy-first	South Chicago avenue	480 00
16315	Both	One Hundred and Eighteenth	Indiana avenue	Dearborn	380 00
16316	North	Seventy-sixth	Greenwood avenue	Stony Island avenue	360 00
16317	Both	Langley avenue	Sixty-fourth	Sixty-fifth	210 00
16318	South	Maple avenue	Homan avenue	Webb avenue	220 00
16319	Both	Fifty-eighth	C. & G. T. R. R.	Eberhart avenue	180 00
16320	South	Sixty-eighth	St. Lawrence avenue	Cottage Grove avenue	280 00
16321	Both	Seventy-ninth	Stony Island avenue	Ford avenue	4,500 00
16322	North	Fifty-sixth	Stewart avenue	Wentworth avenue	840 00
16323	Both	Stewart avenue	Sixty-third	Normal parkway	650 00
16324	South	Sixty-fourth	Webb avenue	Homan avenue	260 00
16325	South	Maple avenue	Homan avenue	Webb avenue	280 00
16326	North	Maple avenue	Pittsfield avenue	C. & G. T. R. R.	170 00
16327	Both	Sixty-sixth	Stewart avenue	Wright	260 00
16328	Both	Sixty-fifth	Cooper	P., C. & St. L. R. R.	130 00
16329	North	Englewood avenue	Eberhart avenue	Webb avenue	270 00
16330	West	West Fiftieth	Lake	Madison	450 00
16331	Both	Grove place	Sixty-fourth	Sixty-fifth	260 00

## STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warr'nt	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
16332	Both	Jasper	Fortieth.....	Forty-second.....	\$ 425 00
16333	Both	Ada.....	Sixty-second.....	Sixty-third.....	200 00
16334	Both	Lincoln.....	Seventieth.....	Seventy-first.....	220 00
16335	West	Cottage Grove avenue.....	Sixty-third.....	Sixty-seventh.....	660 00
16336	Both	Fifty-third.....	State.....	Indiana avenue.....	100 00
16337	East	Michigan avenue.....	One Hundred and Fifteenth.....	One Hundred and Twenty-third.....	490 00
16338	Both	One Hundred and Twelfth.....	Michigan avenue.....	Butterfield avenue.....	190 00
16339	Both	One Hundred and Seventeenth.....	Michigan avenue.....	Front.....	250 00
16340	South	One Hundred and Fifteenth.....	Howard.....	Front.....	179 50
16341	South	One Hundred and Fifteenth.....	State.....	Howard.....	110 00
16342	Both	Yale.....	Sixty-seventh.....	Sixty-ninth.....	260 00
16343	North	One Hundred and Eleventh place.....	Michigan avenue.....	State.....	150 00
16344	North	One Hundred and Eighteenth.....	Indiana avenue.....	Front.....	290 00
16345	East	Michigan avenue.....	One Hundred and Eleventh.....	One Hundred and Thirteenth.....	360 00
16346	West	Indiana avenue.....	One Hundred and Seventh.....	One Hundred and Eleventh.....	230 00
16347	North	Forty-second.....	Emerald avenue.....	Wallace.....	230 00
16348	South	Thirty-fourth.....	Archer avenue.....	Oakley avenue.....	420 00
16349	West	Champlain avenue.....	Thirty-third.....	Thirty-fourth.....	160 00
16350	Both	Wentworth avenue.....	Sixty-fourth.....	Sixty-fifth.....	210 00
16351	East	School.....	One Hundred and Second.....	C., K., I. & P. Ry.....	180 00
16352	Both	Union avenue.....	Forty-seventh.....	Garfield boulevard.....	750 00
16353	Both	Augusta.....	Kedzie avenue.....	Homan avenue.....	310 00
16354	South	Augusta.....	Central Park avenue.....	Kedzie avenue.....	350 00
16355	North	West Chicago avenue.....	Sheridan avenue.....	Homan avenue.....	120 00
16356	Both	Homan avenue.....	Twenty-second.....	Twenty-sixth.....	310 00
16357	Both	Chauncey avenue.....	Seventy-sixth.....	Seventy-seventh.....	118 00
16358	Both	Augusta.....	Seymour.....	California avenue.....	620 00
16359	South	One Hundred and Tenth.....	Wentworth avenue.....	C. & E. I. R. R.....	140 00
16360	Both	Wentworth avenue.....	One Hundred and Seventh.....	One Hundred and Eleventh.....	300 00
16361	Both	Bremen.....	Myrtle avenue.....	Cromwell.....	310 00
16362	Both	Clybourn avenue.....	Wrightwood avenue.....	Diversey.....	420 00
16363	South	Bloomington road.....	California avenue.....	Kedzie avenue.....	740 00
16364	Both	Fulton.....	West Forty-eighth.....	West Fifty-second.....	1,340 00
16365	Both	Lincoln avenue.....	Addison avenue.....	Grace.....	870 00
16366	Both	Chanay.....	Point.....	North terminus.....	130 00
16367	Both	Courtland.....	Western avenue.....	Kedzie avenue.....	1,570 00

16368	Both.	Fullerton avenue.	River.	Western avenue.	1,380 00
16369	Both.	Heine.	North avenue.	Courtland.	150 00
16370	East.	Humboldt.	Wabansia avenue.	Bloomingdale road.	125 00
16371	Both.	Lister.	Webster avenue.	Robey.	600 00
16372	North.	Cornelia.	Clark.	Racine avenue.	130 00
16373	Both.	Sixtieth.	Halsted.	Ashland avenue.	990 00
16430	Both.	Robey.	Armitage avenue.	Fullerton avenue.	110 00
16431	South.	Washington.	St. James avenue.	Park avenue.	153 00
16432	Both.	Orchard.	Fullerton avenue.	Diversey.	569 60
16433	Both.	Racine avenue.	Clybourn avenue.	Fullerton avenue.	560 00
16434	Both.	Washington avenue.	Palmer.	C. & N.-W. Ry.	140 00
16435	Both.	Maplewood avenue.	Division.	North avenue.	450 00
16436	Both.	Rockwell.	Division.	Rockwell.	390 00
16437	Both.	Potomac avenue.	Western avenue.	Wood.	210 00
16438	Both.	Lull place.	Milwaukee avenue.	Thirtieth.	1,400 00
16439	Both.	Hamlin avenue.	Twenty-sixth.	Blue Island avenue.	1,590 00
16440	Both.	Lincoln.	West Nineteenth.	Eighteenth.	1,850 00
16441	Both.	Leavitt.	Blue Island avenue.	Fullerton avenue.	530 00
16442	West.	Sheridan.	Armitage avenue.	Hoynes avenue.	550 00
16443	Both.	West Seventeenth.	Wood.	Lawndale avenue.	440 00
16444	Both.	Goodwin.	Homan avenue.	Seventy-ninth.	430 00
16445	West.	Greenwood avenue.	Seventy-fifth.	Lawndale avenue.	490 00
16446	Both.	Palatine avenue.	Homan avenue.	Seventh-sixth.	140 00
16447	West.	Shell avenue.	Seventy-fifth.	Greenwood avenue.	250 00
16448	North.	Seventy-sixth.	Drexel avenue.	Seventy-ninth.	240 00
16449	East.	Woodlawn avenue.	Seventy-sixth.	North avenue.	100 00
16450	Both.	Avers avenue.	Grand avenue.	Halsted.	150 00
16451	Both.	Otto.	Clark.	Crawford avenue.	320 00
16452	Both.	Prince.	Ridgeway avenue.	Ashland avenue.	160 00
16453	Both.	Roscoe.	Lincoln avenue.	South Chicago avenue.	180 00
16454	East.	Ellis avenue.	Seventy-second.	California avenue.	480 00
16455	Both.	Thomas.	Western avenue.	Spaulding avenue.	138 00
16456	South.	Scott.	Homan avenue.	Linden avenue.	180 00
16457	West.	Selwyn avenue.	Montrose boulevard.	Armitage avenue.	300 00
16458	Both.	Rockwell.	North avenue.	Kedzie avenue.	140 00
16459	North.	North avenue.	Central Park avenue.	Fifty-fifth.	720 00
16460	Both.	Wood.	Forty-seventh.	Lincoln.	210 00
16461	Both.	Hervey.	Robey.	Crossing.	110 00
16462	West.	Mendell.	Clybourn place.	Thirtieth.	370 00
16463	Both.	Quinn.	Archer avenue.	Butterfield.	690 00
16464	Both.	Stanwood avenue.	Indiana avenue.	Armitage avenue.	130 00
16465	Both.	Seymour.	North avenue.		

## STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warrant	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
16466	Both.	Cooper	Sixty-third.	Sixty seventh.	\$ 740 00
16467	Both.	Eighteenth.	Homan avenue.	Central Park avenue.	250 00
16468	East.	St. Lawrence avenue.	Sixty-eighth.	South Chicago avenue.	260 00
16469	West.	Western avenue.	Diversey.	River.	440 00
16470	North.	Seventy-sixth.	I. C. R. R.	Shell avenue.	270 00
16471	East.	Cottage Grove avenue	Fifty-first.	Fifty-fifth	2,110 00
16472	Both.	One Hundred and Sixteenth.	Wentworth avenue.	Front.	660 00
16473	Both.	Frankfort.	Robey	Hoyle avenue.	220 00
16474	East.	Wallace.	Thirty-ninth.	Root.	210 00
16475	West.	Robey	Archer avenue.	Thirty-first.	660 00
16476	West.	Oakley avenue.	C. & A. R. R.	Thirty-fourth.	70 00
16477	East.	Leavitt	Thirty-third.	Thirty-fourth.	45 00
16478	North.	Thirty-third.	Leavitt	Archer avenue.	460 00
16479	Both.	Sixty-ninth.	Prairie avenue.	Vincennes avenue.	250 00
16480	Both.	Eightieth.	Woodlawn avenue	Nutt avenue.	360 00
16481	Both.	Escanaba avenue.	Ninety-seventh.	Ninety-eighth.	48 00
16482	East.	Escanaba avenue.	Ninety-fifth.	Ninety-seventh.	110 00
16483	East.	Ewing avenue.	Ninety-second.	Ninety-fifth.	420 00
16484	Both.	Eighty-ninth.	I. C. R. R.	Saginaw avenue.	650 54
16485	Both.	Eighty-eighth.	I. C. R. R.	South Chicago avenue.	860 00
16486	South.	Fifty-ninth.	Lafin.	Loomis.	250 00
16487	Both.	Grand avenue	West Fifty-first.	Austin avenue.	2,310 00
16488	Both.	May	Sixty-eighth.	Seventy-fifth.	730 00
16489	Both.	Eighty-first.	Woodlawn avenue	Nutt avenue.	430 00
16490	Both.	Greenbay avenue	Eighty-third.	Eighty-sixth.	720 00
16491	North.	Fiftieth.	Morgan.	Throop.	500 00
16492	Both.	Morgan.	Sixty-eighth.	Seventy-fifth	270 00
16493	Both.	Notre Dame avenue.	One Hundredth.	One Hundred and Fourth.	570 00
16494	North.	Sixty-sixth.	Sherman.	Halsted.	220 00
16495	Both.	Sumner avenue.	Eighty-sixth.	Eighty-seventh	180 00
16496	West.	South Chicago avenue.	Exchange avenue.	89 feet north.	137 00
16497	North.	Sixty-third.	South Park avenue.	Cottage Grove avenue.	980 00
16498	Both.	Ambrose.	Wood.	Leavitt.	345 00
16499	Both.	Emerald avenue.	Forty-first.	Forty-third.	820 00
16500	North.	Seventy-first.	Lawrence avenue.	Cottage Grove avenue.	280 00
16501	West.	State	Sixty-fourth.	234 feet north of Sixty-fourth	117 00

16502	Both	Buffalo avenue.	Eighty-second.	Eighty-fourth.	280 00
16503	East	Carlin avenue.	Seventy-ninth.	Eightieth.	190 00
16504	Both	Houston avenue.	Eighty-third.	Illinois avenue.	310 00
16517	North.	Eighty-second.	Halsted.	C. R. I. & P. Ry.	230 50
16518	Both	Fremont.	Willow.	Belden avenue	600 00
16521	Both	Forty-third	State	Halsted.	6,905 80
16525	Both	Vine	Division	Vedder	380 35
16546	West	Halsted	Sixty-fifth.	Sixty-ninth.	1,800 00
16553	South.	Archer avenue.	Johnson avenue.	Forty-seventh.	990 98
16554	Both	Gordon	State	Butterfield	54 26
16555	East	State	Fifty-fifth.	Sixty-third	3,562 40
16708	Both	Loomis	Fifty-ninth	Sixty-third	700 00
16709	Both	Ninety-seventh.	Escanaba avenue.	Exchange avenue.	60 00
16711	Both	Hoyle.	Washington boulevard.	Polk	1,500 00
16712	Both	Sheffield.	Willow	Centre.	98 00
16713	Both	Wellington	Perry	Ashland avenue	80 00
16714	Both	Iowa.	Seymour	California avenue.	760 00
16715	Both	Monticello avenue.	Grand avenue.	M. & St. P. R. R.	250 00
16716	Both	Dunning.	Southport.	Ashland avenue.	440 00
16717	Both	Talman avenue.	Ogden.	Twelfth.	310 00
16718	West.	Western avenue.	Roscoe boulevard.	Byron.	780 00
16719	East.	Dickson	North avenue.	Wabansia avenue.	62 50
16720	Both	Troy.	West Twenty-sixth.	50 feet north	80 00
16721	North.	Twenty-sixth.	Sacramento avenue.	Kedzie avenue.	460 00
16722	Both	Champaign avenue.	Sixty-seventh.	Sixty-ninth.	680 00
16723	Both	Gordon.	Halsted.	Hanover.	920 00
16724	Both	Seventieth court.	St. Lawrence avenue.	Cottage Grove avenue.	250 00
16725	East	St. Lawrence avenue	Seventy-first.	P., Ft. W. & C. Ry.	250 00
16726	Both	Fortieth court	Wallace.	Wright	175 00
16727	Both	Bristol.	Stewart avenue.	Atlantic.	390 00
16728	Both	Williams.	Forty-third.	Wilson.	260 00
16729	Both	Arthur avenue.	Eighty-second.	Illinois avenue.	360 00
16730	Both	Rond avenue	Eighty-second.	Illinois avenue.	770 00
16731	Both	Mackinaw avenue.	Eighty-third.	Eighty-seventh.	570 00
16732	Both	Ontario avenue.	Eighty-third.	Illinois avenue	660 00
16733	Both	Seventy-seventh	Ford	Lake avenue.	990 00
16734	East	Railroad avenue.	Seventy-fifth.	Seventy-ninth.	560 00
16735	Both	Fifty-eighth.	Indiana avenue.	South Park avenue.	720 00
16736	Both	Escanaba avenue.	Eighty-seventh	Ninety-first.	600 00
16737	Both	Sixty eighth.	Prairie avenue.	State	410 00
16738	Both	Seventieth.	Indiana avenue.	State.	770 00
16739	West.	Central Park avenue.	Wabansia avenue.	North avenue.	370 00

## STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warrant	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
16792	Both.	Nutt.	West Sixteenth.	West Eighteenth.	\$ 43 00
16793	Both.	Fifty-fifth.	Kedzie avenue.	C. & G. T. R. R.	270 00
16794	Both.	Franklin.	St. James avenue.	Jefferson avenue.	200 00
16795	South.	Ingraham.	C. & N.-W. Ry.	Elston avenue.	300 00
16796	South.	Madison.	Jefferson avenue.	Holcomb.	350 00
16797	West.	Houston avenue.	Eighty-third.	Eighty-fourth.	160 00
16798	East.	Kingsbury avenue.	Kinzie.	Railroad track.	150 00
16799	South.	North Fifty-ninth.	Lincoln avenue.	100 rods west of Kedzie avenue.	710 00
16800	North.	North Fifty-ninth.	Lincoln avenue.	Kedzie avenue.	1,500 00
16801	Both.	Oakwood avenue.	Blanchard avenue.	Hart avenue.	370 00
16802	North.	Graceland avenue.	Western avenue.	Tuscola.	250 00
16803	South.	Marvin avenue.	Western avenue.	Oakley avenue.	90 00
16804	West.	Kedzie avenue.	Fifty-ninth.	Sixty-seventh.	1,157 00
16805	Both.	Langley avenue.	Sixty-seventh.	Sixty-eighth.	180 00
16806	Both.	Keefe avenue.	P., Ft. W. & C. Ry.	Sixty-ninth.	130 00
16807	North.	Fifty-eighth.	Stewart avenue.	240 feet west.	120 00
16808	Both.	Ford.	Wallace.	Stewart avenue.	530 00
16809	East.	Lundy Lane.	Thirty-third.	Thirty-fourth.	220 00
16811	North.	Follansbee.	Milwaukee avenue.	Humboldt boulevard.	460 00
16907	North.	Lawrence avenue.	Forty-first.	Forty-second.	170 00
16908	Both.	One Hundred and Second.	Park avenue.	Halsted.	360 00
16909	Both.	Sholto.	Taylor.	West Eleventh.	200 00
16910	Both.	Seventy-ninth.	Railroad tracks.	Madison avenue.	260 00
16911	Both.	Forty-sixth.	State.	Armour avenue.	170 00
16912	Both.	Forty-fifth court.	State.	Wentworth avenue.	600 00
16913	Both.	Arthur avenue.	Seventy-ninth.	Eightieth.	290 00
16914	South.	Cheltenham place.	Coles avenue.	Bond avenue.	110 00
16915	Both.	Eighty-first.	Edwards avenue.	Ontario avenue.	560 00
16916	Both.	Duncan avenue.	Seventy-seventh.	Seventy-ninth.	770 00
16917	West.	Howard.	Ninety-ninth.	Pearl.	90 00
16918	West.	Muskegon avenue.	One Hundred and Fourth.	One Hundred and Sixth.	440 00
16919	Both.	Ninety-fifth.	Commercial avenue.	Escanaba avenue.	336 00
16920	Both.	Ninety-second.	Commercial avenue.	Exchange avenue.	350 00
16921	South.	Pearl.	Charles.	Prospect avenue.	155 00
16922	South.	Schuber.	C., R. I. & P. Ry.	School.	118 00
16923	East.	Winston avenue.	Howe.	Vincennes avenue.	120 00

