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NINTH ANNUAL REPORT

OF THE

BOARD OF PUBLIC WORKS,

TO THE

COMMON COUNCIL

OF THE

CITY OF CHICAGO,

FOR THE

Municipal Fiscal Year ending March 31, 1870.

CHICAGO: PRINTED AT THE LAKESIDE PRESS. 1870.

BOARD OF PUBLIC WORKS.

MEMBERS OF THE BOARD.

JOHN MCARTHUR, COMMISSIONER AND PRESIDENT.

W. H. CARTER, COMMISSIONER AND TREASURER. REDMOND PRINDIVILLE, COMMISSIONER.

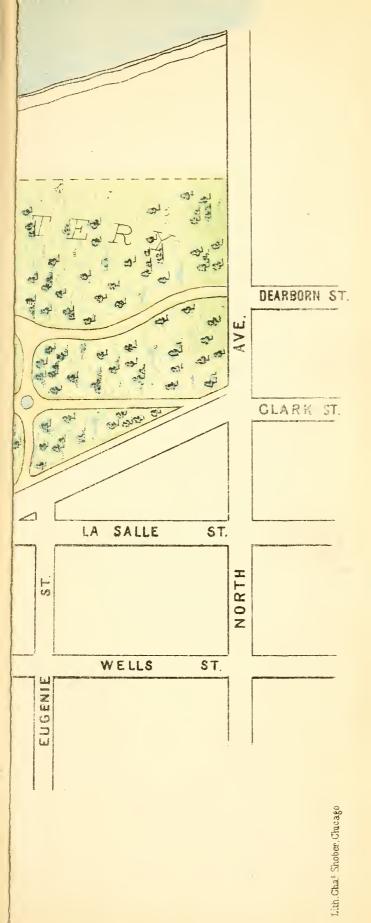
WILLIAM GOODING, EDWARD B. TALCOTT,

MEMBERS ACTING ONLY IN MATTERS PERTAINING TO CLEANSING CHI-CAGO RIVER.

OFFICERS.

A. W. TINKHAM, SECRETARY.

E. S. CHESBROUGH, CITY ENGINEER.



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COMMISSIONERS' REPORT.

OFFICE OF THE BOARD OF PUBLIC WORKS CHICAGO, OCT. 1ST, 1870.

To the Common Council of the City of Chicago :

The Board of Public Works submit herewith their annual report for the year ending March 31st, 1870.

ORGANIZATION.

Several changes have occurred in the Board during the year. The term of office of A. H. Burley, Esq., the Commissioner for the North Division, expired at the close of last year, on the confirmation by your honorable body of the appointment of his successor. Commissioner Prindiville succeeded Mr. Burley, entering upon the duties of his office, Jan. 1st, 1870.

One other change was caused by the election of Hon. R. B. Mason, as Mayor of the city, inducing his resignation as a member of the Board. E. B. Talcott, Esq., was appointed by the Governor of the State as his successor. Mr. Talcott acts only when the deepening of the Illinois and Michigan Canal, and kindred matters are involved.

In the statements which follow, the same order is pursued as in previous annual reports.

WATER WORKS.

CONDITION OF THE WORKS GENERALLY.

At no time during the year has the supply of water to the whole city been interrupted. An alarming accident occurred, however, on the 18th of August, by which the West Division was for about three days deprived of the larger portion of its supply. A vessel carelessly dragging anchor, broke the large main passing under the river at Chicago avenue. The accident, occurring in the heat of summer, and when with every facility it was hardly possible to furnish sufficient water to the more remote parts of the city, was the cause of much temporary inconvenience and discomfort. It however served the good end of originating a means of passing the river quite secure from any such risks and liabilities, and before the close of the year, mains were laid under the bed of the river, not only at Chicago avenue, but also at Division street, in substantial brick tunnels of six feet diameter, and at such depth as to be wholly secured from accidents. Hereafter it is not likely that any important main will be laid across the river, excepting through tunnels, where they will be safe from injury and accessible for repairs.

The fact is not without interest, that in the year 1861, the Board of Water Commissioners had under consideration the propriety of building a tunnel under the river for the principal main supplying the South Division, the Pine street and Wabash avenue main, and went so far as to prepare plans and receive bids for the work. The bids for its construction were low, and the parties responsible, but the limited knowledge and lack of experience then possessed as to such structures, deterred the Board, and the main was eventually laid in the ordinary way, a boiler-iron syphon deposited in a trench dredged in the bed of the river.

The very full discussion which followed the accident to the Chicago avenue main, particularly as to what should be done to afford a uniform supply of water to the more distant parts of the West Division, led to the consideration of the whole subject of improving and equalizing the supply to all parts of the city, and finally to the plan for additional pumping works in the southwest part of the city, to be supplied by a second lake tunnel adjacent to the present one, and a land tunnel as a conduit connecting the lake tunnels and pumping works on the lake shore and the proposed new works. This plan has since been adopted by your honorable body.

The supply to the city has been wholly drawn through the lake tunnel and from the inlet at the lake crib, and has always been pure and good. No city has water of better quality. The following table is of interest, as showing the relative temperatures of the air and of the water at the crib, at its entrance into the tunnel; for all months of the year. The observations of the temperature of the water were made in the well within the crib. The water is introduced to this well by conduits through the crib, some distance below the level of the lake.

		AIR			WATER.						
MONTHS.	High- est.	Mean.	Low- est.	High- est.	Mean.	Low- est.					
<i>April</i> , 1869	61°	44°	31°	44°	38°	33°					
May, "	69°	51°	41°	$\overline{51}^{\circ}$	46°	43°					
June, "	74°	63°	53°	60°	53°	50°					
July, "	80°	71°	62°	67°	63°	60°					
August, "	88°	75°	66°	72°	67°	64°					
Sept., "	76°	65°	53°	72°	63°	57°					
October, "	59°	45°	28°	57°	47°	40°					
Nov, "	50°	35°	28°	40°	36°	33°					
Dre, "	38°	30°	18°	33°	32°	32°					
Jan, 1870	40°	28°	10°	32°	32°	32°					
Feb., "	39°	30°	- 9°	-33°	32°	32°					
March, "	41°	33°	12°	33°	32°	32°					

TEMPERATURE—FAHRENHEIT.

The works are generally in good state, with this exception, that the experience of the year has only made more manifest the truth of last year's statement, that to insure a sufficient and uniform supply to the city, additional engines and larger mains should be got into use with all possible despatch.

NEW ENGINE HOUSE AND WATER TOWER.

Many minor details lacking on these buildings at the beginning of the year, were completed during its time, and final settlement made with the contractors for all work done.

NEW ENGINES.

It was not until somewhat late in the season that the order was obtained from your honorable body, to proceed with the erection of new engines at the pumping works. Plans for these engines had for some time previous been under consideration, but they were not fully made up and adopted until the Chief Engineer of the Pumping Works, D. C. Cregier, Esq., had, by orders of the Board, examined the principal pumping engines of the country. It was thought best, even at the sacrifice of considerable time, to profit by whatever of value could be obtained from the experience of other cities. At the date of this writing, however, the engines, with boilers, are in process of manufacture, at the Knap Fort Pitt Foundry Works, Pittsburgh, Pa., to be completed and set up ready for use by August 1st. 1871.

The engines are to be two vertical beam condensing-engines, set eight feet apart, coupled together by one shaft, with cranks and fly-wheel. The working capacity will be the delivery of 36,000,000 U. S. gallons in twenty-four hours, under a head of 150 feet.

In the meantime, the consumption of water has greatly increased. The average daily supply for the year ending March 31st, 1869, was 14,725,000 gallons. The same for the year ending March 31, 1870, amounted to 18,633,278 gallons, the percentage of increase of this year's pumping over that of the preceeding year being about $26\frac{1}{2}$ per cent.

THE BOARD OF PUBLIC WORKS.

WATER PIPES.

It was remarked in the last report that the length of pipes laid during that year, $(30\frac{1}{2} \text{ miles})$ exceeded that of any previous year. The amount for the present year is, however, still greater, summing up as follows :

In the South	Division,.	 38,495 feet.
" West	"	 97,404 "
" North	66 .	 31,605 "
Total		 167,504 feet,
		, , ,

or $31\frac{3824}{50}$ miles. Of this total, however, 2,436 feet was of pipes laid in place of smaller ones removed.

There are now laid in the city, of supply and distribution mains of all sizes, 239 miles and 4,763 feet.

The system of supply mains, making circuit through the three divisions of the city, to which attention was called last year, is being rapidly laid, and is already so far in use as to afford a marked benefit to many parts of the city.

The Board, as a rule, order water pipes laid where the revenue will be sufficient merely to pay the interest on the pipes as put down, which amounts at the present price to about fifteen cents per foot in length of pipes. When no more than this minimum revenue is obtained, such lengths of pipes must of course, for a while, be maintained at a loss. Experience, however, shows that the laying of the pipes is speedily followed by the erection of new buildings, and such streets soon become self-supporting. Although the amount laid last year was so great, the continued growth of the city, and the extension of its improvements is such, that the Board find it still very difficult to obtain enough pipes to satisfy the demand upon them, but will continue to put down all that can be obtained.

FIRE HYDRANTS.

New hydrants were erected during the year, in the three parts of the city, as follows:

In the	South	Divisio	n,				58
	West						
"	North	"					33
Tot	al,						224
	í 1	6.1	1 ,	1	• 11 •1	1 004	

Total number of hydrants erected in the city, 1,294.

TAPPING OF WATER PIPES.

The number of taps inserted in the pipes was very large. The number of each size is given below:

$\frac{1}{2}$	inch	,		•	•					•			• •	•		•	•				•	• •			•	•	•	•		•	 	•	27	08	,
5	"												•									• •				•		•					44	77	
3	66				•								• •									• •						•			 		1	67	-
1	"	• •	•	•	•	• •	•	•		•	•	•	• •	•	•	•	•	••	•	•	•	•	• •	••	•	•	•	•	• •	• •	•	•	1	29)
1	Total	ď	uı	i	ng)r	th	ne	J	ye	a	r.						•		•	• •				•	•	• •				•	•	$\overline{74}$	81	•

WATER RATE COLLECTIONS.

The gross receipts from all water rents and taxes collected during the year, amounted to \$476,968.24.