16924	East	Stony Island avenue.	Sixty-ninth.	Seventy-first.	270 00
16926	Both.	Fifty-second.	Wentworth avenue.	Princeton avenue.	280 00
16926	West.	Charles.	Ninety-ninth.	One Hundred and Third.	670 00
16927	Both.	Drexel avenue.	Seventy-first.	South Chicago avenue.	170 00
17026	South.	West North avenue.	Western avenue.	California avenue.	510 00
17072	Both.	West Division.	Homan avenue.	Grand avenue.	100 00
17073	East.	Grant.	C. & A. R. R.	Smith avenue.	190 00
17074	South.	Montrose boulevard.	Holcomb avenue.	Holcomb avenue.	900 00
17075	West.	St. James avenue.	Franklin.	California avenue.	180 00
17076	North.	West Chicago avenue.	Seymour.	California avenue.	820 00
17077	Both.	West Twenty-fourth.	Whipple.	St. Louis avenue.	130 00
17078	West.	Austinville avenue.	Lawrence avenue.	Maynard avenue.	200 00
17079	North.	Franklin.	Jefferson avenue.	Milwaukee avenue.	400 00
17080	Both.	Lincoln.	Twelfth.	Fifteenth.	2,780 00
17081	Both.	Leavitt.	Thirteenth.	Fourteenth.	1,080 00
17082	North.	Diversey.	California avenue.	Milwaukee avenue.	860 00
17083	South.	West North avenue.	Fifty-second.	Hosmer.	150 00
17084	West.	Homan avenue.	Allen avenue.	Centre avenue.	100 00
17085	West.	Crawford avenue.	Courtland.	Armitage avenue.	280 00
17086	North.	Montrose boulevard.	Milwaukee avenue.	Jefferson avenue.	250 00
17087	South.	Bremen.	Oakley avenue.	Western avenue.	60 00
17088	South.	Clark.	Milwaukee avenue.	C. M. & St. P. Ry.	980 00
17089	North.	Edbrook place.	Western avenue.	Powell avenue.	70 00
17090	West.	Humboldt.	Palmer avenue.	Dickens avenue.	260 00
17091	South.	Pleasant place.	Western avenue.	Powell avenue.	74 00
17092	Both.	Southport avenue.	Graceland avenue.	Waveland avenue.	980 00
17093	South.	Graceland avenue.	Perry.	Clark.	150 00
17095	North.	Kimbell avenue.	Tremont.	Washington avenue.	180 00
17096	Both.	Washtenaw avenue.	North avenue.	Courtland.	560 00
17097	East.	Evanston avenue.	Aberdeen.	North Fifty-ninth.	220 00
17098	North.	West Randolph.	Forty-fourth.	Forty-sixth.	50 00
17099	Both.	West Thirty-eighth.	Ashland avenue.	Wood.	900 00
17100	West.	Oakley avenue.	West Indiana.	West Ohio.	161 00
17101	North.	Webster avenue.	Clark.	Eastern terminus.	270 00
17105	South.	Aldine.	Evanston avenue.	Lake Michigan.	350 00
17111	South.	Humboldt avenue.	Kedzie avenue.	Kimbell avenue.	270 00
17118	Both.	Armitage avenue.	California avenue.	Kedzie avenue.	640 00
17119	Both.	Commercial avenue.	Clybourn place.	North avenue.	680 00
17121	East.	California avenue.	Diversey.	Belmont avenue.	300 00
17124	Both.	Milwaukee avenue.	North avenue.	Armitage avenue.	3,950 00
17125	Both.	Willis court.	West Thirtieth.	N. P. Ry.	960 00
17127	Both.	West Polk.	Central Park avenue.	Lawndale avenue.	270 00



## STATEMENT OF ASSESSMENTS FOR LAYING PLANK SIDEWALKS—CONTINUED.

No. of Warrant	SIDE OF STREET.	NAME OF STREET.	FROM	TO	AMOUNT.
17128	Both.	Taylor.	Central Park avenue.	Lawndale avenue.	\$ 460 00
17129	Both.	Forquer.	Central Park avenue.	Lawndale avenue.	150 00
17130	Both.	Lawndale avenue.	Harrison.	Taylor.	250 00
17131	Both.	Thirty-fourth.	Oakley avenue.	Western avenue.	155 00
17134	Both.	Thirty-third court.	Archer avenue.	Wood.	290 00
17135	East.	Kedzie avenue.	North avenue.	Armitage avenue.	630 00
17136	Both.	Webster avenue.	Elston avenue.	Leavitt.	750 00
17137	Both.	Lawndale avenue.	Grand avenue.	C. M. & St. P. Ry.	350 00
17141	Both.	Auburn avenue.	Thirty-first.	Thirty-fifth.	900 00
17142	Both.	West Forty-eighth.	Kinzie.	Chicago avenue.	210 00
17143	East.	Bond avenue.	Seventy-first.	Seventy-fourth.	540 00
17145	Both.	Seventy-eighth.	Reynolds.	Lake avenue.	840 00
17146	West.	Commercial avenue.	P., Ft. W. & C. Ry.	200 feet south of Ninety-fifth.	280 00
17147	East.	Indiana avenue.	Lincoln avenue.	One Hundred and Thirty-third.	470 00
17148	Both.	Kedzie avenue.	Van Buren.	West Twelfth.	1,400 00
17150	Both.	Lincoln avenue.	Indiana avenue.	One Hundred and Thirty-eighth.	350 00
17151	North.	Ninety-eighth.	Commercial avenue.	East to railroad.	220 00
17152	North.	Thirty-first.	Central Park avenue.	Kedzie avenue.	950 00
17153	North.	Twenty-eighth.	Central Park avenue.	Kedzie avenue.	840 00
17154	North.	Twenty-seventh.	Central Park avenue.	Kedzie avenue.	390 00
17156	North.	North side of Archer avenue.	Thirty-ninth.	Kedzie avenue.	1,165 00
17157	West.	Blair avenue.	Canalport avenue.	Twentieth.	230 00
17158	Both.	Ellis avenue.	Seventy-first.	Seventy-fifth.	290 00
17159	West.	Greenwood avenue.	Seventy-ninth.	Eighty-second.	240 00
17160	East.	Woodlawn avenue.	Seventy-first.	Seventy-fifth.	800 00
17161	North.	Twenty-fifth.	Hamlin avenue.	Crawford avenue.	460 00
17162	Both.	Ninety-seventh.	Avenue L.	Avenue F.	860 00
17164	Both.	Commercial avenue.	Tuttle avenue.	Webster avenue.	135 00
17166	Both.	Webster avenue.	Clark.	Ravenswood place.	420 00
17167	Both.	West Ravenswood park.	Webster avenue.	North Fifty-ninth.	170 00
17170	Both.	Campbell avenue.	Ogden avenue.	West Twelfth.	300 00
17173	Both.	Maple avenue.	Prospect avenue.	Diversey.	730 00
17203	North.	Ninety-eighth.	Avenue K.	Avenue F.	480 00
17204	South.	Ninety-first.	Exchange avenue.	South Chicago avenue.	200 00
17209	South.	One Hundred and Seventh.	Hoxie avenue.	Torrence avenue.	140 00
17214	North.	Howe.	C, R. I. & P. Ry.	Charles.	320 00

17315	Both.	Dobson avenue.	Seventy-first.	Seventy-fifth.	296 00
17320	North.	Forty-fifth.	Wood.	Ashland avenue.	450 00
17323	Both.	Forty-fourth.	Wood.	Ashland avenue.	720 00
17330	Both.	Fullerton avenue.	Western avenue.	Kedzie avenue.	2,100 00
17331	Both.	Cottage Grove avenue.	Forty-third.	Fifty-first.	9,750 00
17335	North.	Sixty-sixth.	Webb avenue.	Kedzie avenue.	280 00
17344	South.	Twenty-fourth.	Hamlin avenue.	Crawford avenue.	460 00
17345	East.	Webb avenue.	Fifty-ninth.	Sixty-seventh.	636 90
17346	Both.	Seventy-third.	Cottage Grove avenue.	Stony Island avenue.	1,278 90
17382	Both.	West Fortieth place.	California avenue.	Underwood avenue.	350 00
17383	Both.	Washtenaw avenue.	West Twelfth.	Twenty-second.	565 00
17388	Both.	Western avenue.	Chicago avenue.	Indiana.	1,980 00
17389	Both.	Eighty-third.	Commercial avenue.	Ontario avenue.	750 00
17319	South.	Diversey.	Milwaukee avenue.	Crawford avenue.	978 85
17323	Both.	Sixtieth.	State.	South Park avenue.	960 00
17343	North.	Montrose boulevard.	Elston avenue.	Vernon avenue.	403 05
17343	Both.	Mozart.	North avenue.	Armitage avenue.	386 25
17353	Both.	Sacramento avenue.	Kinzie.	C., M. & St. P. Ry.	200 00
17356	Both.	Armour avenue.	Forty-fourth.	Forty-seventh.	230 00
17357	West.	Bond avenue.	Seventy-ninth.	Eightieth.	100 00
17372	South.	Sixteenth.	Halsted.	Canal.	130 00
17374	South.	Ninety-third.	Harbor avenue.	Commercial avenue.	460 00
17375	North.	Thirty-ninth.	Wood.	Western avenue.	333 84
17376	Both.	Wright.	Root.	Forty-seventh.	700 00
17404	North.	Twenty-ninth.	Central Park avenue.	Kedzie avenue.	670 00
17406	Both.	Wisner avenue.	Milwaukee avenue.	Garden avenue.	669 00
17408	Both.	Frederick.	Monticello avenue.	Crawford avenue.	450 00
17482	Both.	Eightieth.	Reynolds.	Railroad avenue.	230 00
Total.					\$373,163 87

## STATEMENT OF ASSESSMENTS FOR LAYING STONE AND CEMENT SIDEWALKS.

No. of Warrant.	SIDE OF STREET AND IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14537	Both—Cement	Lake avenue.	Thirty-ninth.	Forty-seventh.	\$ 2,250 00
14545	Both—Stone.	Sixty-second.	Stony Island avenue.	I. C. R. R.	1,757 00
14552	Both—Stone.	Columbia place.	Lake.	Kinzie.	4,800 00
14564	Both—Stone.	Douglas Park place.	California avenue.	Fairfield.	1,880 00
14607	Both—Cement.	Maryland avenue.	Sixty-third.	Sixty-fifth.	1,555 88

## STATEMENT OF ASSESSMENTS FOR LAYING STONE AND CEMENT SIDEWALKS—CONTINUED.

No. of Warrant	SIDE OF STREET AND IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
14614	Both—Stone.	Park row.	Michigan avenue.	I. C. R. R.	\$ 500 00
14676	South—Stone.	Twenty-sixth.	State	South Park avenue.	3,200 00
14688	Both—Cement.	Vernon avenue	Twenty-ninth.	Thirty first.	2,000 00
14693	Both—Stone.	Lake avenue	Fiftieth.	Fifty-first.	510 00
14751	Both—Stone.	West Twelfth.	California avenue.	Albany avenue.	6,138 55
14783	Both—Stone.	West Congress.	Ashland avenue.	Ogden avenue.	3,819 83
14843	Both—Cement.	Evans avenue.	Forty-seventh.	Forty-ninth.	3,701 58
14871	Both—Stone.	Fulton.	Ashland avenue.	Western avenue.	26,000 00
14934	Both—Cement	Winthrop place.	West Polk.	Taylor.	892 50
14980	Both—Cement.	Champlain avenue.	Forty seventh.	Fiftieth.	1,789 06
15031	South—Stone.	Twenty-third.	Lawndale avenue.	Hamlin avenue.	1,950 00
15144	Both—Stone.	Wabash avenue.	Van Buren.	Twelfth.	18,518 41
15145	Both—Cement.	Winthrop.	Lawrence avenue.	North Fifty-ninth.	4,571 78
15146	Both—Cement.	Monroe avenue.	Fifty-fifth.	Fifty-eighth.	1,040 00
15217	West—Cement.	Yale.	Sixty-ninth.	Seventieth.	970 00
15218	North—Stone	Thirty-third	State.	Vernon avenue.	3,550 00
15221	North—Cement.	Thirty-sixth.	Ellis avenue.	Lake avenue.	475 00
15245	Both—Stone.	Indiana avenue.	Egan avenue	Forty-third.	10,922 00
15292	South—Cement	Thirty-sixth place.	Vincennes avenue.	Stanton avenue.	1,200 00
15293	Both—Cement.	Forrestville avenue.	Forty-ninth.	Fifty first.	3,700 00
15294	Both—Cement.	Loomis	Madison	Van Buren.	3,200 00
15295	South—Cement	Fifty-seventh.	Jefferson avenue	Forty-first.	200 00
15296	West—Cement.	Michigan terrace.	Fortieth.	Forty-first.	1,710 00
15297	West—Cement.	Bennett avenue.	Seventy-second.	Seventy-fifth.	2,820 00
15298	Both—Cement.	Fiftieth court.	Vincennes avenue.	Cottage Grove avenue.	6,750 00
15299	Both—Cement.	Forty-eighth.	Cottage Grove avenue.	St. Lawrence avenue.	3,050 00
15300	East—Stone.	Ogden avenue.	Madison.	Ashland avenue.	1,300 00
15301	Both—Cement.	Madison avenue.	Forty-seventh.	Fifty-third	7,750 00
15302	Both—Cement.	Kimbark avenue.	Fifty-seventh.	Fifty-eighth.	1,550 00
15316	Both—Cement.	Vincennes avenue.	Forty-third.	Forty-seventh.	7,060 00
15318	East—Cement.	Langley avenue.	Thirty-seventh.	Thirty-ninth.	420 00
15319	East—Cement	Langley avenue.	Thirty-seventh.	Thirty-ninth.	1,421 00
15321	Both—Cement.	Drexel boulevard	Sixtieth.	Sixty-first.	1,800 00
15408	Both—Cement.	Burling.	Dewey court.	Wrightwood avenue.	130 00
15422	Both—Cement.	Langley avenue.	Forty-first.	Bowen avenue.	830 00
15429	Both—Cement.	Elmwood place.	Thirty-seventh.	Thirty-eighth.	523 00

15438	East—Stone.	State	Ohio	First alley south.	300 00
15439	Both—Cement.	Boulevard Place.	Grand boulevard.	Vincennes avenue.	1,640 00
15438	Both—Cement.	Forty-first	Cottage Grove avenue.	Vincennes avenue.	1,900 00
15440	North—Cement.	Diversey	Clark.	First alley east.	288 00
15444	East—Cement.	Sheffield avenue.	State.	Graceland avenue.	1,660 00
15447	Both—Cement.	Forty-first	State.	Grand boulevard.	5,620 00
15448	Both—Cement.	Forty-eighth	Cottage Grove avenue.	Drexel boulevard.	1,550 00
15461	Both—Stone.	Thirty-first	State.	Lake Park avenue.	14,920 00
15494	Both—Cement.	Prairie avenue.	Thirtieth.	Fifty-fifth.	33,326 00
15561	Both—Stone.	Ohio	State.	Cass.	700 00
15563	West—Cement	Hamlin avenue.	Kinzie.	Lake.	1,400 00
15568	East—Cement	Homan avenue.	Madison	Lake.	1,250 00
15601	North—Stone.	Thirty-second	Cottage Grove avenue.	First alley west.	2,690 00
15665	Both—Stone.	Cottage Grove avenue	Thirtieth.	Thirtieth.	5,361 29
15744	Both—Cement.	Jay.	Centre.	Fullerton avenue.	1,900 00
15745	Both—Cement.	Thirty-second court.	Cottage Grove avenue.	Groveland avenue.	411 20
15797	South—Stone.	Seventy-first.	Stony Island avenue.	Yates avenue.	11,871 85
15799	Both—Cement.	South Park avenue.	Thirtieth.	Twenty-sixth.	10,364 05
15800	Both—Stone	Madison	Halsted.	Paulina.	110,539 50
15808	Both—Stone	Groveland Park avenue	Thirtieth.	Thirtieth.	1,881 25
15877	East—Stone.	Oglesby avenue	Seventy-third.	Seventy-fifth.	2,890 55
15978	Both—Stone	Seventy-third	Jeffrey avenue.	Seventy-fifth.	10,300 00
15979	West—Cement.	Rissell avenue.	Seventy-third.	Seventy-fifth.	1,338 32
15980	East—Cement	Scipp avenue.	Seventy-first	Seventy-fifth.	2,906 00
15981	West—Stone.	Palmer avenue	Seventy-fourth	Seventy-fifth.	2,765 10
16002	Both—Stone.	Walnut.	California avenue	Kedzie avenue.	3,886 00
16128	Both—Cement	Woodlawn avenue.	Sixtieth.	Sixty-seventh.	8,749 90
16145	South—Stone.	Seventy-second	Jeffrey avenue.	Railroad avenue.	6,100 00
16267	West—Stone	Euclid avenue	Seventy-third.	Seventy-fourth.	1,475 00
16514	Both—Cement.	Indiana avenue	Forty-third.	Fifty-first	14,745 75
16516	Both—Cement.	Forty-third.	Ellis avenue.	Drexel boulevard	1,800 00
16519	Both—Stone.	Pearson.	State.	East terminus.	5,600 00
16527	Both—Stone	Cottage Grove avenue.	Twenty-sixth.	Thirtieth.	26,324 43
16583	Both—Stone.	Kinzie.	Wells	North State.	1,643 00
16592	Both—Cement	Langley avenue	Forty-third	Forty-fifth	8,180 77
16631	Both—Cement.	Vincennes avenue.	Thirtieth.	Forty-third.	679 48
16635	Both—Stone.	Lake Park avenue.	Thirtieth.	Thirtieth.	8,168 84
16636	East—Cement	Yates avenue.	Seventy-first.	Seventy-fifth.	1,270 00
16637	North—Cement.	Forty-first.	Lake avenue	Michigan terrace.	1,060 00
16812	Both—Cement.	Belle Plaine avenue.	Perry.	Ashland avenue.	2,960 00
16813	Both—Cement.	Sawyer avenue	Ogden avenue.	C. B. & Q. R. R.	80 00
16814	Both—Cement.	Groveland boulevard.	Twenty-ninth.	Thirtieth street.	

## STATEMENT OF ASSESSMENTS FOR LAYING STONE AND CEMENT SIDEWALKS—CONTINUED.

No. of Ward	SIDE OF STREET AND IMPROVEMENT.	NAME OF STREET.	FROM	TO	AMOUNT.
16815	Both—Cement.	Madison avenue.	Fifty-fifth.	Fifty-ninth.	\$ 690 00
16816	Both—Cement.	Sheridan avenue.	Sixtieth.	Sixty-seventh.	2,870 00
16817	Both—Cement.	Forty-second.	State.	Calumet avenue.	2,920 00
16818	Both—Cement.	Marshfield avenue.	Jackson boulevard.	Harrison.	640 00
16819	Both—Cement.	Union avenue.	Sixty-seventh.	Sixty-ninth.	96 20
16820	Both—Cement.	Bryant avenue.	Rhodes avenue.	Vincennes avenue.	1,380 00
16821	West—Cement.	Champlain avenue.	Forty-fourth.	Forty-fifth.	395 00
16822	Both—Cement.	Ellis avenue.	Forty-first.	Forty-seventh.	820 00
16823	Both—Cement.	Sheridan avenue.	Twelfth.	Fillmore.	640 00
17094	Both—Cement.	Fortieth.	Stanton avenue.	Vincennes avenue.	160 00
17102	North—Cement.	Fortieth.	Forty-first.	Forty-second.	1,280 00
17103	Both—Cement.	St. Lawrence avenue.	Forty-first.	Forty-seventh.	3,080 00
17104	Both—Cement.	St. Lawrence avenue.	Forty-first.	Forty-seventh.	3,080 00
17106	Both—Cement.	Dearborn.	Forty-first.	Forty-third.	1,750 00
17107	East—Cement.	Ellis avenue.	Forty-first.	Oakwood avenue.	300 00
17108	South—Cement.	Fortieth.	Wabash avenue.	Prairie avenue.	1,370 00
17109	South—Cement.	Oakwood avenue.	Ellis avenue.	Drexel boulevard.	278 00
17110	Both—Cement.	Madison avenue.	Fifty-third.	Fifty-fifth.	470 00
17112	Both—Cement.	Forty-eighth.	Indiana avenue.	Grand boulevard.	1,600 00
17113	West—Cement.	South Park avenue.	Fifty-first.	Fifty-fifth.	530 00
17114	Both—Cement.	Evans avenue.	Forty-second.	Forty-fourth.	1,160 00
17115	Both—Cement.	Forty-second.	Vincennes avenue.	Cottage Grove avenue.	2,080 00
17116	Both—Cement.	Forty-second.	Vincennes avenue.	Grand boulevard.	330 00
17117	Both—Cement.	Fortieth.	Drexel boulevard.	East terminus.	720 00
17120	Both—Cement.	Armour avenue.	Twenty-ninth.	Forty-first.	1,660 00
17123	Both—Cement.	Forty-eighth.	State.	Indiana avenue.	2,520 00
17123	Both—Cement.	Grace avenue.	Sixty-third.	Sixty-fifth.	3,020 00
17132	South—Cement.	Forty-ninth.	Ellis avenue.	Cottage Grove avenue.	940 00
17133	Both—Stone.	Fulton.	Hamlin avenue.	Columbia place.	2,080 00
17138	Both—Cement.	Everett avenue.	Lexington avenue.	Greenwood avenue.	910 00
17139	Both—Cement.	Everett avenue.	Lexington avenue.	Woodlawn avenue.	650 00
17140	Both—Cement.	Langley avenue.	Forty-sixth.	Forty-seventh.	1,010 00
17144	West—Cement.	Perry avenue.	Sixty-ninth.	Seventieth.	820 00
17149	Both—Cement.	La Fayette avenue.	Sixty-fifth.	Sixty-ninth.	3,080 00
16155	Both—Cement.	Rhodes avenue.	Forty-fifth.	Forty-ninth.	3,520 00
17163	Both—Cement.	Wellington avenue.	Lake View avenue.	Evanston avenue.	1,280 00
17165	Both—Cement.	Rhodes avenue.	Forty-third.	Forty-fifth.	260 00

17168	Both—Cement.	Cottage Grove avenue.	Oakwood avenue.	Forty-third.	3,560 00
17169	Both—Cement.	Calumet avenue.	Thirty-ninth.	Forty-second.	4,000 00
17171	South—Cement.	Forty-fourth place.	Vincennes avenue.	St. Lawrence avenue.	780 00
17172	North—Cement.	Forty-seventh.	Grand boulevard.	Drexel boulevard.	4,910 00
17284	North—Cement.	Twelfth.	Albany avenue.	California avenue.	3,400 00
17285	Both—Cement.	Fortieth.	Vincennes avenue.	Cottage Grove avenue.	898 00
17286	West—Cement.	Wabash avenue.	Thirty-ninth.	Fortieth.	910 00
17287	Both—Cement.	Winchester avenue.	Madison.	Harrison.	2,560 00
17290	Both—Cement.	Fifty-seventh.	Cottage Grove avenue.	Stony Island avenue.	6,760 00
17297	Both—Cement.	Warren avenue.	Rockwell.	California avenue.	1,467 20
17332	Both—Cement.	Forty-fifth.	Cottage Grove avenue.	Grand boulevard.	8,744 40
17346	Both—Cement.	Forty-fifth.	Michigan avenue.	Grand boulevard.	1,087 00
17360	Both—Stone.	Monroe.	Paulina.	Western avenue.	2,752 05
17373	Both—Cement.	Lexington avenue.	Fifty-fourth.	Forty-fifth.	2,950 00
17406	Both—Cement.	Sheldon.	Madison.	Lake.	1,040 00
17407	South—Cement.	Seventy-first.	Bond avenue.	East terminus.	710 00
17419	North—Cement.	Seventy-fourth.	Oglesby avenue.	Bond avenue.	2,800 00
17437	Both—Cement.	Forty-seventh.	State.	Grand boulevard.	4,446 14
TOTAL.					\$559,068 54

## STATEMENT OF ASSESSMENTS FOR LAYING WATER MAINS.

No. of Warr't	NAME OF STREET.	FROM	TO	AMOUNT.
14872	Seventy-second, Seventy-third and Seventy-fifth.	Jeffrey avenue.	Paxton avenue.	\$ 9,720 00
16301	Kinney avenue.	Seventy-second.	300 feet south.	640 87
16398	Yates avenue.	Seventy-first.	Seventy-fifth.	4,787 74
16359	Lexington avenue.	Central Park avenue.	Lawndale avenue.	699 46
16360	Lawndale avenue.	Harrison.	West Taylor.	1,598 35
16361	Portland avenue.	One Hundred and Fourteenth.	One Hundred and Fifteenth.	909 46
16362	Forquer.	Central Park avenue.	Lawndale avenue.	876 15
16363	Flournoy.	Central Park avenue.	Lawndale avenue.	699 45
16364	West Taylor.	Central Park avenue.	Lawndale avenue.	877 42
16365	West Thirty-ninth.	West Harrison.	West Twelfth.	3,380 03
16366	Fillmore.	Douglas Park boulevard.	Crawford avenue.	1,657 07
16367	West Polk.	Crawford avenue.	Douglas Park boulevard.	1,657 07
16368	West Taylor.	Crawford avenue.	Douglas Park boulevard.	1,657 07
16369	Flournoy.	Crawford avenue.	Douglas Park boulevard.	1,657 07
16370	Greshaw.	Crawford avenue.	Douglas Park boulevard.	1,657 07

## STATEMENT OF ASSESSMENTS FOR LAYING WATER MAINS—CONTINUED.

No. of Warrant	NAME OF STREET.	FROM	TO	AMOUNT.
16971	Lexington avenue.....	Crawford avenue.....	Douglas Park boulevard.....	\$1,657 07
16972	Woodlawn avenue.....	Eighty-first.....	Eighty-third.....	1,826 87
16973	Bonney avenue.....	Ogden avenue.....	West Eighteenth.....	1,401 85
16974	Kedzie avenue.....	West Twenty-seventh.....	Chicago river.....	6,620 02
16975	Justine.....	Fifty-ninth.....	Sixty-first.....	1,673 04
16976	Lawrence avenue.....	Huck avenue.....	Lincoln avenue.....	2,539 79
16977	Hamlin avenue.....	West Twenty-sixth.....	West Twenty-eighth.....	2,265 25
16978	Cornelia.....	Lincoln avenue.....	Paulina.....	439 97
17068	Washington boulevard.....	West Forty-fourth.....	West Forty-second.....	6,876 54
17069	Oakley avenue.....	Ryan.....	Fullerton avenue.....	654 68
17070	North side of Ogden avenue.....	Hamlin avenue.....	Avers avenue.....	487 86
17071	Avers avenue.....	North avenue.....	Grand avenue.....	2,553 59
17308	West Polk.....	Central Park avenue.....	Lawndale avenue.....	699 45
17390	Central Park avenue.....	West Harrison.....	Fillmore.....	3,147 05
17391	Williams.....	Sacramento avenue.....	Kedzie avenue.....	1,712 72
17392	Albany avenue.....	Ogden avenue.....	460 feet north of West Twenty-second.....	2,628 91
17397	Lafin.....	Forty-seventh.....	Forty-ninth.....	1,639 94
17398	Addison.....	Lincoln avenue.....	Paulina.....	1,033 74
17399	Commercial avenue.....	Cornelia.....	Addison.....	862 80
Total.....				\$73,175 41

## STATEMENT OF ASSESSMENTS FOR GASOLINE LAMP POSTS.

No. of Warrant	No. of Posts.	NAME OF STREET.	FROM	TO	AMOUNT.
15851	4	Almond.....	Taylor.....	Ashland avenue.....	\$ 72 00
16016	27	Hammond avenue.....	Diversey.....	Avondale avenue.....	405 00
16017	24	Wallace avenue.....	Diversey.....	Avondale avenue.....	364 00
16030	7	Francisco.....	Boulevard.....	Twenty-sixth.....	122 50
16031	4	Boulevard way.....	West Twenty-fifth.....	Boulevard.....	72 00
16032	20	Spaulding avenue.....	Douglas Park boulevard.....	Ogden avenue.....	335 00
16033	55	Kedzie avenue.....	Twenty-second.....	Thirty-first.....	852 50
16172	27	Fairfield avenue.....	Sixteenth.....	Twenty-second.....	438 75

No. of Warrant	No. of Posts	Albany avenue.	Twenty-fifth.	Twenty-sixth.	90 00
16178	5	Albany avenue.	Twenty-fifth.	Twenty-sixth.	90 00
16174	28	West Eighteenth.	Western avenue.	California avenue.	455 00
16190	29	Central Park avenue.	North avenue.	McLean avenue.	408 00
16192	26	Hancock.	North avenue.	McLean avenue.	408 00
16193	27	Ballou.	North avenue.	McLean avenue.	459 00
16746	6	Ashland avenue.	Webster avenue.	Tuttle avenue.	108 00
16747	17	Dayton.	Clybourn avenue.	Rees.	289 00
16748	13	Ashland avenue.	North Fifty-ninth.	Balmoral avenue.	204 00
16749	20	Fletcher.	Racine avenue.	Perry.	335 00
16750	13	Leavitt.	Wellington.	Belmont avenue.	321 00
16751	24	Wright.	Sulzer.	Lawrence avenue.	396 00
16752	12	Sunnyside avenue.	Robey.	Leavitt.	204 00
16753	11	Pine.	Ashland avenue.	East Ravenswood park.	187 00
16754	14	Sulzer.	Robey.	Leavitt.	238 00
16755	6	Thirty-fourth court.	Robey.	Lincoln.	108 00
16756	24	Lyman avenue.	Lawrence avenue.	Sulzer.	396 00
17226	12	Giddings avenue.	Robey.	Leavitt.	204 00
17227	13	Leland avenue.	Robey.	Leavitt.	221 00
17228	12	Jamot.	Robey.	Leavitt.	204 00
17270	15	East Ravenswood park.	North Fifty-ninth.	Balmoral avenue.	117 48
Total					\$7,984 28

## STATEMENT OF ASSESSMENTS FOR ERECTING DYOTT LAMPS.

No. of Warrant	No. of Posts	NAME OF STREET.	FROM	TO	AMOUNT.
14990	105	West Jackson.	Halsted.	Hoyne avenue.	\$1,338 75
17397	85	Sacramento avenue.	West Van Buren.	West Twelfth	595 00
Total					\$1,933 75

## STATEMENT OF ASSESSMENTS FOR ERECTING BOULEVARD LAMPS.

No. of Warrant	No. of Posts	NAME OF STREET.	FROM	TO	AMOUNT.
14949	12	Peoria.	Seventy-seventh.	Seventy-ninth.	\$396 00
14950	13	Green	Seventy-seventh.	Seventy-ninth.	396 00



## STATEMENT OF ASSESSMENTS FOR ERECTING BOULEVARD LAMPS—CONTINUED.

No. of Warr't	No. of Posts.	NAME OF STREET.	FROM	TO	AMOUNT.
15819	67	Fifty-first.....	Drexel avenue.....	East End avenue.....	\$2,882 00
15854	18	Union avenue.....	Sixty-ninth.....	Seventy-first.....	520 00
15855	7	Ruble.....	Sixteenth.....	Eighteenth.....	217 00
15856	2	Henry.....	Canal.....	Stewart avenue.....	118 00
15863	19	Jackson avenue.....	Fifty-fourth.....	Fifty-seventh.....	760 00
15873	28	Drexel avenue.....	Fifty-fifth.....	Fifty-ninth.....	1,092 00
15878	2	Forty-second.....	Calumet avenue.....	Grand avenue.....	85 00
15874	4	Star avenue.....	Sixty-third.....	Sixty-fourth.....	162 00
15875	18	Eastwood avenue.....	Halsted.....	Sheffield avenue.....	520 00
15876	7	Dickey.....	Seventy-fifth.....	Seventy-sixth.....	280 00
15877	18	Greenwood avenue.....	Fifty-third.....	Fifty-fifth.....	720 00
15878	9	Seventy-fourth.....	Stewart avenue.....	Vincennes avenue.....	360 00
15879	8	Fifty-seventh.....	Cottage Grove avenue.....	Drexel avenue.....	125 00
16086	30	Garfield boulevard.....	Morgan.....	Halsted.....	1,170 00
16181	29	Sixtieth.....	Cottage Grove avenue.....	Woodlawn avenue.....	928 00
16183	13	Fifty-ninth.....	Woodlawn avenue.....	Washington avenue.....	896 00
16176	7	Fifty-first.....	Cottage Grove avenue.....	Drexel boulevard.....	280 00
16178	11	Emerald avenue.....	Sixty-seventh.....	Sixty-ninth.....	440 00
16198	26	Forty-sixth.....	Grand boulevard.....	Drexel boulevard.....	1,014 00
16199	5	Wright.....	Sixty-sixth.....	Sixty-seventh.....	200 00
16743	17	Union avenue.....	Sixty-third.....	Sixty-sixth.....	680 00
17285	24	Indiana avenue.....	Sixtieth.....	Sixty-third.....	940 00
17245	7	Wright.....	Seventy-fifth.....	Seventy-sixth.....	280 00
<b>Total.....</b>					<b>\$14,461 90</b>

## STATEMENT OF ASSESSMENTS FOR LAMP POST CONNECTIONS.

No. of Warr't	No. of Posts.	NAME OF STREET.	FROM	TO	AMOUNT.
14953	36	North avenue.....	Monticello avenue.....	Kedzie avenue.....	\$ 612 00
14959	7	Emerald avenue.....	Forty-sixth.....	Forty-seventh.....	119 00
16217	6	Millard avenue.....	Twenty-eighth.....	Twenty-ninth.....	102 00
16218	20	Fillmore.....	California avenue.....	Kedzie avenue.....	400 00

15744	63	Armitage avenue	Kedzie avenue.	Crawford avenue	\$1,054 00
15779	20	West Taylor	Kedzie avenue.	Crawford avenue	340 00
15788	11	West Twenty-sixth	Rockwell.	Southwest boulevard.	187 00
		Total			\$2,814 00

## STATEMENT OF ASSESSMENTS FOR ERECTING GAS LAMP POSTS.

No. of Warrant	No. of Posts.	NAME OF STREET.	FROM	TO	AMOUNT.
14983	13	Sangamon	Garfield boulevard.	Fifty-seventh.	\$ 363 00
14946	4	Cooper.	Clybourn avenue.	Fullerton avenue.	123 00
14947	13	Paulina	Graceland avenue.	Berteaue avenue.	893 25
14948	54	Wabash avenue.	Fifty-fifth.	Sixty-third.	1,579 50
14951	21	Seventy-ninth	Sherman	Sangamon.	680 25
14953	11	Sixty-third.	Sangamon	Halsted.	863 75
14954	33	Bonney avenue	Ogden avenue.	Twenty-sixth.	1,111 50
14955	4	Nutt court.	West Nineteenth.	West Twentieth.	123 00
14956	4	West Twenty-first.	Johnson.	Halsted.	123 00
14957	6	West Congress.	Ogden avenue.	Ashland avenue.	181 50
14958	26	Harvard	California avenue.	Kedzie avenue.	928 50
14960	9	Hoynes avenue.	West Eighteenth	West Twenty-first.	272 25
14961	6	Johnson	Sixteenth.	Eighteenth.	181 50
14963	4	Washtenaw avenue.	Twelfth.	100 ft. north of Grenshaw.	123 00
14968	2	Kemper place.	Orchard.	Larrabee.	65 50
14964	16	Leavitt.	Asylum place.	Fullerton avenue.	484 00
14967	8	Centre avenue.	Austin avenue.	Kinzie.	95 75
14968	4	Osborne.	West Ohio	West Indiana.	123 00
14969	14	Churchill	Robey.	Leavitt.	423 50
14970	18	Coblenz.	Leavitt	Robey.	893 25
15664	33	St. Louis avenue	Kinzie.	West Chicago avenue.	917 00
15637	19	Potomac avenue.	Western avenue.	California avenue.	574 75
15636	8	West Twenty-second	Hamlin avenue.	Bonney avenue.	95 71
15639	24	Rockwell.	Division	North avenue.	740 00
15630	14	Forty-fifth.	Wallace.	Stewart avenue.	423 50
15631	2	Sixty-eighth.	Yale.	Wentworth avenue.	65 50
15632	18	May.	Wrightwood avenue.	Diversey	393 25
15633	12	Best avenue.	Wrightwood avenue.	Diversey	393 00
15634	16	Norwood avenue.	Kedzie avenue.	Homan avenue.	484 00
15635	13	Parnell avenue.	Twenty-ninth.	Thirty-first.	363 09

## STATEMENT OF ASSESSMENTS FOR ERECTING GAS LAMP POSTS—CONTINUED.

No. of Warr't	No. of Posts.	NAME OF STREET.	FROM	TO	AMOUNT.
15886	7	Honore.....	Seventieth.....	Seventy-first.....	\$ 211 75
15887	14	Myrtle.....	Taylor.....	Ashland avenue.....	128 00
15889	12	String.....	Seventieth.....	Canalport avenue.....	362 10
15840	7	Girard.....	Hervey.....	Armitage avenue.....	211 75
15841	7	Hayne avenue.....	Thirtieth.....	Fourteenth.....	211 75
15842	5	Eighteenth place.....	Brown.....	Johnson.....	151 25
15843	4	West Twentieth.....	Jefferson.....	Blair.....	123 00
15844	7	Homer.....	Leavitt.....	Oakley avenue.....	211 75
15846	6	West Seventeenth.....	Centre avenue.....	Fisk.....	181 50
15852	9	Jackson avenue.....	Fifty-third.....	Fifty-fourth.....	279 00
15853	13	Morgan.....	Sixty-third.....	Sixty-fifth.....	403 00
15863	32	Leavitt.....	Eighteenth.....	Coulter.....	960 00
15870	8	Upton.....	Western avenue.....	Milwaukee avenue.....	248 00
15871	4	Page.....	Austin avenue.....	Kinzie.....	126 00
15880	6	Reta.....	Cornelia.....	Addison.....	240 00
15987	33	Sacramento avenue.....	West Van Buren.....	West Twelfth.....	531 63
15999	7	Drake avenue.....	West Ohio.....	Central Park avenue.....	198 91
16007	14	Wood.....	Asylum place.....	Armitage avenue.....	413 50
16008	21	Sawyer avenue.....	Douglas park avenue.....	Ogden avenue.....	630 25
16009	25	Hamlin avenue.....	Ogden avenue.....	Twenty-sixth.....	425 00
16010	28	Asylum place.....	Leavitt.....	Elston avenue.....	819 00
16011	15	Dania avenue.....	North avenue.....	Bloomingtondale road.....	453 75
16012	25	Johnston avenue.....	California avenue.....	Humboldt boulevard.....	731 25
16013	4	Fulton.....	Columbia place.....	Hamlin avenue.....	123 00
16014	29	Armitage avenue.....	California avenue.....	Kedzie avenue.....	848 25
16015	19	Thirty-ninth.....	Westworth avenue.....	Halsted.....	574 75
16018	9	Cornelia.....	Wood.....	Ashland avenue.....	272 25
16019	19	Butler.....	Twenty-sixth.....	Thirty-first.....	574 75
16020	7	Haynes court.....	Archer avenue.....	Lyman.....	211 75
16021	13	Englewood avenue.....	Wallace.....	Halsted.....	393 25
16022	13	Butler.....	Thirty-first.....	Thirty-third.....	393 25
16023	3	Belknap.....	Morgan.....	West terminus.....	95 75
16024	10	Kenmore avenue.....	Ainsley avenue.....	Lawrence avenue.....	302 50
16025	2	Francisco.....	Congress.....	Van Buren.....	65 50
16026	18	Clarkson avenue.....	Palmer place.....	Courtland.....	544 50
16087	4	Stevens.....	Jackson.....	Van Buren.....	126 00