WATER METERS.

The number of establishments rated by water meters attached has quite largely increased during the year. Five hundred and thirty were in operation at its close, all being of the kind known as the "Worthington Meter." It speaks well for the durability of this meter, that those first purchased in 1860, are still in use and in good condition. The numbers on hand, of each size, are as stated below:

$\frac{5}{8}$	inch	Meters,			•	•	•	•		•			•													118
1	"	"			•	•		•				•				•	 			•						190
1등	"	66 66			•			•	•							•										85
																•										84
3	66	66																								49
4	"	"			•	•	•		•		•			•	•				•	•	•	• •		•	•	4
1	T 1	1		ſ	_			1																		*00

Total number of meters, 530

The total quantity of water pumped during the year was 6,801,146,720 gallons. The amount delivered to consumers through meters was 659,615,000 gallons, an amount equal to, or somewhat exceeding the supply to the whole city in 1855.

The revenue obtained from meter rates during the year was \$98,830, equaling the water tax collected from the entire city during the year 1857.

CONDENSED STATEMENT OF EXPENDITURES.

The following exhibits give a brief summary of the cost, during the year, of the additions to the Water Works and of their maintenance. It should be remarked that the amount of the item "repairs of pipes," etc., is largely increased by the substitution of larger pipes in the older parts of the city for those found too small; by the multiplication of the number of stop-cocks, so as to reduce the size of the districts, and to lessen, proportionately, the inconvenience from shutting off the water for repairs, etc.; by doubling up the number of hydrants in the older parts of the city; by the many and expensive changes made necessary by the great amount of street improvements in progress; and by the outlay caused by the accident to the Chicago Avenue main. The cost of the pipe laying is also made much larger than usual for the number of miles laid, for the reason that it includes a very large proportion of twenty-four inch and other supply mains, and also because the distributing pipes now laid have less of the smaller and more of the larger sizes than heretofore.

INTEREST, EXPENSES AND SURPLUS REVENUE.

Expenses at the Pumping Works,	\$81,185.06
Lake Tunnel,-keeper, use of tugs, etc.,	2,753.21
Repairs of Pipes, Hydrants, etc., and miscellaneous	
operating expenses,	$65,\!054.55$
Water Meters, repairs, depreciation, and operating	-
expenses,	3,595.72
Salaries of Board and officers, office rent and ex-	
penses and all salaries and expenses pertaining to	
the Water Office and the assessment and collec-	
tion of water rates,	$37,\!142.62$
Interest on Water Loan Bonds, including \$4,279.22	
transferred from discount account,	200,412.93
Total interest and operating expenses,	\$390,144.09
Income from Water Rates, as stated above,	\$476,968.24
Deduct interest and expenses,	390.144.09
Surplus Revenue,	\$ 86,824.15

COST OF ADDITIONS TO THE WORKS DURING THE YEAR.

313884 miles of pipes of all sizes, from 4 in. to 24	
inch, cost as laid, including tunnels under river	
for water mains,	\$514,652.54
New Engines, sundry miscellaneous expenses,	706.04
New Engine House, balances to contractors, etc	$10,\!272.37$
Water Works Tower, " "	4,095.57
New Inlet,	1,295,03
Total cost of additions during the year,	\$531,021.55

COST OF THE WORKS, APRIL 1ST, 1870.

Cost of the Water Works, including all expenditures on works in progress, March 31st, 1870, \$3,677,404.69.

THE BOARD OF PUBLIC WORKS.

MEANS BY WHICH THE WORKS HAVE BEEN PAID FOR.

Water Loan Bonds, 6 per cent., \$1,030,000.00,	
deducting for discount, \$38,358.88	\$991,641.12
Water Loan Bonds, 7 per cent	2,290,000.00
Balance from water rents	395,763.57

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\$3,677,404.69

SEWERAGE WORKS.

The extent of sewers laid last year largely exceeds that of any previous year, amounting to about twenty-six and one-half miles.

The most important structure of this year's work was the Douglas Place sewer, of about a mile in length, and extending from State street to the lake. This sewer will be the outlet of the sewerage of all that part of the city south of Thirty-first street, and between Clark street and Lake Michigan. Being of the largest size, six feet in diameter, and constructed through wet sand, much of the way with a depth of cutting of twenty feet, it is a matter of congratulation that the work was accomplished in a substantial and satisfactory manner, and without accident to the work itself or to adjacent buildings. The cost, about \$100,000, differs not largely from that of the same extent of the Lake tunnel for the Water Works.

In the appended report, giving in detail the sewerage work of the year, it is remarked that "the effect of the raising to grade and paving of the streets, in diminishing the cost of both the repairs and cleansing of the sewers, begins to be apparent. Notwithstanding the great increase in the extent of the sewers, the cost of repairs is one-third less than for the previous year, while the cleansing account is nearly one thousand dollars less."

LENGTH AND COST OF SEWERS LAID DURING THE YEAR.

South	Division,	$37,\!173$	feet		. costi	ng,	\$218,266.77
West		73,408			. "	0.	314,971.65
North	66	29,124			. "		120,902.84
Tota	al	139,705	feet or	26 miles,	and 2	2,425	
	feet, costi	ng					\$654,141.26
	· ·	0					

The total length of sewers laid March 31st, 1870, was $136\frac{3916}{5286}$ miles.

SEWER CLEANING.

Cost of cleaning Sewers and Catch Basins during	the
year	\$26,015.68

SEWER REPAIRS.

Cost of the repairs of Sewers and Catch Basins, and	
the renewal and repairs of man-hole covers during	
the year	\$7,527.16

PRIVATE DRAINS CONNECTING WITH PUBLIC SEWERS.

As remarked, last year, in order to insure the putting in of drains in advance of the laying of pavements, the Board have heretofore caused such drains to be laid and to be paid for from the Sewerage Fund. Subsequently assessments for such expenditures are levied, and such payments eventually refunded. The following enumeration of permits issued during the year for such drains, includes many, therefore, for which the permit charge is yet to be collected. The charge for permit for an ordinary sixinch connection is five dollars.

South I	Division	, permits	issued	830
West	"		"	
\mathbf{North}	"	"	"	
				<u> </u>
Total				
Total	receip	ts from se	werag	e permits \$12,639.27

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SEWERAGE EXPENSES, REPAIRS AND INTEREST.

Interest on sewerage loan bonds	\$153,634.63
Sewerage Sinking Fund, amount set aside, tax of 1868	
Salaries, office rent, and office and miscellaneous	ŕ
expenses	$18,\!464.07$
Repairs and cleaning of sewers as above	$33,\!542.84$
Total cost for the year	\$236,710.74

SEWERAGE LOAN BONDS.

Six per cent.	bonds ou	itstanding I	March 31st,	1870,	\$ 87,000.00
Seven "	"	"	"	"	2,538,000.00
The tail of any	h	anda matata	dine Moore	1. 01.4	
	0		nding Marc		·
1870.					\$2,625,000.00

Authority was given to issue but 175,000 more of bonds, so that the maximum of the sewerage debt, as determined by the recently adopted constitution, will be \$2,800,000. This debt will be annually lessened by the accumulations of the sinking fund. As the means heretofore for the construction of sewers have been wholly derived from the issue of bonds, it will be necessary to obtain legislation at the coming meeting of the General Assembly to provide for the cost of sewers in some way which shall not add to the city's indebtedness.

SEWERAGE SINKING FUND.

The condition of the fund April 1st, 1870, was as follows:

Balance in the hands of the City Treasurer\$70,369.73Mortgage ordered foreclosed, not yet collected5,922.10

Amount not yet applied to canceling bonds.....\$76,291.83

Forty bonds were canceled last year, making the total amount to March 31st, 1870, purchased and canceled, \$200,000.00.

DEEPENING OF THE ILLINOIS AND MICHIGAN CANAL.

The work of deepening the canal was prosecuted successfully throughout the year. During the winter the Rock Sections, numbers 45 to 64 inclusive, and extending about eight miles from Lockport this way, were completed. Strenuous efforts are made for as speedy a completion of the whole work as shall be practicable. It is the expectation of the Board that it will be finished by March 31st, A.D. 1871, at which time the contracts expire.

We give below a statement of the quantities of work done:

Earth excavations	568,663	cubic yards.
Rock "	81,387	66
Retaining wall,	444	66
Rip-rap wall,	5,535	"

The State of Illinois is now building a dam across the Illinois river and a lock at Henry; and the United States is dredging out some of the bars below Henry. With these works finished, and the deepened canal, there may be reasonably expected a large addition to the business and revenues of the canal.

The deepening of the canal will make the property adjacent to it and near Bridgeport, valuable as dock property. As the work has been done by the city, and as it is invested with a lien upon the canal and its revenues, for the re-imbursing of the cost of the deepening, the profits arising from this change in the character of the property should to a great extent accrue to the city. The Board would invite your consideration as to whether steps should not be taken to secure this benefit to the city. With a careful use of the revenues to be obtained from the canal property, the Board believe that the deepening will not only be of benefit to the city as a sanitary measure, but that it will eventually be repaid for its cost.

CLEANSING OF THE RIVER BY PUMPING INTO THE CANAL.

The pumps at Bridgeport were used at intervals during the summer, and until as late as November 15th, the time of closing the canal, and the river thus maintained in a sufficiently cleanly state. The cost of pumping for the season amounted to \$15,499.58.

CLEANSING OF THE NORTH BRANCH.

It was not anticipated, when the scheme of deepening the canal was adopted, that its effects in changing the water in the river would be felt materially in the North Branch.

It is hardly necessary to say that the work of flushing and cleansing is needed quite as much there as in the other parts of the river. It should, however, be stated that its generally uncleanly state is due but to a small extent to the amount of sewage discharged into it, but mainly to the large amount of refuse and waste allowed to find its way into it from the distilleries and other large manufacturing establishments along its banks. Few sewers have their outlets in the North Branch, and the discharge from them is not large.