16038	32	Fairfield avenue.	North avenue.	Courtland	672 00
16045	14	Hoyle avenue.	Chicago avenue.	Augusta.	484 00
16046	7	Leavitt.	West Thirteenth.	West Fourteenth.	217 00
16049	6	Hamlin avenue.	Lake.	Fulton	186 00
16050	12	Rhine.	Leavitt.	Western avenue.	372 00
16051	14	Lester avenue.	Robey.	Asylum place.	484 00
16135	13	Peoria	Garfield boulevard	Fifty-seventh	893 25
16151	28	Humboldt.	North avenue.	Armitage avenue.	819 00
16152	20	Commercial	North avenue.	Clybourn place.	605 00
16153	10	Huron.	St. Clair.	600 ft. east.	302 50
16154	2	Sixty-fifth court.	Wright.	Stewart avenue.	65 50
16155	2	Twenty-seventh.	Stewart avenue.	Portland avenue.	65 50
16156	49	Belmont avenue.	Kedzie avenue.	Chicago river.	1,438 25
16157	75	Elston avenue.	Snow.	Belmont avenue.	2,193 75
16158	27	Mozart.	North avenue.	Armitage avenue.	789 75
16159	21	Gross avenue.	North avenue.	Courtland.	630 25
16160	7	Rebecca.	Washtenaw avenue.	Courtland.	211 75
16161	7	West Polk.	Washtenaw avenue.	California avenue.	211 75
16162	7	Washtenaw avenue	Francisco.	California avenue.	211 75
16163	7	Flournoy.	Taylor.	Greshaw	211 75
16164	7	Lexington avenue.	Albany avenue.	Sacramento avenue.	211 75
16165	13	Washtenaw avenue.	California avenue.	Francisco.	398 25
16166	8	Troy.	Lake	R. R. Grounds	242 00
16167	4	Humboldt.	West Thirteenth	Douglas Park boulevard	123 00
16168	3	Alice place.	Byron avenue.	Armitage avenue.	95 75
16169	5	Owasco.	Western avenue.	Powell avenue.	85 00
16170	6	Nebraska.	California avenue.	Washtenaw avenue.	102 00
16171	6	Bradley place.	Courtland.	Bloomingtondale road.	186 00
16175	7	Sixty-fifth.	Rokeby.	Halsted	317 00
16177	3	Forty-fifth.	Halsted.	Union.	98 00
16179	10	Morgan.	Greenwood avenue	Berkeley avenue	310 00
16180	9	Green.	Fifty fifth	Fifty-seventh	279 00
16181	11	Fifty-sixth.	Halsted	Fifty-seventh	341 00
16182	29	Dearborn.	Forty-third.	Morgan	870 00
16183	9	Gehrke avenue.	Clark.	Forty-seventh.	279 00
16184	7	Sixty-sixth court.	Honore.	Sheffield avenue.	217 00
16185	18	Sixty-sixth.	Sherman.	Stewart avenue.	408 00
16186	11	Newport avenue	Clark.	C. & E. R. R.	841 00
16187	4	Linden place.	Diversey	Surf.	126 00
16188	30	Indiana avenue.	Forty-seventh.	Fifty-first.	900 00
16189	13	Cottage Grove avenue.	Sixty-fifth.	Sixty-seventh.	403 00
16194	12	Newport avenue.	Halsted.	Sheffield avenue.	873 00

## STATEMENT OF ASSESSMENTS FOR ERECTING GAS LAMP POSTS—CONTINUED.

No. of Warrant	No. of Posts.	NAME OF STREET.	FROM	TO	AMOUNT.
16195	16	Fulton.....	Homan.....	Central Park avenue.....	\$ 496 00
16196	19	Maud avenue.....	Sheffield avenue.....	Racine avenue.....	599 00
16197	3	Fifty-seventh.....	Stony Island avenue.....	I. C. R. R.....	98 00
16200	6	Morgan.....	West Sixteenth.....	West Eighteenth.....	186 00
16202	25	Hastings.....	Wood.....	Leavitt.....	750 00
16203	12	Baxter.....	Wellington.....	Belmont avenue.....	373 00
16204	7	West Polk.....	Francisco.....	Sacramento avenue.....	217 00
16205	24	Bonney avenue.....	West Twenty-sixth.....	Whitehouse.....	734 00
16206	15	Kedzie avenue.....	North avenue.....	Armitage avenue.....	703 00
16207	32	Armitage avenue.....	Crawford avenue.....	Columbia avenue.....	544 00
16208	23	Homan avenue.....	Madison.....	Harrison.....	698 00
16209	7	Oakley avenue.....	Fullerton avenue.....	Station.....	217 00
16210	11	Lill avenue.....	Western avenue.....	Station.....	341 00
16211	3	Weed.....	Clybourn avenue.....	North terminus.....	98 00
16212	14	West Polk.....	Sacramento avenue.....	Kedzie avenue.....	434 00
16213	3	Pleasant avenue.....	Vedder.....	Division.....	98 00
16214	3	Penn.....	Division.....	Vedder.....	98 00
16215	3	Larrabee.....	Fullerton avenue.....	Frederick.....	98 00
16216	14	North Fifty-ninth.....	Ashland avenue.....	East Ravenswood park.....	434 00
16219	2	Bremen.....	Robey.....	Western avenue.....	407 00
16221	27	Lowe avenue.....	Twenty-sixth.....	Thirty-first.....	810 00
16579	9	Campbell avenue.....	Twelfth.....	Ogden avenue.....	272 25
16587	7	Forrestville avenue.....	Forty-third.....	Forty-fourth.....	217 00
16742	58	Union avenue.....	Forty-seventh.....	Fifty-fifth.....	1,612 00
16745	11	California avenue.....	Fullerton avenue.....	Humboldt boulevard.....	341 00
16757	7	Lunn court.....	Webster avenue.....	West terminus.....	217 00
16758	8	Washtenaw avenue.....	Ogden avenue.....	West Sixteenth.....	248 00
16759	25	Turner avenue.....	Ogden avenue.....	Douglas Park boulevard.....	760 00
16760	7	Greenwood avenue.....	Oakley avenue.....	Western avenue.....	217 00
16761	17	Washington.....	Hamlin avenue.....	Crawford avenue.....	527 00
16762	17	Park avenue.....	Hamlin avenue.....	Crawford avenue.....	527 00
16763	3	Seminary avenue.....	Cornelia.....	Eddy.....	986 00
16764	9	Roscoe.....	Halsted.....	Clark.....	279 00
16765	8	Pratt.....	Green.....	Fay.....	98 00
16766	2	Ellen.....	Lincoln.....	West terminus.....	67 00
16767	7	Holt.....	North avenue.....	Wabansia avenue.....	217 00

16769	7	Dickson .....	Wabansia avenue.....	Bloomingdale road.....	217 00
16769	4	Phinney avenue.....	Scott .....	Jackson.....	136 00
16770	15	Sawyer avenue.....	West Twelfth.....	Douglas Park boulevard .....	465 00
16771	6	St. Louis avenue.....	West Eighteenth.....	Ogden avenue.....	186 00
16773	33	Clifton Park avenue.....	Douglas Park boulevard .....	Ogden avenue.....	980 00
16773	39	Oakley avenue.....	West Eighteenth.....	Blue Island avenue.....	1,170 00
16774	13	Wilson avenue.....	Robey.....	Leavitt.....	373 00
16775	23	Harvard .....	California avenue .....	Campbell avenue.....	673 00
16776	7	West Twenty third .....	Clifton Park avenue.....	Trumbull avenue.....	217 00
16777	6	Clarence avenue.....	Waveland avenue.....	Grace avenue.....	186 00
16778	7	West Seventeenth.....	Western avenue.....	C. C. & I. C. R. R .....	217 00
16781	6	Francis place.....	California avenue .....	Point.....	186 00
16782	23	Winona.....	Evanston avenue.....	Clark.....	693 00
16783	6	Blair.....	Canalport avenue.....	West Twentieth.....	186 00
16784	8	Diller .....	Fulton.....	Kinzie.....	248 00
16785	7	Coulter.....	Campbell avenue.....	Rockwell.....	217 00
16786	7	Rockwell.....	Coulter.....	Twenty-sixth.....	217 00
16787	14	Talman avenue.....	Hirsch.....	North avenue.....	451 00
16789	11	Cornelia.....	Ashland avenue.....	Wood.....	341 00
16790	6	Buckingham place.....	Evanston avenue.....	Halsted.....	186 00
17318	18	Forty-third.....	State.....	Westworth avenue.....	320 00
17371	13	Stony Island avenue.....	Sixty-seventh.....	Jackson Park terrace.....	214 50
17377	7	West Huron.....	Albany avenue.....	Kedzie avenue.....	190 92
		Total.....			\$84,570 92

## STATEMENT OF ASSESSMENTS FOR STREET SPRINKLING.

No. of Warrant	NAME OF STREET.	FROM	TO	AMOUNT.
14817	Sundry streets in Thirty-first ward.....			\$14,816 58
17010	Cornell avenue, etc., etc.....	East End avenue, etc., etc.....	Everett avenue, etc., etc.....	2,227 89
17463	Sprinkling sundry streets in Twenty-sixth ward.....			4,246 48
	Total.....			\$21,290 95

## STATEMENT OF ASSESSMENTS FOR DREDGING AND DOCKING.

Warrant No. 15824. South branch Chicago river, from Egan avenue to point Northwest  $\frac{1}{4}$ , 6, 38, 14..... \$98,063 88

## RECAPITULATION, 1892.

Wooden Block Pavement.....	\$6,056,442 19
Sewers.....	3,864,714 23
Miscellaneous Street and Alley Improvements.....	1,301,491 99
Water Service Pipes.....	812,128 00
Plank Sidewalks.....	373,162 87
Drains.....	610,961 01
Opening and Widening.....	672,430 72
Stone Sidewalks.....	559,068 54
Gas Lamp Posts.....	64,570 52
Boulevard Lamp Posts.....	14,461 00
Gasoline Lamp Posts.....	7,994 23
Dyott Lamps.....	1,933 75
Lamp Post Connections.....	2,814 00
Street Sprinkling.....	21,290 95
Water Mains.....	73,175 41
Dredging and Docking.....	69,062 38
<b>TOTAL.....</b>	<b>\$14,505,701 79</b>

## SUMMARY.

### Total Assessments for Wooden Block Pavement :

North Division.....	\$ 902,857 45	
South Division.....	2,847,918 01	
West Division.....	2,805,666 73	
	<u>                    </u>	\$6,056,442 19

### Total Assessments for Constructing Sewers :

North Division.....	\$ 233,350 73	
South Division.....	2,392,911 22	
West Division.....	1,238,452 28	
	<u>                    </u>	3,864,714 23

### Total Assessments for Laying Water Service Pipes :

North Division.....	\$ 81,047 50	
South Division.....	433,276 95	
West Division.....	297,803 55	
	<u>                    </u>	812,128 00

### Total Assessments for Laying Plank Sidewalks :

North Division.....	\$ 25,359 28	
South Division.....	216,297 13	
West Division.....	131,506 46	
	<u>                    </u>	373,162 87

### Total Assessments for Street and Alley Opening and Widening :

North Division.....	\$ 57,434 73	
South Division.....	453,782 91	
West Division.....	161,213 08	
	<u>                    </u>	672,432 07

## SPECIAL ASSESSMENT DEPARTMENT.

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## Total Assessments for Laying Stone and Cement Sidewalks :

North Division.....	\$ 43,814 21	
South Division.....	806,780 00	
West Division .....	208,474 33	
		<u>\$559,068 54</u>

## Total Assessments for Erecting Gas Lamp Posts :

North Division.....	\$ 6,929 00	
South Division.....	14,971 75	
West Division .....	42,669 77	
		<u>64,570 52</u>

## Total Assessments for Erecting Boulevard Lamp Posts :

North Division. ....	\$ 520 00	
South Division....	13,606 00	
West Division.....	335 00	
		<u>14,461 00</u>

## Total Assessments for erecting Dyott Champion Lamps :

North Division .....		
South Division .....		
West Division.....	\$ 1,933 75	
		<u>1,933 75</u>

## Total Assessments for Laying Private Drains :

North Division.....	\$ 66,768 75	
South Division....	242,309 75	
West Division .....	301,882 51	
		<u>610,961 01</u>

## Total Assessments for Lamp Post Connections :

North Division.....		
South Division.....	\$ 119 00	
West Division.....	2,695 00	
		<u>2,814</u>

## Total Assessments for Street Sprinkling :

North Division.....	\$ 4,246 48	
South Division.....	17,044 47	
West Division.....		
		<u>21,290 95</u>

## Total Assessments for Dredging and Docking :

North Division .....		
South Division.....	\$ 69,062 33	
West Division .....		
		<u>69,062 33</u>

## Total Assessments for Laying Water Mains :

North Division.....	\$ 1,896 08	
South Division.....	13,376 84	
West Division.....	57,902 49	
		<u>73,175 41</u>

## Total Assessments for Gasoline Lamp Posts :

North Division.....	\$ 2,695 48	
South Division.....	108 00	
West Division.....	5,190 75	
		<u>7,994 23</u>



## Total Assessments for Miscellaneous Street and Alley Improvements :

North Division .....	\$ 147,515 24	
South Division.....	956,298 15	
West Division .....	197,678 60	
		<hr/>
		\$1,801,491 69
TOTAL.....		<hr/>
		\$14,505,701 79

The following list shows the total of assessments made in each year since 1861 :

For the year ending April 1, 1862.....	\$ 42,635 49
For the year ending April 1, 1863.....	46,493 67
For the year ending April 1, 1864.....	889,169 31
For the year ending April 1, 1865.....	103,576 35
For the year ending April 1, 1866.....	802,574 56
For the year ending April 1, 1867.....	817,206 18
For the year ending April 1, 1868.....	1,854,436 48
For the year ending April 1, 1869.....	2,895,638 03
For the year ending April 1, 1870.....	2,836,852 48
For the year ending April 1, 1871.....	2,359,835 89
For the year ending April 1, 1872.....	62,232 25
For the year ending April 1, 1873.....	.....
For the year ending April 1, 1874.....	749,460 37
For the year ending April 1, 1875.....	723,254 42
For the nine months ending January 1, 1876.....	60,535 72
For the year ending January 1, 1877.....	1,516,081 07
For the year ending January 1, 1878.....	124,498 48
For the year ending January 1, 1879.....	284,900 45
For the year ending January 1, 1880.....	588,963 44
For the year ending January 1, 1881.....	980,895 50
For the year ending January 1, 1882.....	1,227,169 71
For the year ending January 1, 1883.....	1,895,872 98
For the year ending January 1, 1884.....	2,232,757 04
For the year ending January 1, 1885.....	2,857,905 28
For the year ending January 1, 1886.....	2,889,544 80
For the year ending January 1, 1887.....	3,307,587 99
For the year ending January 1, 1888.....	3,160,474 67
For the year ending January 1, 1889.....	3,655,956 78
For the year ending January 1, 1890.....	4,220,869 93
For the year ending January 1, 1891.....	6,987,155 48
For the year ending January 1, 1892.....	8,790,443 29
For the year ending January 1, 1893.....	14,505,701 79
Total for thirty-two years .....	<hr/>
	\$70,970,244 78

Respectfully submitted,

J. S. SHEAHAN,

*Superintendent of Special Assessments.*



REPORT  
of the

**BOOKKEEPER**

*City of Chicago.*



# BOOK-KEEPER'S STATEMENT.

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HON. J. FRANK ALDRICH,

*Commissioner of Public Works.*

DEAR SIR:—I herewith respectfully submit statement in detail of the Receipts and Expenditures of your Department for the year 1892.

## WATER FUND.

### RECEIPTS.

Amount collected during the year for current water rents assessed.....	\$1,760,694 50
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Amount collected during the year for current water rents, meter measurements.....	809,257 78
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#### *Acc't Water Service Cocks.*

Amount received for taps and permits, also plumbers' licenses (\$11,300.00).....	88,458 45
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#### *Acc't Meters and Private Work.*

Amount received for labor and material used in laying and repairing water supply pipes for elevators and general supply of water, also for changing location of hydrants and stop cocks and repairing meters.....	71,308 30
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Carried forward.....	<u>\$2,729,719 03</u>
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Brought forward.....	\$2,720,719 03
<i>Acc't West Pump. Works.</i>	
Amount received for scrap iron, empty barrels, etc...	42 78
<i>Acc't Central Pump. Works.</i>	
Amount received for scrap iron, refund on pay roll, etc.....	67 19
<i>Acc't South Side Pump. (Four- teenth Street) Works.</i>	
Amount received for refund on pay roll.....	56 20
<i>Acc't Sixty-eighth Street Tun- nel Extension.</i>	
Amount received for refund on pay roll.....	18 00
<i>Acc't New Lake Tunnel.</i>	
Amount received for refund on railroad tickets.....	5 00
<i>Acc't Water Pipe and Special Castings.</i>	
Amount received for scrap iron, pipe and castings...	4,373 35
<i>Acc't Hydrant Wrenches.</i>	
Amount received as de- posit for loan of hydrant wrenches.....	685 00
<i>Acc't Water Pipe Extension.</i>	
Amount received for teaming and refund on pay rolls..	109 25
<i>Acc't Water Works Repairs.</i>	
Amount received for work done for Sewer Depart- ment.....	\$ 561 56
Amount received for sundries	368 57
	<hr/>
	930 13
Carried forward.....	<hr/>
	\$2,736,005 93

Brought forward....		\$2,736,005 93
<i>Acc't Water Works Shop.</i>		
Amount received for brass borings, lead dross and scrap iron.....		1,503 68
<i>Acc't Water Works Stable.</i>		
Amount received from sale of horses, wagons, etc...	\$ 1,221 32	
Amount received for rent...	50 00	
	<hr/>	1,271 32
<i>Acc't Water Office Salary.</i>		
Amount received for refunds on pay roll.....		234 27
<i>Acc't Water Office Expense.</i>		
Amount received from sale of carpet.....		103 90
<i>Miscellaneous Receipts.</i>		
Rent of Rookery lot.....		35,000 04
From private parties to lay water mains.....		132,540 82
	<hr/>	
Total receipts.....		\$2,906,659 96

## EXPENDITURES.

<i>Acc't Water Pipe Extension.</i>		
Paid for—		
Labor.....	\$ 171,131 99	
Castings and Pipe.....	227,579 78	
Hydrants and stop-cock chambers.....	38,763 33	
Teaming.....	15,302 12	
Lead.....	15,583 34	
Repaving.....	10,257 29	
Thirty-fifth street tunnel....	8,228 39	
Lumber.....	3,302 61	
	<hr/>	
Carried forward.....	\$ 490,148 85	

Brought forward.....	\$ 490,148 85	
Cement.....	1,854 65	
Land.....	4,500 00	
Tapping machines.....	3,333 33	
Hydrant rings and covers...	2,345 80	
Excavating and blasting...	2,452 05	
Plumbing.....	1,986 35	
Car fare.....	286 77	
Stationery.....	163 26	
Coal.....	117 54	
Inspection.....	873 14	
Refund.....	410 00	
Fire department (pumping).	597 45	
Hydrants.....	1,010 10	
Brick.....	2,135 50	
Horse shoeing.....	9 85	
Oil.....	58 38	
Horse feed.....	282 00	
Iron Work.....	40 90	
Map.....	25 00	
Hardware .....	84 59	
Rope .....	36 09	
Advertising.....	10 20	
Valves .....	459 45	
Ice.....	13 12	
Stone jack.....	63 75	
Sundries.....	91 72	
Charged water fund.....		\$ 513,389 84

*Acc't Water Works Repairs.*

Paid for—

Labor.....	\$ 299,992 49	
Teaming .....	17,818 99	
Pipe and castings.....	7,832 77	
Tapping machines.....	3,333 33	
Lumber.....	4,768 20	
Lead.....	1,979 60	
Brick.....	6,116 00	
Cement .....	1,821 75	
Sand.. .....	490 86	
Carried forward.....	\$ 344,153 99	\$ 513,389 84

Brought forward.....	\$ 344,153 99	\$ 513,389 84
Car fare.....	1,197 95	
Hardware.....	1,730 79	
Valves and fittings.....	439 04	
Repaving.....	710 18	
Hydrant and stop cock basins.....	2,778 78	
Repairs valve and hydrant chambers.....	578 97	
Hydrant rings and covers...	1,722 35	
Horse keep.....	516 31	
Harness and repairs.....	54 75	
Gaskets.....	19 09	
Coal.....	176 65	
Stationery.....	253 29	
Mason work.....	346 45	
Rent of yard.....	33 33	
Sewer pipe.....	374 25	
Inspection.....	98 50	
Damages.....	340 64	
Plumbing.....	510 48	
Paint and oil.....	115 84	
Pump.....	38 50	
Horse shoeing.....	71 55	
Repairing tools.....	285 25	
Wagons.....	197 15	
Packing.....	87 06	
Use of telephone.....	83 33	
Drinking hydrants.....	582 00	
Sundries.....	548 85	
Charged water fund .....		358,045 32

*Acc't North Pump Works.*

Paid for—

Salaries of engineers, firemen and for labor.....	\$ 51,473 84	
Coal.....	87,814 65	
Painting and cleaning.....	2,927 28	
Electric dynamo and wiring building.....	2,280 09	
Carried forward.....	\$ 144,495 86	\$ 871,435 16



Brought forward..... \$ 144,495 86 \$ 971,435 16

Iron work.....	1,330 67	
Gas.....	761 20	
Oil.....	775 34	
Boiler repairs.....	515 61	
Sprinkling.....	424 28	
Packing.....	384 29	
Tug service.....	201 00	
Lumber.....	219 59	
Boiler compound.....	225 38	
Valves and fittings.....	460 63	
Plumbing.....	109 20	
Grease.....	187 11	
Waste.....	85 71	
Rubber boots.....	46 99	
Brooms and brushes.....	44 38	
Material and labor (shop) ..	747 83	
Car fare.....	26 42	
Gaskets.....	22 70	
Repairing pavement.....	75 00	
Castings and brass fittings..	127 39	
Stationery.....	57 30	
Janitor's supplies.....	97 49	
Steam register.....	57 00	
Rope.....	37 11	
Glass.....	64 55	
Cement.....	30 20	
Ice.....	55 80	
Polish.....	82 50	
Hose.....	97 68	
Brick.....	56 50	
Diving.....	87 50	
Horse keep.....	72 27	
Sand.....	22 00	
Inspection scales.....	6 00	
Charged water fund.....		152,096 48
Carried forward.....		\$1,023,531 64

Brought forward.....

\$1,023,531 64

*Acc't West Pump. Works.*

Paid for—

Salaries of engineers, firemen and for labor.....	\$ 44,435 98
Coal.....	47,915 46
Gas (from September, 1884)	13,503 55
Valves and fittings.....	1,584 27
Oil.....	1,484 84
Iron work.....	305 79
Packing.....	277 51
Terra cotta.....	436 08
Machine work.....	148 80
Waste.....	298 65
Gaskets.....	130 58
Grate-bars.....	108 70
Castings.....	157 55
Hardware.....	194 64
Coke.....	32 50
Polish.....	60 00
Cement work.....	28 00
Mats.....	11 00
Brooms and brushes.....	33 18
Grease and Tallow.....	109 33
Blacksmithing.....	74 52
Janitor's supplies.....	35 50
Brick.....	254 50
Repairs.....	89 64
Brass work.....	85 09
Oatmeal.....	14 40
Lumber.....	75 87
Car fare.....	37 50
Ice.....	36 30
Sand.....	30 40
Hose.....	62 91
Paint.....	13 30
Tiles.....	35 00
Rubber boots.....	17 49
Lime.....	6 47
Ladder.....	3 50

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Carried forward..... \$ 112,131 80    \$1,023,531 64

Brought forward.....	\$ 112,131 80	\$1,023,531 64
Chart .....	5 00	
Hand rail.....	25 00	
Belting.....	6 13	
Inspecting scales .....	5 00	
Thermometer .....	6 50	
Charged water fund .....		112,179 43

*Acc't Central Pump. Works.*

Paid for—

Salaries of engineers, fire-		
men and for labor.....	\$ 33,863 34	
Coal .....	12,139 00	
Contractor (on building)...	3,251 75	
Valves and fittings.....	231 10	
Oil.....	783 22	
Boiler cleaners.....	600 00	
Grates and bars.....	679 36	
Gas.....	595 00	
Iron work.....	309 43	
Waste.....	306 47	
Engine and boiler repairs...	154 40	
Lumber .....	103 21	
Packing .....	161 94	
Janitor's supplies.....	134 03	
Sand.....	180 20	
Castings.....	307 16	
Horse keep.....	16 90	
Cement.....	150 00	
Hose.....	56 48	
Indicator.....	39 00	
Hardware.....	44 30	
Sawdust.....	10 00	
Lime.....	3 30	
Oil cans.....	22 56	
Testing tanks .....	66 42	
Scale.....	78 00	
Polish .....	62 00	
Drippers .....	42 84	
Paint.....	41 15	
Carried forward.....	\$ 54,432 56	\$1,135,711 07

Brought forward ...	\$ 54,432 56	\$1,135,711 07
Stone .....	24 75	
Brooms and brushes .....	34 80	
Brick.....	86 55	
Desk.....	37 50	
Boiler compound.....	7 00	
Testing scale.....	2 50	
Rope.....	22 08	
Matting .....	10 00	
Stationery .....	22 72	
Gauge cocks.....	5 40	
Tools .....	7 65	
Chairs.....	4 00	

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Charged water fund..... 54,697 51

*Acc't South Side Pump.  
Works.*

Paid for—

Salaries of engineers, firemen and for labor.....	\$ 33,123 00	
Engines and boilers.....	28,808 70	
Coal .....	0,972 54	
Cement floor.....	2,643 89	
Cement walk.....	278 05	
Plumbing and gas-fitting...	1,415 25	
Lumber .....	1,358 65	
Oil .....	1,104 92	
Brick .....	395 25	
Lime.....	34 30	
Cement .....	210 00	
Glass .....	119 33	
Sand .....	66 85	
Iron floor.....	466 00	
Wire railing.....	30 00	
Boiler cleaners.....	400 00	
Scale .....	276 00	
Iron doors.....	250 00	
Paving street.....	525 10	
Iron stairs .....	564 00	
Oak partitions.....	950 00	

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Carried forward..... \$ 82,991 83 \$1,190,408 58

Brought forward....	\$ 82,991 83	\$1,190,408 58
Steam heating.....	411 00	
Covering platform.....	267 39	
Oil tanks.....	109 18	
Office ceiling.....	215 00	
Cleaning walls.....	250 00	
Fittings.....	2,277 28	
Repairs engines and boilers.	494 03	
Waste.....	195 52	
Packing.....	132 04	
Iron work.....	429 91	
Janitor's supplies.....	112 82	
Car fare.....	23 00	
Grease.....	20 50	
Stationery.....	105 09	
Boiler compound.....	39 20	
Horse hire.....	40 25	
Furniture.....	151 37	
Tools.....	102 37	
Hardware.....	334 97	
Ice.....	49 36	
Brooms and brushes.....	114 06	
Testing machinery.....	172 85	
Stone work.....	254 53	
Valves and fittings.....	443 77	
Paint.....	128 19	
Machine work.....	97 09	
Rubber boots.....	22 17	
Gas.....	271 80	
Covering pipes.....	196 27	
Polish.....	50 50	
Repairing roof.....	59 34	
Sundries.....	242 15	
Charged water fund.....		90,805 33
<i>Acc't Washington Heights Pump.</i>		
Paid for—		
Salaries of engineer and fire- men and for labor.....	\$ 5,695 92	
Brick.....	1,220 50	
Carried forward.....	\$ 6,916 42	\$1,281,213 91

Brought forward....	\$	6,916 42	\$1,281,213 91
Coal .....		871 28	
Artesian Well cylinder and fittings.....		535 91	
Lumber .....		491 98	
Stone work.....		449 94	
Duplex pump.....		480 00	
Scale .....		400 00	
Boiler compound.....		240 00	
Valves and fittings.....		256 00	
Smoke stack.....		195 00	
Cement .....		108 75	
Hardware .....		130 73	
Doors, windows and frames.		152 87	
Oil .....		28 22	
Castings.....		95 50	
Car fare.....		72 61	
Mouldings.....		24 90	
Repairing tools.....		14 00	
Roofing .....		66 00	
Packing .....		7 43	
Terra cotta.....		66 64	
Hose .....		6 75	
Waste.....		3 37	
Iron work.....		7 25	
Repairs to scale.....		4 00	
Charged water fund.....			11,625 55

*Acc't Sixty-eighth Street  
Pump. Works.*

Paid for—

Salaries of engineers, firemen and for labor.....	\$	52,717 73	
Coal.....		15,386 46	
Fuel oil.....		15,015 57	
Engines and boilers.....		16,375 00	
Oil tank.....		3,796 00	
Floor.....		2,316 84	
Valves and fittings.....		7,428 59	
Brick .....		1,249 30	
Carried forward.....	\$	114,285 49	\$1,292,839 46

Brought forward.....	\$ 114,285 49	\$1,292,839 46
Lumber .....	1,213 71	
Railings and posts. ....	178 00	
Cement .....	660 28	
Roofing .....	554 75	
Painting.....	439 49	
Building partition.....	785 00	
Electric light plant.....	946 99	
Gravel .....	175 95	
Moving machinery .....	425 00	
Oil .....	1,153 04	
Boiler repairs.....	880 40	
Repairs to engines .....	2,377 83	
Radiation.....	972 40	
Lead .....	460 11	
Machine work.....	538 77	
Oil pump and fittings.....	576 95	
Tug service. ....	870 00	
Stationery.....	135 87	
Oiling brick fronts.....	250 00	
Car fare.....	67 39	
Diving.....	97 50	
Boiler compound.....	463 70	
Packing .....	631 43	
Castings .....	879 90	
Boiler cleaners.....	600 00	
Stone .....	125 83	
Sand .....	165 68	
Teaming .....	277 48	
Waste .....	420 31	
Testing gauge.....	15 00	
Tools .....	19 91	
Surveying .....	21 70	
Iron work.....	477 07	
Hose.....	46 16	
Electric supplies.....	67 47	
Janitor's supplies.....	184 69	
Rope.....	36 06	
Polish.....	82 50	
Belting.....	13 04	
Inspecting scales.....	30 00	
Carried forward.....	\$ 132,002 78	\$1,292,839 46

Brought forward..... \$ 132,602 78 \$1,292,839 46

Grease.....	134 35
Rent right of way.....	135 00
Building sewer.....	959 61
Chimney cap.....	135 00
Water alarms.....	80 00
Ice.....	85 90
Sundries.....	96 78

Charged water fund.. 134,229 42

*Acc't Lake View Pump Works.*

Paid for--

Salaries of engineers, firemen and for labor.....	\$ 29,922 85
Coal.....	11,103 85
Building.....	20,040 00
Engines and boilers.....	50,076 26
Chimney.....	5,108 85
Cut stone.....	5,791 01
Lumber.....	1,511 32
Engine foundations.....	2,275 80
Brick.....	1,420 99
Roofing.....	347 98
Oil.....	701 46
Packing.....	262 20
Iron doors.....	797 00
Boiler cleaners.....	300 00
Setting boilers.....	485 00
Tug service.....	957 90
Engine and boiler repairs...	735 70
Pile driver.....	300 00
Iron work.....	541 59
Janitor's supplies.....	143 02
Wagon scale.....	168 00
Castings.....	119 25
Machine work.....	174 95
Valves and fittings.....	380 13
Use of scow.....	310 00
Hardware.....	283 24
Repairs to buggy.....	73 00

Carried forward..... \$ 134,331 35 \$1,427,068 88



Brought forward....	\$ 184,331 35	\$1,427,068 88
Hose.....	118 77	
Stationery.....	210 56	
Teaming.....	178 24	
Covering pipes.....	86 00	
Electric supplies.....	26 92	
Polish.....	21 25	
Cement.....	107 75	
Gaskets .....	34 89	
Advertising.....	49 15	
Strainer .....	142 00	
Waste.....	77 89	
Lime.....	35 75	
Car fare.....	59 87	
Sundries.....	153 59	
Charged water fund.....		135,633 98

*Acc't New Lake Tunnel.*

Paid for—

Contractor.....	\$ 194,104 16	
Labor, engineers, draughts-		
men, inspectors and rod-		
men.....	21,824 11	
Iron work.....	974 58	
Tug service .....	577 50	
Rubber boots.....	201 77	
Stenography.....	328 13	
Car fare.....	183 76	
Meals and board .....	147 52	
Stationery .....	133 46	
Hardware .....	66 95	
Screens.....	75 00	
Coal.....	69 00	
Diving .....	70 00	
Repairs to instruments.....	43 50	
Sundries.....	46 51	
Machine work.....	60 17	
Charged water fund.....		218,906 12
Carried forward.....		\$1,781,608 98

Brought forward..... \$1,781,608 98

*Acc't Lake View Tunnel.*

Paid for—

Contractor.....	\$ 108,008 59
Labor, engineers, draughts-	
men, inspectors and rod-	
men.....	15,272 28
Transit.....	255 25
Meals and board.....	238 55
Moving tower house.....	120 00
Pumping out well.....	112 30
Car fare.....	56 93
Diving.....	96 00
Lumber.....	67 86
Teaming.....	67 00
Tools.....	15 65
Anchor light.....	21 78
Castings.....	30 17
Stationery.....	50 24
Packing.....	17 40
Hardware.....	40 18
Coal.....	16 00
Iron-work.....	23 75
Soap.....	4 20

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Charged water fund..... 124,514 13

*Acc't Sixty-eighth Street  
Tunnel Extension.*

Paid for—

Contractors.....	\$ 87,983 31
Labor, engineers, draughts-	
men, inspectors and rod-	
men.....	9,358 27
Lumber.....	255 03
Brick.....	85 00
Hardware.....	63 61
Stationery and advertising..	72 96
Tug service.....	42 00
Car fare.....	116 44

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Carried forward..... \$ 97,976 52 \$1,906,123 11

Brought forward.....	\$	97,976 52	\$1,906,123 11
Diving.....		220 00	
Packing.....		102 63	
Fittings.....		116 80	
Derrick.....		88 00	
Plumbing.....		43 49	
Tools.....		20 13	
Coal.....		7 50	
Oil.....		3 50	
Machine-work.....		01 24	
		<hr/>	
Charged water fund.....			98,639 81
<i>Acc't Ashland Avenue Tunnel.</i>			
Paid for—			
Labor.....	\$	1,716 26	
Hardware.....		3 40	
		<hr/>	
Charged water fund.....			1,719 66
<i>Acc't Lake Crib, "Old."</i>			
Paid for—			
Cribkeeper's salary and labor	\$	17,493 62	
Tug service.....		16,172 50	
Coal.....		1,177 50	
Iron-work.....		1,022 56	
Hose.....		046 28	
Lumber.....		722 00	
Boilers.....		705 00	
Pump.....		345 00	
Covering boilers.....		164 33	
Repairs boilers.....		272 93	
Glass.....		210 78	
Moving light house .....		460 00	
Cupola.....		200 00	
Cement.....		157 50	
Paint.....		181 68	
Use of derrick.....		125 00	
Copper-work.....		202 00	
Hardware.....		271 17	
Brick.....		100 50	
Rope and blocks.....		146 80	
Use of scow.....		150 00	
		<hr/>	
Carried forward.....	\$	40,927 15	\$2,006,482 58

Brought forward.....	\$	40,927 15	\$2,006,482 58
Teaming.....		29 50	
Tools.....		86 10	
Sand.....		84 40	
Bedding.....		100 54	
Oil.....		55 24	
Stone.....		56 50	
Iron-gutter.....		31 73	
Doors and frames.....		65 90	
Stationery and blue prints..		25 07	
Meals and board.....		23 30	
Machine work (shop).....		456 07	
Car fare.....		12 70	
Waste.....		18 37	
Diving.....		49 40	
Fittings.....		41 39	
Sundries.....		141 49	

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Charged water fund..... 42,204 85

*Acc't New Lake Tunnel Crib.*

Paid for —

Iron floor.....	\$	3,740 00	
Iron roof.....		2,567 00	
Tug service.....		1,280 50	
Building platform.....		934 91	
Labor.....		819 94	
Brick.....		500 00	
Dredging.....		351 92	
Coal.....		150 00	
Lumber.....		103 03	
Meals and board.....		120 76	
Bedding.....		132 58	
Hardware.....		88 11	
Stationery and blue prints..		45 57	
Rope.....		52 29	
Advertising.....		10 32	
Tools.....		20 97	
Boat.....		49 75	
Iron tanks.....		23 00	
Sundries.....		15 55	