The early completion of the canal, it is believed, will soon suffice to maintain the main river and South Branch in good condition. The Board are of the opinion that it is not wise or safe to further postpone the entering upon some efficient plan for keeping clean the North Branch. Their attention, for a considerable time, has been given to the consideration of what means seemed most likely to accomplish the object. From the remark made above, it would seem evident that whatever plan be adopted, every effort should be made to keep out of the river the wash and waste unlawfully allowed to enter it from the establishments referred to, so that the city should be required to remove only the effects of its own sewage. For flushing-out the river, but one of the many schemes proposed seems to them to promise to be effectual and worthy of adoption—that is, the construction

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of a canal, open or covered, between the lake and the North Branch, through which the water shall be forced by mechanical means, either into the river or lake, as shall at the time be necessary. The location of this canal, and the details of its construction, the Board do not undertake to present in this report.

For its more thorough investigation, the Board respectfully invite the attention of your honorable body to the remarks of the City Engineer on this subject, as embodied in his appended report.

CHICAGO HARBOR.

The expenditures by the city for several years have been confined to the maintenance of the channel and harbor within the bar. Much anxiety was caused in the earlier part of the year from the lack of water at numerous places in the channel of the river, so much so that the Board deemed it necessary to report specially the state of facts to your honorable body, and to urge that immediate appropriation be made for dredging and deepening as should be found necessary.

The work of dredging was, however, prosecuted continuously, and no serious interruption occurred to the navigation of the harbor. The amount thus expended was \$56,035.73.

WASHINGTON AND LA SALLE STREET TUNNELS.

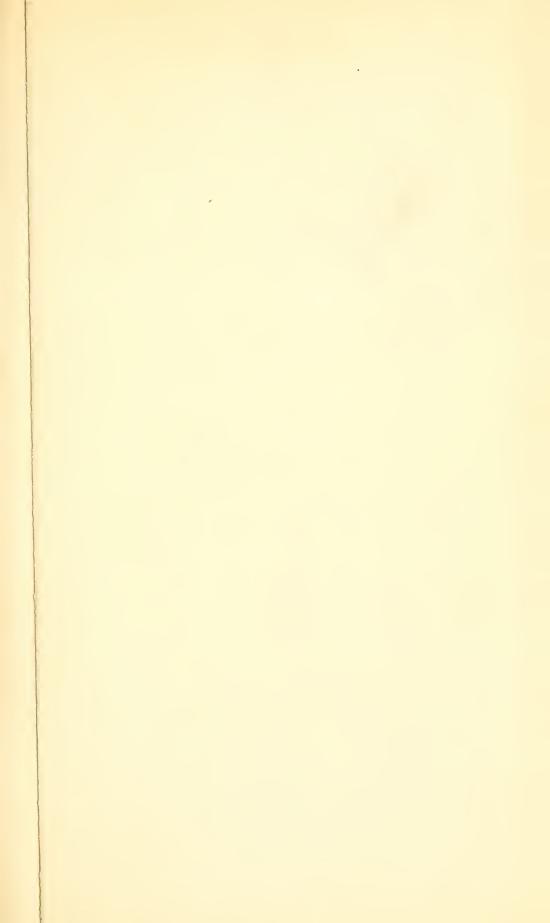
At the beginning of the year now reported on, Washington Street Tunnel had become a gratifying success. The work was substantially completed, and save some annoyance from a troublesome leak which manifested itself in the carriage-way, under the river, was found to fully answer all expectations concerning it.

It then became a matter of consideration as to where the next tunnel should be made, and, under instructions from the Council, the Board submitted plans for one under the main river at La Salle street, and one under the South Branch at Adams street. The pressing necessities for a connection between the North and South Divisions, led to the adoption of La Salle street as the locality for the work. Immediately with the reception of your orders for its construction, the Board proceeded to prepare plans and specifications for the work in full, and soon after to invite proposals for its execution. On the 20th of October the contract was awarded to Mr. Rob't E. Moss, at a price estimated on the quantities and prices of the various kinds of work to be done, of \$427,044.46. The lateness of the season when the contract was awarded was unfavorable to making great progress during the winter, especially on the masonry of the tunnel, but the work was vigorously and successfully prosecuted by the contractor from the start. On the 5th of February, the coffer-dam having been previously finished and pumped out, and sufficient progress made in the excavation, the masonry of the tunnel was commenced in the bed

of the river, and has since been carried forward without interruption. By the terms of the contract the work is to be finished by July 1st, 1871, and the progress made warrants the expectation of its being completed in time.

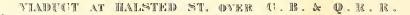
Washington Street Tunnel has been in use throughout the year. The leak referred to has been remedied. The passenger way is perfectly dry. The carriage way is very nearly so, and the trouble from water, excepting what pertains to the drainage, is limited to an occasional drop from the arch overhead, immediately under the river.

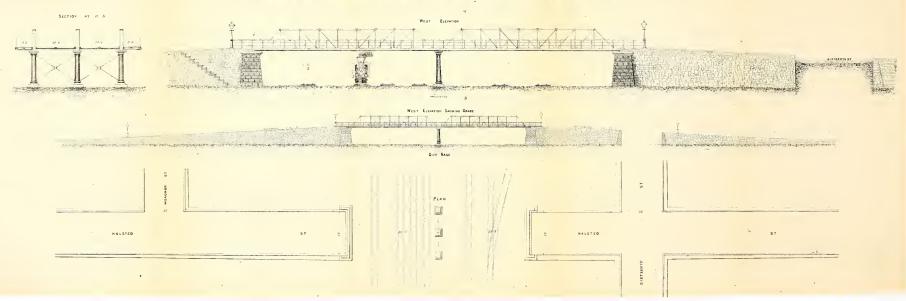
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STREET WORK.

'there were in the city, at the close of the year, that is, on March 31st, 1870, thirty-seven miles of streets paved with wooden block pavements, and two and one-fourth miles paved with boulder, or block stone pavements. The statement does not include the graveled or macadamized streets. These pavements were very largely the work of the past three years. While the time is very brief since the condition of the streets of Chicago was the subject of constant complaint, there are to-day few cities in our land presenting more drives of miles in length of smoothly paved streets.

The Board may also, with propriety, call attention to the cleanly condition in which the paved streets are generally to be found. The work of cleaning, as remarked last year, is in the hands of Mr. Levi P. Wright, as contractor for the three years ending November 19th, 1871.

As was remarked above, the pavements laid are mostly of the various kinds termed wooden block pavements. At present, no pavement is found to give so general satisfaction, and while its term of wear is comparatively limited, not extending beyond eight or ten years, no pavement has yet been found of sufficiently well established superiority, as to excellence and durability, to lead to its substitution for the one in general use. At the same time, it is the aim of the Board to avail themselves of any opportunity promising an improvement, whether it be by a modification of the wooden pavement, or by the use of one of other materials. The principal experiment of this sort, during the year, was the application to some pavements of the process for preserving the wood from decay, known as that of the North American Wood Preserving Company, with the view of promoting its durability. South Park avenue, between Twenty-second and Twenty-ninth streets, a distance of about three-fourths of a mile, was paved with the use of this process, all of the wood composing the pavement being subjected to its application. The process, as represented by the parties applying it, consists in first expelling the sap and various vegetable fluids from the pores of the wood by vaporization, and then in impregnating the wood with solutions of sulphate of iron (copperas) and of lime, forming within the pores sulphate of lime and oxide of iron. The pavement was laid in the fall of 1869, and of course sufficient time has not elapsed to test its durability.

Several small pieces of one other pavement have been put down on trial during the present season—the bituminous or asphaltic rock pavement—a specimen of which may be seen at the intersection of Clark and Monroe streets. This pavement has been laid but a few months, but now promises well.

Noticeable among the important works under this general head, undertaken by the Board during the year, are the planning and construction, more or less entirely, of several important viaducts, by which the street is carried at an elevation above the railroads and their trains. The viaducts at West Indiana and W. Adams sts. were constructed this year. The most interesting structure of this sort, however, accomplished during this time, is the Halsted street viaduct, crossing the railway tracks near Sixteenth street. It is of interest as being the first of its kind. In other instances, the viaduct is near the river, and is connected with a pivot bridge across the river. The street having attained the elevation necessary for the bridge is simply continued at about the same elevation above the railway tracks, and then descends to the ordinary grade. The Halsted street viaduct is wholly for the purpose of elevating the street, so that the railway trains may pass beneath it. The railway tracks being kept as low down as possible, the paved street, with its sloping retaining walls, rises to the necessary height on the one side, crosses above the track by an iron truss bridge, and then descends to ordinary grade on the other side.

Railway tracks are laid in the city across some of its finest streets and avenues, and on even grade with those streets, and trains at frequent intervals are passing and repassing where the throng of vehicles and pedestrians is greatest. The dangers from collisions at these crossings are such as to excite constant apprehension, and the interruptions of travel are serious and annoying. It is evident that some means must speedily be taken to remedy these evils. For these reasons the Halsted street viaduct is of value to the public generally, as showing how far such a structure is an effectual cure to the evils referred to, and to what extent it is objectionable. Its cost was borne by the Chicago, Burlington & Quincy Railroad Company, excepting that the abutting property was assessed the same amount as if the street had been walled, filled and paved in the usual manner.

A profile view of the Halsted street viaduct accompanies this report.

The cost of new street improvements being mainly paid for by special assessments on property contiguous to such streets, the most complete view of such work — including, however, all improvements paid for in the same manner — is given in the report of the special assessment department as presented herewith. By this report it will be seen that the general fund, or the city at large, bore the cost of the various improvements therein specified, to the amount of \$397,002.06, while there was assessed on the property specially benefited, the sum of \$2,\$36,\$52.4\$.

SPECIAL ASSESSMENT DEPARTMENT.

Снисадо, April 1, 1870.

MR. A. W. TINKHAM, Secretary Board of Public Works.

SIR: Accompanying this, please find a tabular statement of the street improvements and their estimated cost, for which assessments have been made during the year ending April 1st, 1870, to which is appended a summary, showing, among other things, the cost of the various improvements in each of the Divisions of the city, the total amount for which special assessments have been made each year for the last nine years, the number of miles of the different kinds of street improvements, and an alphabetical list of all the streets in the city and their length.

STATEMENT OF ASSESSMENTS FOR STREET OPENINGS AND WIDENINGS.

		<u></u>		
No. of War'ant	NAME OF STREET.	FROM	TO	Amount of Assessment.
605	Holt st	Bradley st	W. North av	\$3,157 08
606	N. Leavitt st	W. North av	Milwaukee av	1,023 74
607	N.Leavitt st. thro'B	14 Ass'rs div. NE1/4	E1% NW 1/1, sec. 6.	100 00
		Northern terminus		1,700 00
		W. Harrison st		4,993 03
631	N. Hovne st.	W. Division st	Milwaukee av	2,095 00
	Fifteenth st	Western terminus		5,422 95
	Street run'g N. & S.		Wells and Franklin	11.274 09
	Mitchell st.	Waller st.	Halsted st	39,820 50
		blkg.11, 12, 13, Ass'rs	div. of unsubd. Inds	413 71
	W. 12th&S.W'n av		present eity limits.	27,442 86
	Thirty-second st			15,826 84
	Hurlbut st			17.325 90
		present terminus		54,350 56
1061	Michigan av	Twenty-second st.	Thirty-second st.,	75,533 08
1063	Seelev st.	W. Van Buren st	W. Tyler st	4,250 00
1064	Goethe st	N. Clark st	N. State st	29,150 00
		Madison st		124,312 63
		Road to Cottage		·
	Wahpanseh and	Egan avs		7,633 70
1069	Reuben st	W. Tyler st	W. Twenty-sec. st.	34,505 44
1071	Wentworth av	Twenty sixth st	Twenty-seventh st.	
Total\$467,521 11				
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STATEMENT OF ASSESSMENTS FOR ALLEY OPENINGS AND WIDENINGS.

No. of Warr'nt		Amount of Assessment	
593	Opening alley from Goethe to Division st., and bet. La		
	Salle and N. Clark st	\$5,626	00
604	Opening alley through bl'k 44, Sch. Sec., Van Buren to		-
630	Tyler st, and bet. Clinton and Jefferson sts Opening alley through bl'k 54, Sch. Sec., bet. Canal and	2,580	1.1
000	Clinton sts	819	83
665	Opening alley through bl'k 2, McGrath's add, Robey to	010	00
	Hoyne st., and between Taylor and Harrison sts	578	95
667	Opening alley through W. 1/2 bl'k 97, W. 1/2, sec. 27	852	18
	Widening alley through bl'ks 135 and 136 Sch Sec.	2,648	07
193	Opening alley running E. and W, in N. part of bl'k 47,		40
1 007	Sec. 7, T. 39, R. 14.	1,294	
1,007	Widening and opening alley in bl'k 4, Original Town, Opening alley through bl'k 16, Johnston, Roberts and	5,916	84
1,010	Storr's add	4,130	00
1,073	Opening alley from Grant to Schiller st., bet. N. Clark	т,100	vu
	and N. La Salle sts	4,821	61
1,076	Opening alley running E. and W. through W. part of bl'k	, i	
	29, Johnston, Roberts and Storr's add	291	54
	Total	A00 ×00	

STATEMENT OF ASSESSMENTS FOR WOODEN BLOCK PAVEMENT.

'No. of Warr'nt	NAME OF STREET.	FROM.	TO.	Amount of Assessment.
602	Indiana av	Twenty-second st	Twenty-ninth st	47,772 96
	W. Van Buren st			11.453 60
628	Clybourn av	Division st	North av	73,269 96
642	W. Van Buren st	Halsted st	Loomis st	43,260 27
659	Archer av	State st	Canal or Slip	80,278 14
666	Washington st	State st	Michigan av	1,612 16
	Harrison st	State st		12,217 99
670	Clinton st	W. Lake st		22,086 04
672	Wabash av			5,501 96
673	Central av		140 feet S. of Lake.	,584 29
674	W. Twelfth st	Halsted st	685 feet E. of Beach.	56,935 40
678	Jackson st	State st.	Market st	16,237 57
679	W. Madison st	Centre av	Robey st	74,905 71
	W. Lake st	Reuben st	Western av	102,953 12
	Desplaines st	W. Van Buren st		19,140 85
719	W. Lake st.	E. line B. 29, O. T.		10.071 89
	S. Park av	Twenty-second st	Twenty-ninth st	43,646 33
	Griswold st	Van Buren st	Polk st	3,037 00
722	Dearborn st	Monroe st	Jackson st	28,484 31
	N. Halsted st	W. Lake st	W. Indiana st	33,313 27
	N. LaSalle st	Chicago av	Division st	29,047 08
725	Huron st	N. Wells st	Townseud st	18,519 47
727	Clinton st	W. Van Buren		21,289 97
728	Chicago av	N. Clark to E. line.		24,028 71
749	Archer av.	Canal or Shp	Halsted st.	32,044 29
114	Griswold st	Jackson st	Van Buren st	7,287 60
		N. Clark st	Kingsbury st	50,724 25
777		Jackson st		8,026 78
1779		Randolph st	Washington st	3,009 76
	N. Market st		Chicago av	42,346 96
	Aberdeen st	W. Madison st	W. Harrison st	30,401 57
780	Fourteenth st	Michigan av	State st.	7,200 01
	North av	N. Wells st	N. Br'ch Chi. riv.	79 043 64
	Canal st	W. Sixteenth st	W. Eighteenth st	17,884 22
	N. Wells st	Division st		75,755 74
	Washington st	State st	W Harrison at	22,533 18 20,272 01
	Jefferson st	W. Van Buren st.	W. Harrison st	
	N. Sangamon st W. Polk st	Fulton st	Milwaukee av	41,125 54 43,428 90
		Halsted st	Elsworth st	45,420 50 42,863 21
0/9	Canalport av Union st	Canal st W. Madison st		43,003 21 47,018 00
	Indiana st			27,536 25
			Pine st	93,132 77
054	Quincy at	State st	Clark st	11,872 07
004	guincy stores.	Duale St		11,012 01

Forward, \$1,483,154 80

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STATEMENT	OF	ASSESSMEN	ITS	FOR	WOODEN	BLOCK
	\mathbf{P}	AVEMENT.	(Co	NTINU	ED.)	

No. of Warrnt.	NAME OF STREET.	FROM.	TO	Amount o Assessmen	-
			Forward	\$1,483,154	80
955	Chicago av	N. Clark st	N. Br'ch Chi. riv	5,855	93
956	Halsted st	Harrison st	C.B.&Q.R. cross'ng	428	39
			Harrison st	14,068	99
979	Clark st	Chicago river	Chicago av	8,446	44
			S. Br'ch Chi, riv	12,726	45
			Leavitt st	44,602	20
			200 ft.W. of Grove.	60 940	67
983	W. Madison	Robey st	Western av	32,452	19
984	W. Indiana	Rucker st	Noble st	18,780	43
985	W. Harrison st	Canal st	Halsted st	33,675	43
			Taylor st	27,963	20
1062	Calumet av	Twenty-first st	Cottage Grove av	24,357	95
			N. State st	25,604	28
1074	Monroe st	State st	Clark st	6,977	12
1077	Canal st	WLake st	W. Madison st	443	05
	Total			.\$1,800,477	52

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STATEMENT OF ASSESSMENTS FOR MISCELLANEOUS STREET AND ALLEY IMPROVEMENTS.

No. of Warr'nt	NAME OF STREET.	Amount of Assessments.
671	Curbing and filling Illinois st. from N Wells st. to Kings.	
	bury st	\$16,273 15
	Macadamizing Blue Island ave. from W. 12th to W. 22d st.	8,975 98
677	Straightening alley in bl'k 5, H. O. Stone's sub div. of	
PO 2	Astor's addition.	426 48
707	Grading & planking Throop st. fm 22d st. to Blue Island av.	7,746 64
109	Curbing, filling and planking alley in bl'k 15, Kinzie's	1,030 37
710	addition to Chicago Grading Ridgeville rd. from W. North av. to Bloomingdale	1,000 01
•10	road	171 83
711	Grading Commercial st. from W. North av. to Blooming-	
	dale road	171 83
712	Filling and planking alley in bl'k 53, Sch. Sec. add. to	
194.0	Chicago Grading Wabansia av. from Hewes st. to N. Wood st	1,485 89
713	Grading Wabansia av. Irom Hewes st. to N. Wood st	209 26
720	Grading Edgar st. from Wabansia av. to Bloomingdale rd. Curbing & filling Wesson st. fm. Chicago av. to W. Oak st.	$\begin{array}{r} 128 \ 10 \\ 4,949 \ 77 \end{array}$
731	Curbing, tilling and grading Division st. from Clybourn	4,040 11
.01	av. to Division street bridge	7,367 81
776	Curbing and grading Clybourn place from Clybourn av.	
	to Elston road	3,528-38
778	Curbing and filling W. Monroe st. from Canal st. to Hal-	
17 09	sted st.	21,511 20
783	Filling, grading and planking alley running E. and W.	9.015 69
784	through S. ½ of bl'k 51, sec. 7, T. 39, R. 14 Curbing, filling and planking alley running N. and S.	2,015 62
101	through bl'k 22, frac. sec. 15 add	861 97
785	Grading and planking alley in bl'k 4, Union Park add	1,100 35
787	Curbing & filling W. Jackson st. fm. Canal st. to Halsted st.	19,353 14
788	Curbing, filling and planking alley from Chicago av. to	
P 0 0	W. White st. between Sedgwick and Townsend sts	4,745 37
789	Curbing, grading and planking alley running N. and S.	000.04
700	through bl'k 14, frac. sec. 15 addition	233 34
100	Filling, curbing and planking Calhoun place in bl'k 53, Original Town	409 28
817	Curbing and filling Clark st. from 12th st. to 22d st.	69,150 29
	Curbing, filling and planking Marble place from State st.	ŕ
	to Clark st	2,241 79
841	Grading and planking alley running N. and S. through	
0.40	bl'k 12, Duncan's add.	986 87
842	Re-planking Couch place, in bl'k 34, Original Town	472 22
950 936	Macadamizing W. 12th st. fm. Reuben st. to S. Western av. Filling Centre av. from Mitchell st. to Lumber st	$ \begin{array}{r} 13,713 \\ 2,871 \\ 66 \end{array} $
	Curbing, filling and planking alley in bl'k 25, Sch. Sec.	<i>»</i> ,011 00
	add. to Chicago	2,233 19
938	Curbing and filling 4th av. from Taylor st. to 12th st	9,313 28
939	Curbing and filling W. Division st. from Milwaukee av.	
	to N. branch of Chicago river	28,739 78
	Total	\$232 418 50
	LUtal	\$202,±10 09

STATEMENT OF ASSESSMENTS FOR MISCELLANEOUS STREET AND ALLEY IMPROVEMENTS. (Continued.)