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Charged water fund..... 11,009 20

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Carried forward..... \$2,059,696 63

Brought forward..... \$2,059,696 63  
*Acc't Lake View Crib.*

## Paid for—

Contractor.....	\$ 48,000 00
Tug service.....	688 06
Labor.....	114 49
Hardware.....	148 73
Bedding.....	105 61
Coal.....	157 50
Tools.....	66 04
Boat and sails.....	57 50
Furniture.....	66 97
Paint and oil.....	16 42
Stationery.....	7 30
Rubber boots.....	41 80
Rope and blocks.....	29 83
Machine work (shop).....	74 41
Lumber.....	21 32
Sundries.....	19 35

Charged water fund..... 49,615 38

*Acc't North Breakwater Crib.*

## Paid for—

Tug service.....	\$ 5,607 35
Labor.....	4,419 43
Lumber.....	367 12
Hardware.....	164 43
Rope and blocks.....	127 09
Coal.....	87 54
Boat.....	79 13
Bolts.....	75 27
Teaming.....	33 74
Paint.....	22 25
Machine work (shop).....	328 52
Car fare.....	16 55
Wire-work.....	28 50
Oil.....	17 37
Waste.....	17 89
Blankets.....	28 50
Packing.....	29 37

Carried forward..... \$ 11,450 05 \$2,109,312 01

Brought forward.....	\$ 11,450 05	\$2,100,312 01
Meals and board.....	32 23	
Blue prints.....	9 36	
Furniture.....	16 58	
	<hr/>	
Charged water fund.....		11,508 22

*Acc't New North Shore Inlet  
Extension.*

Paid for—

Contractor....	\$ 47,282 28	
Labor.....	1,287 10	
Machine work (shop).....	153 60	
Car fare.....	12 90	
Cement.....	8 00	
Brick.....	8 00	
Advertising.....	5 04	
	<hr/>	
Charged water fund.....		48,756 92

*Acc't Water Service Cocks.*

Paid for—

Labor.....	\$ 58,742 35	
Corporation cocks.....	6,602 37	
Ferrules.....	3,395 35	
Taps, drills and sockets....	1,413 60	
Labor and material (shop)..	778 44	
Horse-keep (stable).....	216 82	
Castings.....	221 00	
Stationery..	223 55	
Tape-lines.....	134 36	
Wrenches .....	51 34	
Plumbing.....	93 94	
Advertising.....	23 00	
Hardware ....	38 50	
	<hr/>	
Charged water fund.....		71,934 62

*Acc't Meters and Private Work.*

Paid for—

Meters, counters, covers and fittings .....	\$ 28,105 34	
Labor.....	52,993 57	
	<hr/>	
Carried forward.....	\$ 81,098 91	\$2,241,511 77

Brought forward.....	\$	81,098 91	\$2,241,511 77
Rebates on deposits.....		6,307 50	
Tapping machines.....		3,333 34	
Lumber.....		1,001 50	
Castings.....		1,279 45	
Machine-work (shop).....		4,739 95	
Horse-keep.....		289 08	
Hydrant basins.....		111 07	
Hardware .....		274 86	
Valves.....		88 35	
Stationery .....		88.34	
Glass.....		20 00	
Hose .....		34 50	
Repairing harness .....		2 80	
Tools .....		107 50	
Oil.....		36 27	
Paint .....		3 50	
Pails .....		12 20	
Packing.....		61 05	
Horse-shoeing.....		29 00	
Repairing buggy.....		43 60	
Sawdust.....		8 00	
Charged water fund.....			98,970 77
<i>Acc't Water Office Expense.</i>			
Paid for—			
Car fare.....	\$	3,686 80	
Stationery.....		3,743 62	
Advertising.....		2,051 34	
Labor.....		702 22	
Rent.....		926 65	
Plumbing.....		234 78	
Postage.....		217 45	
Furniture.....		222 16	
Gas .....		152 76	
Hardware.....		128 90	
Rubber stamps.....		65 95	
Telephone.....		93 75	
Rebates .....		56 08	
Coin-holders.....		36 00	
Counterfeit detectors.....		3 00	
Carried forward. ....	\$	12,321 46	\$2,340,482 54

Brought forward.....	\$ 12,321 46	\$2,340,462 54
Tape lines .....	44 22	
Gas fixtures .....	37 14	
Painting.....	15 12	
City directory.....	7 50	
Binding .....	14 75	
Electric-light fixtures .....	72 29	
Scale.....	7 20	
Coal.....	20 75	
Moving safe.....	15 00	
Sundries.....	85 39	
	<hr/>	
Charged water fund... ..		12,640 82
<i>Acc't Water Office Salaries.</i>		
Paid for—		
Collecting water rents as- sessed, inspectors, assess- ors and draughtsmen.....	\$ 263,990 75	
	<hr/>	
Charged water fund.....		263,990 75
<i>Acc't Water Fund Proportion of Commissioner's Office Expense and Salaries.</i>		
Paid—		
Salaries of Commissioner, secretary, book-keeper and others.....	\$ 9,570 94	
Stationery .....	1,532 64	
Postage.....	892 50	
Annual report.....	702 55	
Car fare.....	633 62	
Horse feed.....	129 03	
Furniture.....	58 25	
Book-binding.. ..	51 00	
Sundries .....	132 19	
	<hr/>	
Charged water fund.....		13,702 72
		<hr/>
Carried forward.....		\$2,630,816 83



Brought forward.....		\$2,630,816 83
<i>Other Expenditures.</i>		
Paid—		
Deposit for hydrant wrenches refunded.....	\$ 440 00	
Water loan bonds.....	680,900 00	
Water loan interest.....	42,047 50	
Money advanced and re- funded.....	37,768 48	
	<hr/>	
Charged water fund.....		761,155 98
<i>Acc't Water Miscellaneous Expense.</i>		
Paid for—		
Sundry expenditures.....	\$ 11,333 12	
	<hr/>	
Charged water fund.....		11,333 12
		<hr/>
Total expenditures...		\$3,403,305 93
<i>Sewer Fund.</i>		
Receipts—		
Amount received for drain permits.....		78,174 40
Amount received for drain layers' license.....		1,585 00
Appropriated by City Council for cleaning sewers and catch-basins.....	\$ 115,000 00	
Repairing sewers and catch- basins.....	20,000 00	
Sewerage office salaries....	32,400 00	
Sewerage proportional sala- ries and office expense...	11,986 66	
Sixty-ninth street sewer pump	34,186 85	
Extending outlet Fifty-first street sewer.....	3,000 00	
Sewerage fund, general tax for new sewers constructed	60,000 00	
	<hr/>	
Carried forward.....	\$ 276,573 51	\$3,483,065 33

Brought forward.....	\$ 276,573 51	\$ 79,759 40
River improvement sinking fund .....	500 00	
Sewerage sinking fund. ...	500 00	
	<hr/>	
	\$ 277,573 51	
Received for special assessment inspection from Comptroller.....	161,634 43	
Received from sundry parties	395 17	
Amount advanced by private parties for constructing sewers .....	1,730 31	
Amount received from private parties for labor and material .....	8,531 58	
	<hr/>	449,865 00
Total receipts.....		\$ 529,624 40

## EXPENDITURES.

*Acc't Sewers North Division.*

## Paid for—

Labor.....	\$ 2,193 43	
Catch-basins.....	4,241 27	
Sewer pipe.....	657 54	
Teaming .....	308 50	
Cement.....	50 76	
Brick .....	52 15	
Iron covers.....	8 26	
	<hr/>	
Charged sewerage fund.....	\$ 7,511 91	

*Acc't Sewers South Division.*

## Paid for—

Labor.....	\$ 3,655 45	
Catch-basins.. ..	13,839 65	
Sewer pipe.....	1,515 15	
Teaming .....	495 00	
Brick .....	238 40	
Cement .....	155 52	
Car fare.....	57 33	
	<hr/>	
Carried forward.....	\$ 19,956 50	\$ 7,511 91

Brought forward.....	\$ 19,956 50	\$ 7,511 91
Horse keep.....	36 00	
Iron covers.....	22 78	
Wooden covers.....	20 16	
	<hr/>	
Charged sewerage fund.....		20,035 44
<i>Acc't Sewers West Division.</i>		
Paid for—		
Labor.....	\$ 10,681 49	
Catch-basins.....	7,589 50	
Sewer pipe.....	2,176 20	
Sewers built by private parties.....	1,192 80	
Teaming.....	911 75	
Brick.....	275 65	
Cement.....	170 10	
Car fare.....	15 00	
	<hr/>	
Charged sewerage fund.....		28,012 49
<i>Acc't House Drains.</i>		
Paid for—		
Labor.....	\$ 53,191 81	
Car fare.....	1,709 49	
Proportion of office expense	1,396 91	
Stationery, books and printing.....	785 76	
Teaming.....	740 50	
Sewer pipe.....	737 10	
Repairing drains.....	236 30	
Telephone.....	88 08	
Filling.....	50 00	
Hardware.....	40 23	
Stamps.....	30 00	
Furniture.....	22 25	
Map.....	10 75	
Paving.....	28 00	
Advertising.....	34 56	
Plumbing.....	10 25	
	<hr/>	
Charged sewerage fund.....		59,111 99
Carried forward.....	\$ 109,671 83	

Brought forward..... \$ 109,671 83

*Acc't Cleaning Sewers and  
Catch-Basins.*

Paid for—

Labor.....	\$ 106,693 85
Teaming .....	30,238 94
Coal and kindlings....	1,744 25
Dumpings.....	841 40
Dredging.....	268 75
Grading.....	495 00
Depreciation of stock.....	608 89
Repairs and pumping.....	311 87
Iron work.....	378 55
Hose .....	443 95
Oil.....	134 25
Flushing Tank.....	161 00
Stationery.....	77 54
Packing .....	68 95
Waste.....	52 22
Soap and candles.....	62 40
Rent of yard.....	60 00
Medical attendance.....	25 00
Plumbing.....	22 32
Rope .....	15 59
Brooms .....	9 20
Salt.....	6 60

Charged sewerage fund. ... 142,720 52

*Acc't Repairing Sewers and  
Catch basins.*

Paid for—

Labor .....	\$ 29,896 56
Teaming .....	4,733 75
Wooden covers.....	4,911 41
Cinders .....	1,148 85
Dredging.....	999 59
Sewer pipe.....	883 35
Brick .....	722 65
Cement .....	531 36

Carried forward..... \$ 43,827 52 \$ 252,392 35

Brought forward....	\$ 43,827 52	\$ 252,392 35
Earth filling .....	396 00	
Iron covers .....	339 61	
Repairing tools .....	385 75	
Coal .....	249 76	
Rent of yard .....	210 00	
Depreciation of stock .....	121 60	
Plumbing .....	371 12	
Sand .....	137 00	
Iron work .....	94 29	
Paving .....	54 00	
Diving .....	35 00	
Oil .....	13 75	
Freight .....	18 00	
Rubber boots .....	9 20	
Lumber .....	6 87	
Advertising .....	7 20	
Charged sewerage fund....		46,276 67

*Acc't Catch-basins.*

## Paid for—

Labor .....	\$ 16,060 52	
Sewer pipe... ..	3,179 55	
Brick .....	3,155 05	
Cement ..	1,551 96	
Wooden covers .....	1,183 72	
Iron covers .....	458 43	
Iron-work .....	481 59	
Repairing tools .....	142 50	
Sand .....	205 50	
Depreciation of stock .....	182 40	
Teaming .....	931 00	
Blasting .....	25 00	
	\$ 27,557 22	
Deduct amount distributed to sewers, North, South and West divisions .....	25,670 42	
Charged sewerage fund....		1,886 80
Carried forward .....		\$ 300,555 82

Brought forward..... \$ 300,555 82

*Acc't Sewerage Office Salaries.*

Paid for—

Salaries of employees.....	\$ 31,031 31	
Charged sewerage fund....		31,631 31

*Acc't Intersections.*

Paid for—

Labor .....	\$ 40,174 39	
Brick .....	10,139 45	
Wooden covers.. ..	4,329 28	
Iron covers.....	3,441 26	
Cement .....	4,897 16	
Teaming .....	5,213 10	
Sewer pipe.....	1,946 69	
Sand.....	302 50	
Depreciation of stock.....	304 00	
Charged sewerage fund.....		70,747 83

*Acc't Sewerage Fund's Proportion of Commissioner's Office Expenses and Salaries.*

Paid for—

One-third salary of Commissioner, Secretary, Book-keeper and others.....	\$ 9,665 95	
Stationery.....	1,388 45	
Annual report .....	702 55	
Car fare.....	741 58	
Postage .....	558 00	
Book-binding .....	42 00	
Horse-keep.....	26 50	
Electric fan .....	25 00	
Rubber stamps.....	7 25	
Satchel .....	4 50	
Carried forward.....	\$ 13,161 78	\$ 402,934 96

Brought forward.....	\$ 13,161 78	\$ 402,934 96
Matches .....	4 50	
Advertising.....	4 30	
	<hr/>	
Charged sewerage fund....		13,170 58
<i>Other Expenditures from Sewerage Fund.</i>		
Sewerage sinking fund.....	\$ 500 00	
River improvement sinking fund .....	500 00	
Salaries of inspectors (special assessment work).....	100,614 55	
Sixty - ninth Street Pump. Works .....	15,341 59	
Ninety-fourth Street Pump. Works .....	6,022 69	
Fifty-first street sewer outlet,	1,627 83	
Deficiency in collection of taxes .....	3,515 64	
	<hr/>	
Charged sewerage fund....		128,122 30
Money advanced and re- funded.....		2,401 01
	<hr/>	<hr/>
Total expenditures..		\$ 546,628 85

## APPROPRIATION FUND.

## RECEIPTS.

*Acc't Improved Streets.*

Amount appropriated by City Council.....	\$ 530,000 00	
Received from general fund.	125,000 00	
From sundry special assess- ment warrants.....	85,320 35	
Paving and inspection.....	51,104 09	
People's Gas Light and Coke Company. ....	12,709 15	
Paving and curbing Four- teenth street.....	1,575 30	
	<hr/>	\$ 805,708 89
Carried forward.....		\$ 805,708 89

Brought forward..... \$ 805,708 89

*Acc't Unimproved Streets.*

Amount appropriated by City

Council .....	\$ 250,000 00	
Illinois Steel Company.....	750 00	
Refund.....	34 38	
	<hr/>	250,784 38

*Acc't Street Permits.*

Received charges on permits

to occupy streets.....	\$ 9,438 50
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Received charges on permits

to open streets (repairing).....	15,499 37
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Received for scale permits..	96 00
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Received for vault permits..	9 00
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	<hr/>	\$ 25,042 87
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Deduct amount received by

transfer from permit de-

positors' accounts.....	24,937 87
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	<hr/>	105 00
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*Acc't Permit Depositors.*

Received deposits for per-

mits to use or occupy

streets for building pur-

poses.....	\$ 18,777 50
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Received deposits for per-

mits to open streets for

laying service pipes.....	53,716 00
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	<hr/>	72,493 50
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*Acc't Sidewalk—General Re-  
pairs and Intersections.*

Amount appropriated by City

Council.....	\$ 50,000 00
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Inspection.....	1,780 00
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	<hr/>	51,780 00
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*Acc't Bridge and Viaduct  
Repairs*

Amount appropriated by City

Council.....	\$ 150,000 00
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Carried forward.....	\$ 150,000 00	\$1,180,871 77
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Brought forward.....	\$ 150,000 00	\$1,180,871 77
West Chicago Street Railway Company.....	133 27	
Chicago and North-Western Railway Company.....	400 00	
Scrap iron.....	318 08	
Garden City Sand Company (refund).....	206 00	
Lumber sold.....	41 47	
Received for empty barrels .	15 65	
J. Fitzgerald, damage to the Fullerton avenue bridge..	37 74	
Thomas Cooper, damage to the Halsted street bridge.	16 60	
	<hr/>	151,168 79
<i>Acc't Public Buildings.</i>		
Amount appropriated by City Council. ....	\$ 40,000 00	
Old cable sold.....	5 00	
	<hr/>	40,005 00
<i>Acc't Janitor's Salaries.</i>		
Amount appropriated by City Council.....	\$ 42,180 00	
Received for labor.....	13 85	
	<hr/>	42,193 85
<i>Acc't Bridge Telephone Sal- aries.</i>		
Amount appropriated by City Council.....	\$ 11,825 00	
Received for labor.....	1 75	
	<hr/>	11,826 75
<i>Acc't Bridge Tender's Sal- aries.</i>		
Amount appropriated by City Council.....	\$ 93,943 00	
Received for labor.....	117 50	
	<hr/>	94,060 50
Carried forward.....		\$1,520,126 66

Brought forward..... \$1,520,126 66

*Acc't Special Assessments.*

Amount received from special assessment fund for cost of making and collecting special assessments, salaries and office expenses	\$ 366,781 12	
Amount received for use of steam roller.....	1,177 00	
Inspection.....	372 75	
Amount received for labor..	187 75	
	<hr/>	368,518 62

*Acc't Street Department Office Expense.*

Amount appropriated by City Council.....	\$ 1,500 00	
Refund.....	90 50	
	<hr/>	1,590 50

*Acc't Fullerton Ave. Conduit.*

Amount appropriated by City Council.....	\$ 15,000 00	
Amount received for labor..	6 00	
	<hr/>	15,006 00

*Acc't Canal Pump. Works.*

Amount appropriated by City Council.....	\$ 140,000 00	
Received for scrap iron....	60 00	
Received for labor.....	13 50	
	<hr/>	140,073 50

*Acc't Ogden Ave. Viaduct.*

Amount appropriated by City Council.....	\$ 68,000 00	
Chicago and North-Western Railway.....	22,732 78	
Pittsburgh, Cincinnati, Chicago and St. Louis R'y..	26,707 49	
Sundries.....	8 60	
	<hr/>	117,448 87
Carried forward.....		<hr/> \$2,162,764 15

Brought forward..... \$2,162,764 15

*Miscellaneous Appropriations*

For—

Public parks.....		20,700 00
Public benefits (improving intersections).....		75,000 00
City Engineer's office ex- pense.....		2,000 00
Map office expense.....		700 00
Street office salary, amount appropriated by City Council.....	\$ 48,660 00	
Refund.....	15 36	
	<hr/>	48,675 36
City Engineer's office salary.		16,500 00
Map Department office sal- ary.....		19,300 00
One-third salary and office expenses of Commissioner, Secretary, Book-keeper and others.....	\$ 8,986 66	
Received for labor.....	54 94	
	<hr/>	9,041 60
Proportional office expense.		3,000 00
Vessel Despatcher.....		2,400 00
Belmont avenue bridge....		25,000 00
California avenue bridge....		25,000 00
Ogden ditch dam ... ..		1,000 00
Canal street bridge.....		40,000 00
Chicago harbor.....		86,100 00

*Acc't Ninety-fifth St. Bridge.*

Received from South Chicago City Street R'y Co. for re- pairs .....	404 74
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*Acc't House Moving Permits.*