No. of Warr'nt	NAME OF STREEF,	Amount of Assessmen	-
	Forward	\$232,418	59
940	Grading and macadamizing N. Halsted st. from N. branch of Chicago river to Division st	6,564	85
941	Curbing, filling and macadamizing Larrabee st. from Chi- cago av. to Clybourn av		
944	Grading and graveling N. Halsted st. from Division st. to	9,382	
945	North avGrading and planking alley running N. and S. through		
951	bl'k 8, frac. sec. 15 Grading and planking N. Branch st. from Halsted to		
953	Division st Curbing, filling and planking alleys in bl'k 45, S. E. ½	8,940	
958	sec. 21, T. 39, R. 14, Grading and cindering Noble st from Milwaukee av. to		85
	W. Clybourn place Curbing, filling and planking Calhoun place, bl'k 55,	1,639	63
1.066	Original Town Curbing, grading and cindering Clybourn av. from North	304	80
	av. to Clybourn place	5,518	02
1,075	Curbing, grading and planking alley running N. and S. through bl'k. 5, frac. sec. 15 add	1,936	53
	Total	\$296,955	60

STATEMENT OF ASSESSMENTS FOR THE ERECTION OF LAMP POSTS.

No, of Warrnt.	No-posts	NAME OF STREET.	FROM	то	Amount of Assessment.
595	12	Blue Island av	W. Harrison st	W. 12th st	\$ 499 50
596	$\frac{1}{22}$	W. Harrison st	Halsted st	Aberdeen st	747 00
597	$\tilde{20}$		Morgan st.	N. Ada	684 00
598	$[\tilde{9}]$	Clinton st	W. Madison st	W. Jackson st	324 00
599	8	W. Adams st	Reuben st	Loomis st.	288 00
600	$\frac{1}{2}$	W. Jackson st	Sangamon st	Morgan st	72 00
601	$\tilde{21}$			Blue Island av	756 00
632	2	Jefferson st	De Koven st	W Taylor st	72 00
633			Jackson st	Van Buren st	180 00
634		Jackson st	State st	Market st	504 00
635		Reuben st	Washington av	Fulton st	180 00
636	3	Throop st	W. Adams st	W. Monroe st	108 00
637	3	Laflin st	W. Adams st	W. Monroe st	108 00
638	$ \breve{6} $		Wood st.	N. Lincoln st	216 00
639	13		Hurlbut st	N. Franklin st	463 50
640	$\hat{6}$		Paulina st	Page st	216 00
641	27		Mo gan st	Noble st	904 50
751	$\tilde{5}$		Larrabee st	Hurlbut st	180 00
752	-	Pine st.	Michigan st	Chicago av	108 00
753		Canal st	18th st	Harrison st	1,048 95
754	1 1	Franklin st	Madison st	Randolph st	191 25
755		Belden av	Hurlbut st	N Clark st	180 00
756	$\overline{5}$		Depot st	Fulton st.	180 00
757		W. 12th st	Centre av	125 ft. Wof Throop	324 00
758		Townsend st	Oak st	Division st	360 00
759	1 . 1	Reuben st	W. Lake st	Fulton st	180 00
760	8	Lake av	Douglas place	Wahpanseh av	288 00
761	$\frac{1}{2}$	North av	N. La Salle st	N. Clark st	72 00
762	$\tilde{8}$		W. Kinzie st	W. Indiana st	288 00
763	~	Hurlbut st	Grant place	Belden av	144 00
764	8		Hobbie st	Larrabee st	288 00
765	7	Larrabee st	Crosby st	Chicago av	252 00
766	6	Wendell st	Sedgwick st	N. Franklin st	216 00
795	3		Wabash av	State st	108 00
798	3		N. Franklin st	N. Clark st	108 00
809	4		W. Madison st	W. Lake st	144 00
810		L Salle st	North av	N. Clark st	252 00
814		Prairie av		33rd st	$425 \ 70$
815		Indiana av		33rd st	144 00
820	14	Kankakee av	29th st		541 80
821		Madison st			108 00
823		13th st	Michigan av		108 00
833		N Wells st	North av	Lincoln st	495 00
834		Wahpanseh av			180 20
837		Lincoln av	N. Franklin st		324 00
857		Franklin st			558 00
	- 1		,	_	

STATEMENT OF ASSESSMENTS FOR THE ERECTION OF LAMP POSTS. (Continued.)

No. of Wari 'nt	No-posts	NAME OF STREET.	FROM	TO	Amount of Assessment.
				Forward	\$14.119 20
865	6	W. Lake st	Oakley st	Western av	234 00
866		W. Van Buren st	Aberdeen st	Throop st	385 00
867		W. 22nd st		Centre av	429 00
868	9	W. Indiana	N. Desplaines st	N. Halsted st	351 00
869		Canalport av	Halsted st	Canal st	740 00
870	3	South-western av.		W. Washington st	117 00
871	4	W. Van Buren st	Canal st	Chicago river	156 00
872	1	Sheldon st	W. Madison	W. Washington st	39 00
873	17	Fulton st		Robey st	273 00
874	$\overline{5}$	Luke st	John st	Halsted st	195 00
875	2	Jefferson st	W. 12th st	Dussold st	78 00
876	õ	Walnut st	Wood st	Lincoln st	195 00
877	8	W. Monroe st	Leavitt st	Hoyne st	312 00
878	4	Carroll st	Hulsted st	Union st	156 00
879		Elm st		La Salle st	38 70
880		W. Van Buren st.		Halsted st	154 80
882		Dearborn st		Jackson st	285 50
883		Vincennes av	Douglas place	800ft.S.of Wahp'h	780 00
884		Egan av	Lake av	Ellis av	195 00
885	11	Ellis av	wanpansen av	Egan av	429 00
886	91	29th st	Grove st	Indiana av	273 00
887	DT Q	22nd st 31st st	S Durk or	State st Cottage Grove av.	$1,129 \ 00 \\ 312 \ 00$
$\frac{888}{889}$	5	W. Madison st	Western av:		195 00
890	95	W. Division st		Oakley st	850 00
891	$\tilde{\gamma}$	Newberry st	W. 12th st	Maxwell st	270 90
892	9	Sherman st	W Van Buren st	Jackson st	78 00
893	4	29th st	S Park av	Cottage Grove av	156 00
894	3	Aberdeen st		W. Jackson st	117 00
895	3	26th st	Wabash av		117 00
896		25th st	Michigan av		39 00
897	13	Sherman st	Taylor st	Harrison st	478 00
898	29	W. Chicago av	Noble st		974 00
899	1	W. Taylor st	109 fi.E.of Canal		39 00
900	7	Lytle st	W. 12th st	W. Taylor	312 00
901		De Koven st	109 ft. W of Canal		39 00
902	15	Warren av	Western av	Leavitt st	540 00
903	1	W. Lake st	N.W.cor. Peck st.		39 00
904		Hoyne st			509 00
905	15	Sangamon st	Milwaukee av	Carroll st	540 00
906	0	Hoyne st	W. Madison st	W. Monroe st	195 00
907		W. Washington st			332 00
908	13	31st st.	Indiana av	S. Park av.	464 40
909	3	W. Jackson st	Keuben st		117 00
$\begin{array}{c} 910\\911\end{array}$		Winchester av		W. Jackson st	385 00
$\frac{911}{912}$	0	Wahpanseh av	State st		312 00
913 913	16	Polk st N. State st	Oute st	Chicago river	$ 320 00 \\ 496 00 $
$913 \\ 914$	10	Lake av.	Oakwood av	Pier et	490 00 390 00
014	10.	LIGHTAG G V · · · · · · · · · ·	oakwood av	(1 ICI St	000 00

Amount forward......\$29,680 50

STATEMENT OF ASSESSMENTS FOR THE ERECTION OF LAMP POSTS. (Continued.)

No. of Warr'nt	No.posts	NAME OF STREET.	FROM	ŤŎ	Amount of Assessment.			
				Formund	@20.000 F0			
015	1	Wabach an	29. J. at	Forward	\$29,680 50			
915	4	Wabash av	33rd st	32nd st	156 00			
916		Archer av	Halsted st	State st	1,098 50			
917		North av.	Clybourn av	Chicago river	726 00			
918	7	14th st	Clark st	State st.	297 99			
919	31		Grover st	N.Br'ch Chi. riv.	1,036 00			
920	17	Jefferson st	W. Van Buren st.		273 00			
921		Union st	W. Madison st	Hubbard st	614 50			
922		W. Adams st	Winchester av	Robey st	156 00			
923	5	33rd st		Lake Shore av	195 00			
924	13	Milwaukee av	Noble st	Division st	478 00			
925		Langley st	Wahpanseh av	800 ft. S. Wahpan.	273 00			
926	3	31st st	Wabash av	State st	117 00			
927	4	Elm st	N. Clark st	N. State st	154 80			
928	- 3	30th st	Wabash av	State st	117 00			
929	16	Ontario st	Kingsbury st	N. Wells st	$571 \ 00$			
930	4	29th st	Calumet av	S. Park av	$154 \ 80$			
931	3	31st st	Cottage Grove av.	Cottage place	117 00			
932	2	Washington st	Franklin st	La Salle st	$103 \ 00$			
933		25th st	Wabash av	State st	144 00			
934	6	Cass st	Chicago av	Hinsdale st	234 00			
946		La Fayette place	Clark st	Dearborn st	77 40			
947	1		N. Clark st	N. Dearborn st	49 95			
948	2	24th st		Michigan av	78 00			
949	2	Chicago av		Pine st.	77 40			
950		Dearborn place		Randolph st	39 00			
959		28th st		Wabash av	39 00			
960	2	W. Jackson st	Cliaton st	Canal st	78 00			
961		12th st		State st	39 00			
962		Prairie av		24th st	78 00			
963		Quincy st	Clark st	Dearborn st	78 00			
964	1	Öak st	N. Clark st	N. Dearborn st	38 70			
965	2	Griswold st	Jackson st	Van Buren st	78 00			
966	1 .	Calumet av	24th st	Cottage Grove av	39 00			
967	2	26th st	Michigan av.		78 00			
968	9	S. Park av	24th st	Cottage Grove av	351 00			
969	1	Cottage Grove av.			39 00			
970	1.	23rd st.			39 00			
971		Huron st		Townsend st	416 00			
972		W.Polk st		Chicago river	447 00			
973	$\tilde{9}$				351 00			
974		N. Halsted st	W Chicago av	Chicago river	195 00			
975	5	Cottage place	31st st	650 ft. S. thereof.	195 00 195 00			
976	$\begin{vmatrix} 0\\9 \end{vmatrix}$		31st st	29th st	351 00			
977		W. Polk st	Halsted st.	Desplanes st	385 00			
	1-0			1. obbininoo pol	000 00			
		Total			@ 40 999 =4			

Total.....\$40,333 54

STATEMENT OF ASSESSMENTS FOR LAYING PRIVATE DRAINS.

No. of	NAME OF STREET.	FROM	то	Amount of
Warr'nt	man or Similar.	1100114	10	Assessment.
799		Division st		\$2,790 16
801	Randolph st	Michigan av	Chicago river	809 60
802	Eighteenth st	Wabash av	Chicago river	699 79
806	Madison st	Market st	State st	513 19
826	Polk st	State st	Chicago river	271 68
827	Fourteenth st	State st	Wabash av	171 00
828	N. Dearborn st	Schiller st	North av	971 02
829	N. Wells st	Kinzie st		$728 \ 10$
831	Prairie av	Cottage Grove av	Twenty ninth st	1,745 00
886	Michigan av	Twenty-second st	Twenty-ninth st	1,827 31
838	Calumet av	Twenty-second st	Cottage Grove av	1,120 15
852		Archer av		526 80
854	N. Dearborn st	Chicago river	North av	2,966 72
855	Twelfth st	State st	Chicago river	419 60
856	Indiana av	Twenty-second st	Twenty ninth st	1,043 50
858	Wabash av	Twenty-second st	Twenty-ninth st	2,359 29
1,043	Clinton st	. W. Lake st	W. Kinzie st	890 68
1,044	Jefferson st	W. Randolph st	W. Harrison st	969-30
1 ,046	W. Washington st	. Gr. en st	Elizabeth st	1,571 52
1,047		Halsted st		2,878 96
1,048		W. Twelfth st		955 52
1,049	Canal st	W. Madison st	W. Twelfth st	3,956 24
1,050		. State st		$175 \ 15$
1,051		. W. Van Buren st		620 67
1,052	W. Kinzie st	Halsted st	Chicago river	203 56
1,053	W. Lake st	Halsted st	Reuben st	5,436 40
1,054	Jackson st	. Michigan av	Chicago river	614 75
1,055	Archer av	. Stewart av	Ogden slip	493 28
1,056	Clinton st	. W. Madison st	W. Van Buren st	908 72
1,057	Halsted st	. C. B. & Q R.R. cr'g	Chicago river	3,261 60
1,058	W. Washington st	Chicago river	Green st	577 00
1,059	Harrison st	. State st	Wells st	
1,060		. Chicago river		
,		_		
	Total			.\$46,966 85

STATEMENT OF ASSESSMENTS FOR LAYING WATER SERVICE PIPES.

No. of		TROM	1	Amount of
Warr'nt	NAME OF STREET.	FROM	то	Assessment.
698	Huron st	N. Clark st	N. State st	\$271 28
699	Ohio st	St. Clair st	Clark st	777 31
700	Sangamon st	W. Van Buren st	Fulton st.	2,161 31
701	N. Wells st	Kinzie st	Chicago av	1,543 96
702	Division st	N. Clark st	Clybourn av	668 25
703	W. Kinzie st	Canal st	Halsted st	$212 \ 70$
704	Canal st	W. Twelfth st	W. Sixteenth st	1,489 98
705	Harmon court	State st	Michigan av	268 82
706	Pin∈ st	Michigan st	Chicago av	708 57
708	N. Clark st	Division st	North av	1,585 38
716	Clinton st	W. Van Buren st	W. Madison st	1,958 25
717	Washington st	Market st	Franklin st	108 19
718	Monroe st	Clark st	Market st	601 69
796	Madison st	State st	Chicago river	1,644 33
797	Wabash av	Twenty-second st	Twenty-ninth st	3,336 54
803	Eighteenth st	Wabash av	Chicago river	1,102 32
804	N. Wells st	Chicago av	Division st	$847 \ 76$
811	Polk st	State st	Chicago river	588 68
812	Fourteenth st	State st	Michigan av	125 24
813	Twelfth st	Michigan av	Twelfth st. bridge	813 66
819	Desplaines st	W. Van Buren st	Fourth st	1,666 41
824	W. Lake st	Halsted st	Paulina st	5,279 99
835	Indiana av	Twenty-second st	Twenty-ninth st	1,589 27
839	Calumet av	Twenty-first st	Cottage Grove av	1.047 80
843	Madison st	Halsted st	Robey st	6,795 16
$\begin{array}{c c}845\\846\end{array}$	Jefferson st	W. Van Buren st.	W. Randolph st Reuben st	1,267 $652,929$ 52
848	W. Adams st W. Washington st.	Halsted st W. Water st	Elizabeth st	2,529 52 2,756 40
849	Canal st.	W. Madison st	W. Twelfth st	2,927 33
988	Clinton st	W. Lake st	West Kinzie st	1,114 99
1,000	W. Lake st	Pauli a st	Western av	6,156 00
1,001	W. Harrison st	Canal st	Halsted st	1,432 15
1,002	Archer av	State st	Ogden slip	2,172 20
1,003	Dearborn st	Monroe st	Jackson st	773 00
1,004	Archer av.	Ogden slip	Halsted st	3,358 00
1,005	Halsted st	Archer av	R.R.cr'g, at 16th st	1,622 83
1,006	Sangamon st	Fulton st	Milwaukee av	2,587 50
1,007	W. Indiana st	Desplaines st	Noble st	5,078 25
1,008	Milwaukee av	Elston road	W. Division st	4,731 00
	Jefferson st	W. Van Buren st	W. Harrison st	1,023 00
1,010	W. Twelfth st	Halsted st	Beach st	3,786 25
1,012	Michigan av	Twenty-second st	Twenty-ninth st	6,085 50
			N. br. Chicago riv.	3,072 00
1,014	Market st	Kinzie st	Chicago av	1,699 00
			-	

STATEMENT OF ASSESSMENT FOR LAYING WATER SERVICE PIPES. (Continued.)

No. of Warr'nt	NAME OF STREET.	FROM	то	Amount Assessme	
1,015 1,031 1,032 1,033 1,034 1,035 1,036 1,037 1,038 1,039 1,040	Chicago av N. La Salle st N. Dearborn st North av N. Dearborn st Clinton st Randolph st Desplaines st	N. Water st N. Water st N. Wells st Division st W. Van Buren st Michigan av Clark st W. Van Buren st	E.line,B.50,Kin.add Division st Division st N. br. Chicago riv North av Harrison st Chicago river Kingsbury st W. Harrison st	$\begin{array}{c} 3,233\\ 655\\ 3,428\\ 2,907\\ 6,484\\ 2,553\\ 802\\ 1,955\\ 3,191\\ 1,195\end{array}$	$\begin{array}{c} 25 \\ 50 \\ 00 \\ 11 \\ 50 \\ 21 \\ 00 \\ 26 \\ 50 \\ 00 \end{array}$
$1,041 \\ 1,042$	W. Madison st Harrison st W. Van Buren		Wes'ern av	$282 \\ 5,804 \\ 144 \\ 5,680$	25 13 50

STATEMENT OF ASSESSMENTS FOR LAYING GAS SERVICE PIPES.

No. of Warr'nt	NAME_OF STREET.	FROM	TO	Amount of Assessment.
771 772 773 805	Desplaines st Jefferson st W. Lake st N. Desplaines W. Van Buren st Canal st Halsted st	W. Randolph st Halsted st Kinzie st Halsted st W. Harrison st W. Sixteenth st	W. Lake st W. Van Buren st Reuben st Fourth st W. Sixteenth st	617 40 279 75 255 35 500 35 346 30 290 75 147 45 848 05 321 65
	Тс	otal		\$3,607 05

STATEMENT OF ASSESSMENTS FOR CONSTRUCTION OF SIDEWALKS.

				Amount of
No. of Warr'nt	NAME OF STREET.	FROM	то	Assessment.
609	Shurtleff av	Twenty-sixth st	Napoleon place	\$131 40
610	Lake av	Douglas place	Egan av	189 45
611	Lincoln st	Lake st.	Washington st	47 25
612	Wentworth av	Sixteenth st	Thirty-first st	432 00
613	Butterfield st	Twenty-seventh st.	Thirty-third st	353 70
614	Farrell st	Archer av	C. & St. L. R. R	135 00
615	Indiana st	Lincoln st	Robey st.	86 40
616	Bonfield st	C & St.L.R.R.cross.	Hickory st	121 50
617	Joseph st	Archer av	Hickory st	236 34
618	Nineteenth st	State st.	Blackwell st	145 35
619	Lock st.	Archer av	Thirty first st	148 95
6 20	Arnold st	Thirty-first st	Thirty-third st	160 00
621	McGregor st	Builer st	Wentworth av	22 50
622	Deering st	Archer av	C. & St. L. R. R	11 25
623	Twentieth st		Wentworth av	56 25
624	Lytle st	Taylor st	Twelfth st	61 20
625	Henry st	Blue Island av	Eastern terminus of	
0.00	fichily built for the		Henry st	$454^{\circ}95$
626	Sanger st	Archer av	Twenty-sixth st	108 23
627	Broad st	Archer av	Thirty first st	30 71
643	Loomis st	Twelfth st	Sixteenth street	264 33
644	Lyman st	Main st	Deering st	535 35
645	Bushnell st	Hanover st	Archer av	137 96
646	Centre av	Sixteenth st	Twenty-second st	23 14
647	Rebecca st	Laflin st	Reuben st	32 04
648	Mitchell st	Blue Island av	Waller st	96 12
649	Oneida st	Laurel st	Halsted st	352 29
650	Centre av	W. Twelith st	Blue Island av	$95 \ 23$
651	Pitney st	Archer av	Thirty-first st	32 04
652	Purple st	Nineteenth st	Archer av	$240 \ 32$
653	Hickory st	Main st	Deering st	122 57
654	Union st	Sixteenth st	Twenty-second st	102 80
655	Catherine st	Centre av	Morgan st	$217 \ 36$
656	Thirty-first st	Halsted st	Wentworth av	756 45
657	Bryant st	Vincennes av	Moonaway place	111 24
658	Forest av	Thirty-first st	Douglas place	233 61
660	Catherine st	Canal st		44 50
661	Wrong st	Main st	S. W. cor. lot 10, B.	
			24, sec. 29	$120 \ 15$
662	Lancaster av		Ullman st	121 04
663	Whiting st		Delavan's addition.	22 25
664	Brown st			21 36
680	McHenry st		Wabansia av	109 02
681	State st	Douglas place	Egan av	890 22
682	Sampson st	Laflin st	Reuben st	266 11

STATEMENT OF ASSESSMENTS FOR CONSTRUCTION OF SIDEWALKS. (Continued.)