Amount received for house moving permits.....	4,303 00
Carried forward.....	<hr/> \$2,541,888 85

Brought forward.....	\$2,541,888 85
<i>Acc't West Taylor Street Viaduct.</i>	
Amount received from West Chicago Street R'y Co...	45,401 55
<i>Acc't North Halsted Street Viaduct.</i>	
From Chicago and North-Western R'y.....	\$ 9,789 88
From Chicago, Milwaukee and St. Paul R'y.....	3,222 00
From Pittsburgh, Cincinnati, Chicago and St. Louis R'y	8,932 00
	<hr/>
	21,944 78
World's Columbian Exposition deposit to cover cost of enlargement of Sixty-eighth street Pump. Station	70,462 10
Rapid Transit and Bridge Construction Co., deposit to cover inspection.....	500 00
Pennsylvania R'y Co., deposit account paving Stewart avenue.....	1,515 47
	<hr/>
Total receipts.....	<u>\$2,681,712 75</u>

## EXPENDITURES.

*Acc't Improved Streets.*

Paid for—

Labor.....	\$ 330,733 35
Street cleaning by contract..	130,548 63
Repaving .....	104,549 68
Stone and gravel .....	30,455 10
Lumber.....	18,046 47
Cedar blocks.....	6,550 75
Hardware .....	1,679 07
Car fare.....	1,324 32
	<hr/>
Carried forward.....	\$ 623,887 37

Brought forward....	\$ 623,887 37	
Rent.....	1,252 44	
Deposits refunded.....	1,032 43	
Slag.....	953 50	
Brooms.....	964 52	
Sand.....	427 31	
Carts.....	621 00	
Steel barrels.....	450 00	
Nails.....	491 84	
Sprinkling.....	464 70	
Coal.....	524 46	
Dredging.....	600 00	
Atlas.....	400 00	
Boiler.....	298 00	
Repairing tools.....	272 54	
Heating tank.....	300 00	
Buggy.....	217 50	
Overalls.....	157 60	
Stationery.....	372 20	
Telephone use.....	83 34	
Horse keep.....	66 40	
Postage.....	131 73	
Horse shoeing.....	27 75	
Iron work.....	130 37	
Hoes.....	25 50	
Shovels.....	13 50	
Hose.....	13 44	
Teaming.....	89 25	
Cement.....	66 96	
Miscellaneous.....	1,000 89	
		\$ 635,336 54

*Acc't Unimproved Streets.*

Paid for—

Labor....	\$ 242,102 69	
Lumber.....	11,807 22	
Stone and gravel.....	2,492 63	
Hardware.....	920 03	
Slag.....	722 50	
Cinders.....	417 50	
Carried forward.....	\$ 258,462 57	\$ 635,336 54

Brought forward.....	\$ 258,462 57	\$ 635,336 54
Sewer pipe.....	451 50	
Rent.....	325 00	
Damages.....	273 00	
Iron work.....	247 52	
Repairing tools.....	147 22	
Car fare.....	129 39	
Nails.....	189 18	
Brick.....	100 00	
Horse keep.....	29 70	
Sacks.....	35 50	
Plows and scrapers.....	69 50	
Rubber boots.....	82 28	
Miscellaneous.....	138 12	
	<hr/>	260,680 48

*Acc't Sidewalk, General Re-  
pairs and Intersections.*

Paid for—

Labor.....	\$ 101,254 46	
Stationery.....	88 71	
Removing sign.....	68 50	
Rebates.....	79 23	
Hardware.....	24 02	
	<hr/>	101,514 92

*Acc't Public Buildings, City  
Hall.*

Paid for—

Coal.....	\$ 24,379 49	
Labor.....	3,264 74	
Decorating and cleaning walls.....	1,939 85	
Furniture.....	1,821 01	
Electric lamp, brushes and dynamo fittings.....	1,469 21	
Desks and chairs.....	955 72	
Carpets.....	1,045 00	
Plumbing.....	777 45	
Janitor's supplies.....	986 19	
	<hr/>	
Carried forward.....	\$ 36,638 66	\$ 997,531 94

Brought forward.....	\$ 36,638 66	\$ 997,531 94
Elevator cables .....	475 17	
Oil .....	534 12	
Gas.....	377 80	
Steam fittings.....	155 37	
Lumber.....	294 47	
Repairing dynamo.....	350 00	
Iron work.....	166 05	
Glass .....	133 00	
Wire work... ..	260 57	
Repairs to engines and boil- ers.....	671 15	
Paint, oil, etc.....	171 58	
Stationery .....	116 90	
Locks and keys.....	26 40	
Castings.....	161 44	
Hardware .....	248 20	
Boxes.....	99 50	
Indicator.....	19 50	
Brick .....	46 40	
Packing.....	98 94	
Flag.....	41 25	
Awnings.....	90 00	
Ice .....	284 49	
Miscellaneous. ....	492 50	
		41,943 46

*Acc't Special Assessments.*

## Paid for—

Salaries of clerks, engineers, rodmen, etc.....	\$159,315 36	
Collecting assessments.....	57,948 56	
Commissioners making assessments .....	33,510 75	
Clerk of County Court, copy- ing rolls.....	20,536 50	
Expert services.....	17,654 30	
Advertising.....	12,777 11	
Legal expenses.....	4,595 45	
Books, printing and station- ery ... ..	3,889 87	
Carried forward.....	\$ 310,027 90	\$1,039,475 40

Brought forward.....	\$ 310,027 90	\$1,039,475 40
Repairing steam roller.....	1,860 89	
Stenographer's services.....	988 25	
Instruments.....	810 65	
Coal.....	611 58	
Car fare.....	386 62	
Plats.....	393 00	
Atlas.....	225 00	
Damages.....	250 00	
Furniture.....	135 50	
Caligraph.....	110 00	
Oil.....	74 11	
Hardware.....	25 72	
Livery.....	59 25	
Tape lines.....	21 60	
Rubber stamps.....	35 20	
Miscellaneous.....	960 33	
Waste.....	13 35	
	<hr/>	316,988 95

*Acc't Chicago Harbor.*

## Paid for—

Dredging.....	\$ 69,259 72	
Labor.....	22,566 42	
Repairing dock.....	452 44	
Transit.....	234 00	
Damages.....	101 20	
Tug service.....	78 25	
Printing and advertising...	91 30	
Car fare.....	46 78	
Diving.....	40 00	
Tape lines.....	12 00	
Sundries.....	35 20	
	<hr/>	92,917 31

*Acc't Bridge Repairs.*

## Paid for—

Labor.....	\$ 84,200 00	
Iron and machine work ....	9,039 48	
Lumber.....	9,435 60	
Coal.....	7,741 11	
	<hr/>	
Carried forward.....	\$ 111,016 19	\$1,449,381 66



Brought forward ....	\$111,016 19	\$1,449,381 66
Paving .....	5,772 75	
Paint and oil .....	3,479 90	
Pile driving and dredging ..	7,161 85	
Power, Rush street bridge ..	5,726 23	
Repairs, Indiana st. viaduct.	5,626 00	
Oil and grease .....	957 08	
Nails .....	522 36	
Printing, advertising, etc....	1,332 46	
Tug and scow service .....	599 10	
Earth filling .....	225 00	
Waste and packing .....	629 05	
Hardware .....	1,183 05	
Cable .....	175 15	
Railroad and car fare .....	97 02	
Lamps .....	101 33	
Brick .....	213 75	
Tools .....	323 79	
Teaming .....	190 74	
Furniture .....	173 55	
Janitor's supplies .....	45 65	
Damages .....	338 83	
Brooms .....	146 65	
Rope and chain .....	244 95	
Boiler repairs .....	136 00	
Diving .....	35 00	
Glass .....	32 07	
Plumbing .....	112 13	
Sundries .....	301 48	
	<hr/>	146,899 11

*Acc't Viaduct Repairs.*

Paid for—

North Clark street viaduct..	\$	5,100 00	
Eighteenth street viaduct...		2,327 75	
Labor .....		2,567 17	
Advertising .....		32 76	
		<hr/>	10,027 68
Carried forward ...			<hr/>
			\$1,606,308 45

Brought forward . . . .

\$1,606,308 45

*Acc't Canal Pumping Works.*

Paid for—

Salaries of engineers, fire-  
men and for labor . . . . .

\$ 38,786 83

Coal . . . . .

37,416 25

New boilers . . . . .

7,458 00

Engine and boiler repairs . .

6,061 30

Iron work . . . . .

5,728 79

Boiler cleaners . . . . .

1,100 00

Steam fittings . . . . .

1,091 78

Oil and grease . . . . .

1,026 95

Lumber . . . . .

608 18

Waste and packing . . . . .

706 41

Boiler compound . . . . .

460 00

Foundations . . . . .

400 00

Teaming . . . . .

330 00

Pump . . . . .

285 00

Lock keepers . . . . .

160 00

Dredging buckets . . . . .

122 50

Purifiers . . . . .

270 00

Lubricators . . . . .

75 34

Pile driving . . . . .

200 07

Stationery and blue prints . .

35 23

Brick work . . . . .

273 28

Hardware . . . . .

197 88

Machine work . . . . .

408 38

Janitor's supplies . . . . .

109 94

Furniture . . . . .

33 50

Ice . . . . .

15 90

Car fare . . . . .

24 95

Horse keep . . . . .

62 00

Rubber boots . . . . .

35 87

Sundries . . . . .

80 09

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103,564 42*Acc't Fullerton Avenue Con-  
duit.*Salaries of engineers, fire-  
men and for labor . . . . .

\$ 8,153 51

Coal . . . . .

6,155 56

Carried forward . . . . .

\$ 14,309 07

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\$1,709,872 87

Brought forward.....	\$14,309 07	\$1,709,872 87
Smoke consumers .....	900 00	
Gas .....	331 40	
Oil .....	316 15	
Dampers .....	225 00	
Propeller wheel.....	195 00	
Car fare.....	18 28	
Postage.....	43 90	
Waste and packing.....	45 84	
Brick .....	36 75	
Grate-bars.....	51 48	
Mason-work .....	28 17	
Tools .....	7 32	
Hose.....	14 04	
Steam fitting.....	14 53	
Hardware .....	11 64	
Sundries .....	27 15	
	<hr/>	16,575 72

*Acc't Ogden Avenue Viaduct.*

Paid for—

Contractor .....	\$ 86,733 08	
Paving .....	7,027 99	
Labor .....	3,820 72	
Inspection .....	1,194 17	
Iron pipe.....	128 00	
Blue prints .....	112 62	
Filling .....	110 00	
Repairing instruments .....	26 25	
Car fare.....	27 40	
Advertising .....	12 00	
	<hr/>	99,192 23

*Acc't North Halsted Street Viaduct.*

Paid for—

Contractor .....	\$ 49,071 13	
Labor .....	340 65	
	<hr/>	49,411 78
Carried forward.....		<hr/>
		\$1,875,052 60

Brought forward.....

\$1,875,052 60

*Acc't Proportional Office  
Salary and Expense.*

Paid for—

One-third salary of Commissioner, secretary, book-keeper and others.....	\$	7,376 41
Stationery, printing and binding .....		1,409 23
Annual report .....		702 57
Car fare.....		826 85
Postage .....		605 25
Typewriter .....		97 50
Horse-keep .....		72 75
Rubber stamps.....		36 75
Sundries .....		7 65

11,134 96

*Acc't Map Office Expense.*

Paid for—

Stationery .....	\$	630 39
Binding .....		28 50
Letters.....		14 56
Car fare.....		16 00
Dusters .....		5 19

692 64

*Acc't City Engineer's Office  
Expense.*

Paid for—

Car fare.....	\$	849 64
Stationery, blue prints, etc..		753 50
Level .....		133 00
Map .....		20 00
Mats .....		17 50
Cabinet .....		31 50
Hardware .....		27 02
Postage .....		26 25
Labor.....		47 24
Sundries .....		84 91

1,990 56

Carried forward.....

\$1,888,870 76

Brought forward.....		\$1,888,870 76
<i>Acc't Street Department—</i>		
<i>Office Expense.</i>		
Paid for—		
Stationery .....	\$	735 94
Car fare .....		853 27
Atlas .....		75 00
Telephone .....		37 50
City ordinances .....		15 00
Cushion .....		6 00
Hardware .....		546 00
		<hr/> 1,728 17
<i>Acc't Street Permits.</i>		
Paid for—		
Rebate to depositors .....		2,271 78
<i>Acc't House-Moving Permits.</i>		
Paid for		
Clerical services .....	\$	2,952 85
Car fare .....		98 80
Stationery .....		28 75
Advertising .....		20 55
		<hr/> 3,100 95
<i>Acc't Permit Depositors.</i>		
Paid—		
Rebates to depositors .....		35,368 05
<i>Acc't Belmont Avenue Bridge.</i>		
Paid for—		
Labor .....	\$	416 16
Blue prints .....		11 32
Car fare .....		8 21
		<hr/> 435 69
<i>Acc't Thirty-Fifth Street Bridge.</i>		
Paid for—		
Superstructure .....		500 00
Carried forward.....		<hr/> \$1,932,275 40

Brought forward..... \$1,932,275 40

*Acc't California Avenue  
Bridge.*

Paid for—

Contractor .....	\$ 5,770 29	
Labor.....	437 15	
Blue prints.....	14 00	
Car fare.....	5 00	
	<hr/>	6,226 44

*Acc't Canal Street Bridge.*

Paid for—

Labor .....	\$ 662 69	
Refund Joseph Soper.....	500 00	
Refund G. H. Park.....	500 00	
Refund Schoenhofen Brg. Co	3,000 00	
Refund A. M. Maltby.....	2,000 00	
Refund W. Raleigh.....	50 00	
Refund C. Seipp Brg. Co...	1,000 00	
Refund W. Wentworth.....	50 00	
Refund Meyer and Skor-		
drumski.....	25 00	
Refund Alzell Bros.....	100 00	
Refund P. Brennan.....	100 00	
Refund W. Dunne .....	50 00	
Refund W. Pritchard.....	50 00	
Refund J. Hubbard, Jr.....	75 00	
Refund Harder and Hafer..	100 00	
Refund B. H. Simon.....	25 00	
Refund J. Eisenstedt.....	150 00	
Refund Joseph Bros.....	50 00	
Refund W. E. Frost Mfg. Co.	100 00	
	<hr/>	8,587 69

*Acc't Taylor Street Bridge.*

Paid for—

Labor.....	416 12
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*Acc't Halsted Street Bridge.*

Paid for—

Sundries.....	164 20
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Carried forward.....	<hr/> \$1,947,669 85
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Brought forward.....		\$1,947,669 85
<i>Acc't Ogden Ditch Dam.</i>		
Paid for—		
Labor.....	\$ 389 00	
Car fare.....	6 00	
	<hr/>	395 00
<i>Acc't West Taylor Street Viaduct.</i>		
Paid for—		
Contractor.....	\$ 2,490 36	
Inspection.....	26 65	
Car fare.....	1 80	
	<hr/>	2,518 81
<i>Acc't Washington Square.</i>		
Paid for—		
Labor.....	\$ 1,104 25	
Sodding.....	295 00	
Hose.....	91 16	
Plumbing.....	25 00	
Hardware.....	4 90	
Repairing lawn mower.....	9 00	
Sundries.....	5 83	
	<hr/>	1,535 14
<i>Acc't Aldine Square.</i>		
Paid for—		
Labor.....	\$ 770 41	
Plumbing.....	150 60	
Compost.....	25 00	
Hardware.....	4 19	
Sundries.....	22 80	
	<hr/>	973 00
<i>Acc't Douglas Monument Square.</i>		
Paid for—		
Labor.....	\$ 738 72	
Fence.....	876 20	
	<hr/>	
Carried forward.....	\$ 1,614 92	\$1,953,091 80

Brought forward.....	\$	1,614 92	\$1,953,091 80
Fountain.....		50 00	
Compost.....		37 50	
Hose.....		18 50	
Painting.....		15 00	
Hardware.....		14 43	
Seed.....		7 13	
		<hr/>	1,757 48

*Acc't Ellis Park.*

Paid for—

Labor.....	\$	677 29	
Compost.....		31 25	
Hose.....		24 00	
Repairing fence.....		10 10	
Seed.....		7 50	
Sundries.....		10 90	
		<hr/>	761 04

*Acc't Bickerdike Square.*

Paid for—

Seed.....	\$	28 53	
Hose.....		27 50	
		<hr/>	56 03

*Acc't Jefferson Park.*

Paid for—

Labor.....			63 00
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*Acc't Irving Park.*

Paid for—

Plumbing.....			5 00
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*Acc't East End Park.*

Paid for—

Repairing breakwater.....	\$	991 75	
Labor.....		300 60	
Sundries.....		2 09	
		<hr/>	1,294 44

*Acc't Green Bay Park.*

Paid for—

Labor.....			150 50
Carried forward.....			<hr/> \$1,957,179 29



Brought forward.....		\$1,957,179 29
<i>Acc't Oak Park.</i>		
Paid for—		
Labor.....	\$ 70 50	
Sodding.....	200 00	
	<hr/>	270 50
<i>Acc't Holstein Park.</i>		
Paid for—		
Labor.....		120 00
<i>Acc't Gross Park.</i>		
Paid for—		
Filling and sodding.....	\$ 340 00	
Hardware .....	32 00	
Plumbing.....	7 25	
Hose.....	2 68	
	<hr/>	381 93
<i>Acc't Congress Park.</i>		
Paid for—		
Plumbing.....		20 39
<i>Acc't Shedd's Park.</i>		
Paid for—		
Plants.....	\$ 30 00	
Hardware.....	5 40	
Labor. ....	5 00	
	<hr/>	40 40
<i>Acc't Public Benefits.</i>		
City proportion of improving street intersections.....		73,457 14
<i>Acc't Salaries.</i>		
Paid for—		
Employees Street Depart- ment.....	\$ 39,251 32	
Employees City Engineer's Department.....	23,022 65	
	<hr/>	
Carried forward.....	\$ 62,273 97	\$2,031,469 65

Brought forward.....	\$ 62,273 97	\$2,031,469 65
Employees Map Department	18,443 43	
Janitors, engineers, firemen and for labor, City Hall..	43,438 32	
Bridge telephone operators.	9,597 74	
Vessel dispatcher.....	2,357 00	
Bridge tenders .....	92,429 30	
		228,539 76

*Acc't Special Deposits.*

Amount refunded to sundry parties to cover cost of removing street obstruc- tions, made by special de- posit.....		2,010 00
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*Acc't World's Columbian  
Exposition, for the enlarge-  
ment of Sixty-eighth Street  
Pumping Station.*

Paid for—

Labor.....	\$ 20,518 02	
Engines and boilers. ....	16,625 00	
Building.....	13,182 25	
Roof and floors.....	13,253 28	
Engine foundations.....	6,497 27	
Iron work.....	1,617 64	
Brick .....	1,980 00	
Lumber .....	500 88	
Castings.....	722 40	
Iron doors.....	485 00	
Stone .....	184 00	
Copper work.....	169 00	
Bolts.....	107 81	
Sand.....	89 70	
Sundries .....	143 65	
		76,075 90

*Acc't Board of Education.*

For elevator service.....		13 25
Carried forward.....		\$2,338,108 56

Brought forward.....		\$2,338,108 56	
<i>Acc't Public Library.</i>			
For elevator service.....		795 00	
<i>Miscellaneous Expenditures.</i>			
Chicago, Madison & North- ern Railway (paving)....	\$	188 22	
Palmer & Newberry (rebate).....		270 58	
Rapid Transit and Bridge Construction Co. (inspec- tion).....		1,200 00	
Western Paving and Supply Co. (refund).....		200 00	
Pennsylvania Co. (improving Stewart avenue).....		1,515 47	
Deficiency in collection of taxes.....		26,390 72	29,764 99
Total expenditures..			<u>\$2,368,668 55</u>

## TRIAL BALANCE.

LEDGER, DEPARTMENT PUBLIC WORKS, CHICAGO,  
DECEMBER 31, 1892.

	<i>Dr.</i>	<i>Cr.</i>
Water fund.....		\$ 271,097 39
Water Works.....	\$ 20,378,255 24	
Water Works, income.....		30,104,578 05
Water fund, general taxes.....		2,713,878 53
Annexed territory.....		197,525 48
Water loan bonds, 6 per cent.....		132,000 00
Water loan bonds, 7 per cent.....		2,026,000 00
Water loan bonds, 4 per cent.....		1,130,500 00
Water loan bonds, $3\frac{5}{10}\%$ per cent.....		332,000 00
Water loan bonds, $3\frac{1}{2}\%$ per cent.....		333,500 00
Water loan bonds, canceled.....		889,900 00
Water fund, investment.....		334,000 00
Water loan, interest.....	7,381,103 89	
Hyde Park bonds, 5 per cent.....		50,000 00
Hyde Park bonds, 7 per cent.....		384,000 00
Town of Lake bonds, 5 per cent.....		150,000 00
Town of Lake bonds, 7 per cent.....		222,000 00
Water works, expense and repairs.....	11,912,684 17	
Lake View bonds, 4 per cent.....		50,000 00
Lake View bonds, 5 per cent.....		23,000 00
Lake View bonds, 7 per cent.....		75,000 00
American Exchange Nat'l Bank, N. Y....	116,420 27	
J. Hardacre .....	100 00	
J. W. Lyons, cashier.....	1,691 88	
Meter department, stock account.....	7,699 02	
Water Works' shop, stock account....	9,552 93	
Tapping department, stock account..	4,865 99	
Michigan avenue property.....	980 03	
Water Works' shop.....	115 53	
Advances .....		392,447 68
Carried forward.....	\$ 39,813,468 95	\$ 39,811,427 13

Brought forward.....	\$ 39,813,468 95	\$ 39,811,427 13
Hydrant wrenches.....		2,041 82
Sewer fund.....	21,407 14	
Annexed territory.....		2,614,224 75
Sewers constructed by Special Assessment Department.....		3,198,516 93
Sewers, North Division.....	2,404,633 74	
Sewers, South Division.....	5,049,831 30	
Sewers, West Division.....	6,233,432 78	
Sewer pipe.....	3,936 50	
Sewer brick.....	79 90	
Wooden covers.....	3,982 42	
Iron covers.....	2,858 24	
Cement.....	116 64	
Sand.....	40 00	
Special deposits.....		11 00
Sewerage, private work.....		5,149 29
Sewerage loan bonds, 4 per cent.....		845,000 00
Sewerage loan bonds, 7 per cent.....		1,288,000 00
Sewerage loan bonds, 4½ per cent.....		489,500 00
Sewerage loan bonds, canceled.....		377,500 00
Sewerage fund, general taxes.....		5,156,061 00
General fund.....	382 55	
Surplus account.....	111,548 77	
Advances.....		13,918 07
Sewerage maintenance account.....	157,441 42	
Deficiency in collection of taxes.....		2,615 27
Sewerage, stock account.....	9,000 00	
Sixty-ninth street pump. works (sewer)		14,845 61
Ninety-fourth street pump. works (sewer)	5,022 69	
Fifty-first street sewer outlet.....	1,627 83	
Appropriation fund.....	114,801 24	
Town of Jefferson.....	2,100 00	
Inspection account.....		97 50
Rapid Transit & Bridge Construction Company.....	366 65	
Simmons & Gordon.....		29 16
Public parks.....		8,705 15
Public benefits.....		1,371 95
Bureau of Light.....	3,461 00	
Fullerton avenue conduit.....	3,242 28	
Carried forward..	\$ 53,942,782 04	\$ 53,829,014 63

Brought forward.....	\$ 53,942,792 04	\$ 53,829,014 63
Canal pump. works.....		30,710 46
Canal pump. works extension.....		51,187 63
Weed street bridge.....	533 25	
Ninety-fifth street bridge.....	17,469 21	
Belmont avenue bridge.....		30,951 70
Thirty-fifth street bridge.....		887 90
California avenue bridge.....		21,089 70
Street Department, stock account.....	5,982 32	
R. A. Smith, cashier.....	1,500 00	
Deficiency in collection of taxes.....	35,800 19	
Surplus account .....		4,824 27
Ogden ditch dam. ....	1,819 10	
Taylor street bridge.....	19,621 81	
Canal street bridge.....		38,171 41
West Taylor street viaduct.....		28,064 81
Ogden avenue viaduct.....		4,378 13
Webster avenue bridge.....		4,047 67
Washington street bridge.....		2,440 81
Special deposits.....		27 50
Board of Education.....	15 75	
Public Library.....	795 00	
World's Columbian Exposition.....		8,203 25
North Halsted street viaduct.....	27,467 00	
Halsted street bridge .....	164 20	
	<u>\$54,053,949 87</u>	<u>\$54,053,949 87</u>

Respectfully submitted,

JOHN A. McINTOSH,

*Book-keeper.*









# APPENDIX.

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## THE LAKE FRONT.

On December 5, 1892, the Supreme Court of the United States decided in favor of the State of Illinois and City of Chicago, and against the Illinois Central Railroad Company, the great Lake Front case involving the ownership of the water front and shore between the north line of Randolph street and the south line of Lake Park, and of the submerged lands constituting the bed of Lake Michigan lying between the mouth of the Chicago River and the south line of lot 21 (about 600 feet north of Sixteenth street), extended eastwardly and for one mile from shore. This case is one of such great public importance to the City of Chicago, and has excited so much public interest, that a brief resume here is proper.

The ground between the west line of Michigan avenue and Lake Michigan and between the center of Madison street and the center of Twelfth street (except block 23, fronting north on Park Row, east of Michigan avenue), was dedicated to public use, as "Michigan avenue," in 1836, by the Commissioners of the Illinois and Michigan canal, by the subdivision and plat of fractional Section 15, Township 39 North, Range 14, east of the Third Principal Meridian. That part of Section 10 lying between the center of Madison street and the Chicago River, and the center of State street and Lake Michigan constituted Fort Dearborn Military Reservation and was the site of Fort Dearborn. After its abandonment as a military post, and in 1839, this reservation was subdivided by the United States and a plat was made and recorded by an agent of the Secretary of War of the United States, and the ground west of Michigan avenue between Washington and Randolph streets, which is the site of the Public Library Building now in process of erection, and the ground between Michigan avenue and Lake Michigan and between the center of Madison street and the south line of Randolph street, were by such plat dedicated to public use as "Public ground forever to remain vacant of buildings." By these subdivisions the ground known as the Lake park was dedicated to public use. The shore of Lake Michigan between Twelfth street and Madison street, as laid down on the plat of the Canal Commissioners of 1836, was about 700 feet east from the west line of Michigan avenue at Twelfth street, and then bearing more westerly to the section line at the center of Madison street extended eastwardly. And the shore line, north of Madison street, as shown

by the survey made in 1837 upon the plat of the Secretary of War known as the "Birchard plat," made in 1837, continued to incline westerly north of Madison street, so that at the north line of Randolph street it was about 140 feet east of the west line of Michigan avenue. Later the waters of the lake encroached greatly upon the shore between Randolph street and Park Row, although the City and property owners on Michigan avenue, from time to time, took steps to protect the shore from further encroachments.

June 14, 1852, an ordinance was passed by the Common Council authorizing the Illinois Central Railroad Company, which was then constructing its line of railroad to the City of Chicago, to construct and maintain its railroad entering the City at or near the intersection of its southern boundary (Twenty-second street) and following the shore on or near the margin of the lake northerly to the southern bounds of the open space known as "Lake Park," in front of Section 15, and continuing northerly across such open space to such grounds as the railroad company might acquire between the north line of Randolph street and the Chicago River, upon which grounds should be located the depot of said company and such other buildings, slips or apparatus as might be necessary and convenient for its business. And the ordinance provided that the company might enter upon and use in perpetuity for its line of road and other works necessary to protect the same from the lake a width of 300 feet from the southern boundary of the said public ground near Twelfth street to the northern line of Randolph street, the west line of said ground to be used by the company to be not less than 400 feet east from the west line of Michigan avenue and parallel thereto. The ordinance also required the railroad company to erect and maintain on such western line of its right of way along the Lake Park such suitable walls, fences, or other sufficient works as would prevent animals from straying upon its tracks and secure persons and property from danger, the same to be of suitable materials and slightly appearance and of such height as the Common Council might direct, and that no change therein should be made except by mutual consent; and that the company should construct such suitable gates at the ends of the streets, then or thereafter to be laid, as might be required by the Common Council, to afford safe access to the lake; and that in case of the construction of an inner harbor, streets might be laid out to approach the same in the manner provided by law, in which case the Common Council might regulate the speed of locomotives and trains across them. The ordinance also provided that the company should erect and complete, within three years after the acceptance of the ordinance, and forever maintain a continuous wall or pier structure from the north line of Randolph street to the southern boundary of Lake Park, at a distance of not less than 300 feet east from and parallel with the western or inner line of said railroad right of way, and to continue said works, with all reasonable dispatch, to the southern boundary of the City--said structure

and works to be of sufficient strength and magnitude to protect the front from further damage or injury from the action of the waters of Lake Michigan. The ordinance also provided that the company should not, in any manner, nor for any purpose whatever, occupy, use or intrude upon the Lake Park, between Michigan avenue and its right of way, except so far as the Common Council might consent, for the convenience of the company while constructing or repairing works in front thereof; and that the company should erect no buildings between the north line of Randolph street and the south line of Lake Park, nor occupy nor use the works proposed to be constructed between these points, except for the passage of or for making up or distributing their trains, nor place upon any part of their works between said points any obstruction to the view of the lake from the shore, nor suffer their locomotives, cars or other articles to remain upon their tracks, but only erect such works as are proper for the construction of their necessary tracks and protection for the same. The ordinance also provided that the railroad company might extend its works and fill out into the lake (north of Randolph street), to a point in the southern pier (the government pier on the south side of the channel of the river) not less than 400 feet west from the (then) present east end of the same, thence parallel with Michigan avenue to the northern line of Randolph street extended. This line is understood to be the west line of slip "C," extending from the river southerly to the north line of Randolph street.

The railroad was constructed into the City to the passenger station at Lake street; and from about Park row to Randolph street and in front of the Lake Park was constructed upon a pile bridge over the waters of the Lake. It constructed the breakwater upon the outside of its right of way along this public ground at a distance of 200 feet (instead of 300 as permitted by the ordinance of 1852) east of the west line of its right of way, or 600 feet east of the west line of Michigan avenue. After the fire of 1871 the public ground west of the railroad and the railroad right of way were filled and the shore line extended to the present breakwater.

The railroad company also extended its road north of Randolph street by filling into the lake to the line permitted by the ordinance of 1852 (the west line of slip "C," about 1,400 feet east of the west line of Michigan avenue). Then it constructed slip "C," and in 1887 filled in and constructed pier "C" east of this slip, extending from the river to the south line of Randolph street extended eastwardly; the pier and slip being about 400 feet wide from east to west, the shore line was thus extended to a point 1,792 feet east of the west line of Michigan avenue. This pier and slip were constructed, so far as appears, without any lawful authority. On September 10, 1855, an ordinance was passed permitting the railroad company also to occupy with its tracks and use a small triangular portion of the Lake Park west of the right of way prescribed by the ordinance of 1852,

lying south of the north line of Randolph street, thereby permitting it to curve its tracks at that point westwardly to get into the passenger station, so as to cross the said west line of its right of way as prescribed by the ordinance of 1852 at a point not more than 200 feet south of Randolph street and crossing the north line of Randolph street extended, at a point not more than 100 feet westerly of the line fixed by the ordinance of 1852. And on September 15, 1856, another ordinance was passed providing that the railroad company might occupy and use a triangular parcel east of the breakwater near Randolph street, being bounded on the east and south by a line drawn from a point in the (then) present breakwater 700 feet south of the north line of Randolph street extended, thence north and easterly to the southeast corner of its (then) present breakwater (being the south end of the east line of slip "C"), the two rectangular sides of the triangular parcel being 700 feet north and south by about 800 feet from east to west on the northern line.

On April 16, 1869, the General Assembly passed, over the veto of Gov. Palmer, the Lake Front Act. This Act evoked a storm of public indignation and criticism. As originally introduced, it was entitled "An Act to enable the City of Chicago to enlarge its harbor and to grant and to cede all the rights, title and interest of the State in and to certain lands lying on and adjacent to the shore of Lake Michigan on the eastern frontage of said city;" and the City of Chicago was the grantee. The Act as passed, with the Illinois Central Railroad Company as the grantee, was the result of amendments of this original bill. The Act, as passed over the governor's veto, confirmed "the right of the Illinois Central Railroad Company under the grant from the State in its charter, \* \* and under and by virtue of its appropriation, occupancy, use and control, and the riparian ownership incident to such grant, appropriation, occupancy, use and control, in and to the lands submerged or otherwise, lying east of the line running parallel with, and 400 feet east of, the west line of Michigan avenue, in fractional sections 10 and 15," *i. e.*, east of the west line of its right of way. Under this provision, it has been claimed by the railroad company that its title to the ground occupied as its right of way and to water front and riparian rights from the north line of Randolph street to the south line of Lake Park was established.

The Act also granted to the Illinois Central Railroad Company, its successors and assigns, all the right and title of the State of Illinois in and to the submerged lands constituting the bed of Lake Michigan and lying east of the tracks and breakwater of the Illinois Central Railroad Company, for the distance of one mile, and between the south line of the south pier (the government pier along the south side of the Chicago river at its mouth), extended eastward, and a line extended eastward from the south line of lot 21, south of and near the round-house and machine shops of said company (about 600 feet

feet north of Sixteenth street) ; being an area of submerged lands about 1½ miles from north to south and containing over 1,000 acres. The Act provided, however, that the fee to said land should be held by the company in perpetuity, and that the company should not have power to grant, sell or convey the fee to the same; and that nothing therein contained should authorize obstructions to the Chicago harbor, or impair the public right of navigation.

The Act also granted in fee to the Illinois Central, Chicago, Burlington & Quincy, and Michigan Central Railroad Companies all the right and title of the State in and to the lands lying north of the south line of Monroe street and south of the line of Randolph street, and between the east line of Michigan avenue and the track and roadway of the Illinois Central Railroad Company, for the erection thereon of a passenger depot and for such other purposes as the business of said company might require; and required these railroad companies to pay to the city of Chicago the sum of \$800,000 in certain installments, and authorized the Common Council of the City to quit-claim to the railroad companies. And the Act provided that in case the Common Council should neglect or refuse thus to quit-claim within four months, the companies should be discharged from all obligation to pay the balance unpaid to the City.

This Act was accepted by the Illinois Central Railroad Company; and afterwards, on April 15, 1873, the Act was repealed by the General Assembly.

The litigation in question was commenced in 1883, by the Attorney General of Illinois, who filed his bill of information in equity in the Circuit Court of Cook County against the Illinois Central Railroad Company, the City of Chicago and the United States, to settle the rights of the parties in the land, water-front and submerged land in question. This suit was removed by the railroad company into the Circuit Court of the United States for the Northern District of Illinois. It was heard in that court in 1888, before Justice Harlan and Judge Blodgett, and resulted in a decree establishing the title of the railroad company to its filling into the lake and piers and structures already made between Randolph street and the river, and between Twelfth and Sixteenth streets, but enjoining and restraining any further encroachments in the lake by the railroad company; and establishing the title of the City to the ground on which the railroad lies between the north line of Randolph street and the south line of Lake Park, subject to the perpetual right of user for right of way by the railroad company; and also establishing the title of the City to the water front and riparian rights between these points. This decision held that the grant of the bed of the lake by the Act of 1869 was to the Illinois Central Railroad Company as a public agency or trustee for the public purpose of harbor improvement, and was therefore subject to recall or repeal; except so far as acted on; that to the extent only that the railroad company had acted in filling in the lake in front of its own property, the Act of 1869 was irrepealable; but that except to that extent,

the repeal by the Act of 1873 was valid. This decision sustained the right of the railroad company to the piers and slips between the river and Randolph street, and between Twelfth and Sixteenth streets.

The Supreme Court of the United States affirmed the decree of the Circuit Court so far as the same was favorable to the State and City, and adverse to the railroad company, but held that the Circuit Court erred in sustaining and establishing the title and right of the railroad company to the piers and docks which it had constructed by filling in the lake in front of its own property between Randolph street and the river, and between Twelfth street and Sixteenth street. And the Court holds that the right of the railroad company to its three outer piers between Randolph street and the river, known as piers one, two and three, and its piers and docks between Twelfth street and Sixteenth street, depends upon the fact whether these structures extend into the lake beyond the point of practical navigability, having reference to the manner in which commerce in vessels is conducted on the lake; and the Circuit Court is directed to order an investigation to be made, as may enable it to determine whether these piers do so extend beyond the point of practical navigability, and if it be determined, upon such investigation, that these piers do not so extend beyond that point, then the title and possession of the railroad company to such piers shall be affirmed by the Court; but if it be determined that they, or any of them, do so extend beyond the point of practical navigability, then the Court shall direct such piers, to the extent ascertained, to be abated and removed, or that other proceedings relating thereto be taken on the application of the State as may be authorized by law.

This decision of the Supreme Court is based on the wholesome ground that as the navigable waters and their beds are held in trust for the people of the State, that they enjoy the navigation and fishery thereof, the legislature cannot divest itself of that trust or dispose of the beds of the waters in violation thereof; and that such grant to the railroad company was beyond legislative power.

This decision establishes the title of the City to the whole of the Lake park; and to the one and one-quarter miles of water front thereof, and the right and power of the City, as riparian owner, and in virtue of authority conferred by its charter to the proper benefit thereof, including the right to construct public landing places, wharves, docks and levees; and it confines the railroad company to its use of its right-of-way along such park; and it preserves the outer harbor of the City, and the navigable waters thereof, from encroachment by the railroad company, and requires their restoration where such encroachments have taken place.

A map attached shows the location and extent of the park and water front in question, the shore lines at different times, present shore lines, and the piers, docks and filling which have been erected in the waters of the lake by the Illinois Central Railroad Company.

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