No. of Warr'nt	NAME OF STREET.	FROM	TO	Amount of Assessments.
			Forward	\$7,879 94
000		Deutlan at	Forward	432 21
683		Butler st	Clark st	
684	English st	Centre av	May st	
685	Tyler st	Centre av	Throop st.	22 26
686	W. Eighteenth st	Canal st	Halsted st	140 18
687	Holt st	Divisi n st	Bradley st	42 72
688	Northern av	Cottage Grove av	Illinois Central R R	72 53
690	Mitchell st	Laflin st	Reuben st	234 07
691	Hoyne st	W. Van Buren st.	W. Harrison st	21 81
692	Clayton st	Centre av	May st	233 67
693	Thirty-first st	Detring st	Pitney st	218 27
694		Twelfth st	Sixteenth st	427 62
695		Beers st.	S. br. Chicago riv.,	311 55
696	Hastings st	L ["] flin st	Reuben st	266 11
697		Douglas place	Egan av	74 76
732	Rebecca st	Morgan st	Centre av	142 85
733	Sholto st	Eleventh st	Polk st	33 38
734	Shurtleff av	Thirty-first st	Thirty-third st	166 88
735	Wood st	W. Madison st	W. Van Buren st	125 94
736	Kinzie st	Elizabeth st	Western av	190 94
737	Ruble st	Sixteenth st	Eighteenth st	85 44
738	Dussold st	J+fferson st	Halsted st	134 85
739	W. Twelfth st	Laflin st	Reuben st	53 40
740	Wright st	Canal st	Stewart av	44 50
741	Coolidge st	Waller st	Blue Island av	60 97
742	Buddan st	Twenty-sixth st	Thirty-first st	282 12
743	W. Washington st.	Leavitt st	Western av	21 36
744	Hastings st	Reuben st	Wood st	96 12
745	Western av	W. Madison st	W. Van Buren st	200 25
746	Kossuth st	Wentworth av	Halsted st	1,218 40
747	Mitchell st	Reuben st	Paulina st	131 72
748	Catherine st	Throop st	Loomis st	10 68
800	Bunker st	Canal st	Beach st	186 01
807	Langley st	Egan av	Wahpanseh av	29 04
825	Paulina st	W. Jackson st	W. Madison st	46 73
822	Reuben st	Cornelia st	Division st	19 53
830	John st	Evans st	Twenty second st	66 78
832		Hurlbut st	Halsted st	59 18
847	Wallace st	Douglas place	Esplanade st	170 88
850	Curtis st	Second st	May	26 70
851	Twenty-third st	Stewart av	Buddan st	161 16
853	Evans st	Halsted st	John st	111 72
9 89	Catherine st	Loomis st	Wood st	459 24
990	Barber st	Canal st	Halsted st	327 60
991	Mitchell st	Loomis st	Paulina st	525 99
992	W. Harrison st	Centre av	Reuben st	743 07
993		Reuben st.		133 56
994	Seward st	Canalport av	Lumber st	85 01
995	Throop st	W. Taylor st	W. Twelfth st	144 58
996	String st	Canalport av	Sixteenth st	550 54

STATEMENT OF ASSESSMENTS FOR CONSTRUCTION OF SIDEWALKS. (CONTINUED.)

No. of Warr'nt	NAME OF STREET.	FROM	TO	Amount of Assessments.
	Ann st Coolidge st Gardner st Wabash av Twenty-seventh st Reuben st W. Harrison st W. Harrison st W. Harrison st Fulton st W. Kinzie st	W. Kinzie st Blue Island av Vine st Thirty-second st Wentworth av Harbine st Canal st Bliss st Lytle st. Leavitt st Reuben st	To Forward Carroll st Waller st Halsted st Douglas place Stewart av Madison st Beach st Division st Leavitt st Oakley st Paulina st Egan av	Assessments. \$17,374 91 126 38 107 69 13 35 89 04 214 04 396 50 81 86 107 23 588 87
1,024 1,025 1,026 1,027 1,028 1,029 1,030	Walnut st Cherry av Ridgeville road Clybourn place Milwaukee av Ashley st Thirty-third st	Hoyne st. Bliss st. Clybourn place N. Br. Chicago riv. Wood st. Wood st. Cottage Grove av.	Oakley st. Division st. North av. Commercial st North av. Hoyne st. Illinois Cent'l R. R.	$\begin{array}{r} 44 & 07 \\ 66 & 78 \\ 214 & 55 \\ 375 & 14 \\ 122 & 43 \\ 730 & 08 \\ 44 & 50 \end{array}$

SUMMARY.

TOTAL ASSESSMENTS FOR STREET OPENINGS AND WI	DENINGS.	ø
North Division	\$57,749 99	
South Division	235,919 20	
West Division	173,851 92	
		467,521 11
TOTAL ASSESSMENTS FOR ALLEY OPENINGS AND WIL	DENINGS.	
North Division	\$20,785 99	
South Division	3,500 25	
West Division	5,274 03	
		29,560 27
TOTAL ASSESSMENTS FOR WOODEN BLOCK PAVEMEN	T, INCLUDING	
CURBING AND FILLING.		
North Division	\$553,311 48	
South Division	464,311 79	
West Division	782,854 25	
	<u> </u>	1,800,477 52
TOTAL ASSESSMENTS FOR MISCELLANEOUS STREET	AND ALLEY	
IMPROVEMENTS.		
North Division	\$94,408 73	
South Division	85,957 30	
West Division	116,589 57	
		296,955 60
TOTAL ASSESSMENTS FOR ERECTION OF LAMP POSTS.		
North Division	6,673 45	
South Division	13,208 94	
West Division	20,451 15	
		40,333 54
TOTAL ASSESSMENTS FOR CONSTRUCTION OF PRIVATI	E DRAINS.	
North Division	\$11,762 09	
South Division	12,974 59	
West Division	22,230 17	
		46,966 85

TOTAL ASSESSMENTS FOR LAYING OF WATER SERVICE PIPES.North Division	130,081 63
TOTAL ASSESSMENTS FOR LAYING OF GAS SERVICE PIPE. North Division. South Division. West Division \$3,607 05	3,607 05
TOTAL ASSESSMENTS FOR CONSTRUCTION OF SIDEWALKS. North Division. \$255 44 South Division. 9,782 16 West Division. 11,311 31 Total amount of assessments for the North, South and West Divisions. 9,782 16	21,348 91 \$2,836,852 48
NORTH DIVISION. Total amount of assessments for street improvements \$775,501 75 Total amount payable out of Appropriation Fund on account of same 104,357 44 Total estimated cost of street improvements	\$ 879,859 1 9
SOUTH DIVISION. Total amount of assessments for street improve- ments	952,969 51
WEST DIVISION. Total amount of assessments for street improve- ments\$1,209,981 87 Total amount payable out of Appropriation Fund on account of same	
Total estimated cost of street improvements Total estimated cost of street improvements in the North, South and West Divisions	1,401,025 84 \$3,233,854 54

TO BE PAID FROM APPROPRIATION FUND FOR STREE	ET IMPROVE-	
MENTS IN THE		
North Division	\$104,357 44	
South Division		
West Division	191,043 97	
Total		\$397,002 06

Total number of Lamp Posts provided for by assessment:

IN THE NORTH DIVISION,

From April 1st, 1869, to April 1st, 1870	1213
IN THE SOUTH DIVISION,	
From April 1st, 1869, to April 1st, 1870	1763
IN THE WEST DIVISION,	
From April 1st, 1869, to April 1st, 1870 554 Posts erected prior to April 1st, 1869. 1858	2412
Total number of Lamp Posts in the city	5388

The following is a statement of the amount of work done and to be done on account of street improvements provided for by the assessments of the year ending April 1st, 1870:

Whole number of cords of Curb Wall	28,309 98-100
Whole number of lineal feet of Curb Stone	84,926 01-100
Whole number of cubic yards of Filling	439,504 84-100
Whole number of cubic yards of Excavating and Grading	82,980 96 100
Whole number of square yards of Wooden Block Paving	513,023 20-100
Whole number of miles of Wooden Block Pavement	19 86-100
Whole number of cubic yards of Graveling	907 27-100

During the past year there has been prepared and sent to the Council the following number of Ordinances in connection with the special assessment business of the Board :

For Street Improvements	 . 121
For Alley Improvements	
For Miscellaneous Improvements	
For Sidewalks	
For the erection of Lamp Posts	
For the construction of Private Drains	
For laying Water Service Pipe	
For laying Gas Service Pipe	
For Street and Alley Openings and Widenings	
Total	 . 621

The following list shows the total amount of assessments made in each year by the Board of Public Works since it was created in 1861:

For	the	year	ending	April	1st,	1862.				\$	42,635	49
\mathbf{For}	\mathbf{the}	year	ending	April	1st,	1863					$46,\!493$	67
For	the	year	ending	April	1st,	1864				÷	889,169	31
For	\mathbf{the}	year	ending	April	1st,	1865	• • • • •			-	103,576	35
For	the	year	ending	April	1st,	1866.		•••	••••	8	302,574	56
For	\mathbf{the}	year	ending	April	1st,	1867			• • • • •	÷	817,206	18
For	the	year	ending	April	1st,	1868				1,	354,436	48
For	the	year	ending	April	1st,	1869.			••••	2,	395,683	03
For	the	year	ending	April	1st,	1870	· • • • •		••••	2,8	836,852	48

Total for nine years.....

\$8,288,627 55

LINEAL FEET OF WOODEN BLOCK PAVEMENT IN		
North Division	39,970	
South Division		
West Division	79,205	
Lineal feet of Wooden Block Pavement in the North, South		
and West Divisions		198,563

Number miles of Wooden Block Pavement in the North, South and West Divisions	
LINEAL FEET OF BOULDERS IN North Division	
Lineal feet of Boulders in the North and South Divisions Number miles of Boulders in the North and South Divisions, 3.77	21,150
LINEAL FEET OF MCADAM IN North Division)
Lineal feet of McAdam in the North, South and West Divisions, Number miles of McAdam in the North, South and West Divisions	59,450
LINEAL FEET OF GRAVELING IN North Division	
Lineal feet of Graveling in the North and South Divisions Number miles of Graveling in the North, and South Divisions, 6.43	33,970
LINEAL FEET OF CINDERING IN North Division	
Lineal feet of Cindering in the South and West Divisions Number miles of Cindering in the South and West Divisions, 2.40	12,620
LINEAL FEET OF CURBING IN North Division	:
Lineal feet of Curbing in the North, South and West Divisions	494, 3 84
Total number of miles of street in the city Total number of miles Improved Total number of miles Unimproved	$531.25\ 61.46\ 469.79$

ALPHABETICAL LIST OF THE STREETS IN THE CITY, SHOWING THEIR LENGTH, AND THE NUMBER OF FEET IMPROVED AND UNIMPROVED.

	1	1	
NAME OF STREET.	Lineal ft. Length.	Lineal ft. Improved.	Lineal ft. Unimpro'd
A	1,230		1,230
Aberdeen	5,280		5,280
Ada	3,560		3,560
Albany	1,060		1,060
Adams	17,400	10,560	6,840
Adelaide	590		590
Alexander	1,280		1,280
Almond	420		420
Ames	1,240		1.240
A nn	$2,\!640$		2.640
Archer av	18,860	11,230	7,630
Armitage road	5,680		5.680
Armour	2,650		2,650
Arnold	7,350		7,350
Arthington	780		780
Arthur	1,400		1,400
Ashley	1,930		1,930
Ashland	1,400		1,400
Astor	1,390		1.390
Asylum place	9,500		9,500
Auburn	1,420		1,420
Augusta	8,120	••••	8 120
Attica	1,230		1,230
Bank	940		940
Baldwin	230		230
Barber	2,580	••••	2,580
Batavia	650		650
Bates	650	••••	650
Bauwans	770		770
Beach	3,960	••••	3,960
Benton	670	••••	670
Benson	700		700
Belknap	250	••••	250
Belden av	4,900	••••	4,900
Berlin	1,290	••••	1,290
Barker av	620	••••	620
Better	550	••••	550
Bickerdike	1,860		1.860
Barry Point road Birch	7,750	••••	7,750
	650	••••	650
Bishop court Bissell	$\begin{array}{r} 440\\ 3,760\end{array}$	••••	440
Bixby place	3,700	••••	3,760
Blackhawk	5,975	••••	$\begin{array}{r} 400 \\ 5.975 \end{array}$
	0,940		0,940
Forward	136,005	21,790	114,215

ALPHABETICAL LIST OF THE STREETS, ETC.-(Continued.)

NAME OF STREET.	Lineal ft. Length.	Lineal ft. Improved.	Lineal ft. Unimpro'd
Brought forward	136,005	21,790	114,215
W. Blackhawk	2,300	,	2,300
Blackwell.	2,500	• • • •	2,300
Blair.	550		550
Blunche	2,550	••••	
Blanche	1,000	• • • •	2,550
Diale	1,000	••••	1,000
Block	3,351	• • • •	635
	350	••••	3,351
Blucher	9,205	0.005	350
Blue Island av		9,205	1 000
Bianchard	$1,200 \\ 250$	• • • •	1,200
Bona parte.		• • • •	250
Bonfield	1,950	• • • •	1,950
Boon	200	••••	200
Bowery	400	• • • •	400
Bradwell av	3,215	• • •	3,215
Bradley	1,480	• • • •	1,480
Bremen place	1,290	••••	1.290
Bremer	2,580	1,320	1.260
Brigham	1,300		1,300
Broad.	720		730
Broadway av	700	• • • •	700
Broadway place	1,580	••••	1,580
Broom	535	• • • •	535
Brown	6,660		6,660
Bross av	2,800		2,800
Bryant	600		600
Bryant place	680		680
Bryson	1,300		1,300
Buddan	7,190		7,190
Buena Vista place	250		250
Bunker	2,460		2,460
Burling	4,540		4,540
Burlington	1,000		1,000
Burnside	8,420		8,420
Burton place	375		375
Bushnell	2,190		2,190
Butler	1,650		1,650
Butterfield	8,600		8,600
Boardman	910		910
Beers	5,280		5,280
B	1,230		1,230
C	1,230		1,230
Calumet av	8,090	1,100	6,990
Calhoun place	2,350		2,350
Campbell	7,920		7,920
Canal	13,180	9,200	3,980
California	5,280		5,280
Canal place	525		525
Canalport av	3,800		3,800
Carl	400		400
Forward	273,206	42,615	230,591

NAME OF STREET.	Lineal ft. Leugth.	Lineal ft. Improved.	Lineal ft. Unimpro'd
Buonght formand	273,206	42,615	230,591
Brought forward	6,720		6,720
Carroll	6,315		6,315
Carpenter	500		500
Cutler	2,650		2,650
Cass	16,400		16,400
Catherine			1,230
Cayuga	$1,230 \\ 920$	1	920
Cedar	12,660		12,660
Centre av	850		850
Centre place	550		482
Central av	2,000		2.000
Champlain	6,735		6,735
Centre	630		630
Chapin	880	1	880
Charles	400		400
Charles place	850		850
Chase	3,510		3,510
Cherry av	850		850
Chestnut Chestnut place	1,100		1,100
Chicago av	28,020		
Church	3,880		3,880
Church place	630		630
Church court	1,330		1,330
Churchhill	1,300		1,300
Clarinda	1,900		1,900
Clark	32,050		1
Clay	1.300		1,300
Clayton	8,300		8,300
Cleaver	1,810		1,810
Clinton	8,950	3,220	5,730
Clybourn av	10,390		10,390
Clybourn place	5,156		5,156
Coblentz	2,600		2,600
Cologne	3,590		3,590
Columbia	4.600		4,600
Commercial	2,640		2,640
Cougress	870		870
College	620		620
Connor	650		650
Coltax	2,250		2,250
Cook	3,240		3,240
Cooper	520		520
Coolidge	3,760		3,760
Cork			620
Cornell	2,390		2,390
Cornelia	3,955		3,955 630
Corwin	630		
Cottage Grove av	11,10 0 620		620
Cottage place Couch place	2,330		2,330
Ouch place	2,000		2,000
Forward	490,957	81,523	409,434
		-,	, –

ALPHABETICAL LIST OF THE STREETS, ETC.-(Continued.)

NAME OF STREET.	Lineal ft. Length.	Lineal ft. Improved.	Lineal ft. Unimpro'd
Brought forward	490,957	81,523	409,434
Coulter	2,640		2,640
Court place	1,900		1,900
Cortland	1,840		1.840
Coventry	2,250		2,250
Cox	265		265
Crawford	250		250
Crippen	1,320		1,320
Crittenden	920		920
Crittenden av	820		820
Crooked	1.000		1,000
Crosby	1,800		1,800
Crossing	1,210		1,210
Currier	900		900
Custom House place	350		350
Curtis	4,590		4,590
Cypress	1,240		1,240
Cortez	1,320	• • • •	1,320
Crab	280	• • • •	280
Cossitt	1,180		1,180
Charlotte	590	• • • •	590
Cross	900	••••	900
$\underline{\mathbf{D}}_{\mathbf{n}}$	1,230	••••	1,230
Damon	550	• • • •	550
Dashiel	1,930		1,930
Dakotah av.	650		650
Dayton	5,555		5,555
Davis	2,640	••••	2,640
Dean	470	0.700	470
Dearborn	$10,310 \\ 850$	8,580	1,730
Dearborn place DeKoven	1,780	850	1,780
	1,100	• • • •	1,780
Depot.	1,500 1,600	• • • •	1.600
Depot place	1,600	••••	1,600
Depit place	640		640
Deering	3,100		3,100
Depuyster.	840		840
Desplaines	9,580	5,620	3,960
Dexter place	350	0,0.00	350
Dickson	2,260		2,260
Dieden.	650		650
Diller	1,280		1,280
Dinet	340		340
Division	27,390	2,900	24,490
Dix	1,465		1,465
Dock	130		130
Dodge	1,300		1,300
Douglas place	17,070		17,070
Dudley	4.565		4,565
Dunn	250		250
Forward	620,447	99,473	520,974

NAME OF STREET.	Lineal ft. Length,	Lineal ft. Improved.	Lineal ft. Unimpro'd
Brought forward	620,447	99,473	520,974
Dussold	650		650
Deerpath avenue	1,320		1,320
Derby	3,960		3,960
E	1,230		1,230
Eagle	850		850
Eastman	$2,\!450$	• • • •	2,450
Eda	1,320		1,320
Edward	540		540
Egan avenue	21,970	• • • •	21,970
Egania place	650		650
Eldridge court	870	• • • •	870
Eleventh	550	• • • •	550
Elgin	1.050	• • • •	1,050
Elizabeth	3,950	• • • •	3,950 2.015
Elk Grove	3,915	• • • •	$\begin{array}{r}3,915\\315\end{array}$
Elk	$\begin{array}{c} 315\\ 840\end{array}$	••••	840
Ellen	1,230	••••	1,230
Elmira	5,660	• • • •	5,660
Elm.	11,800		11,800
Elston road	1,220		1,220
Elisworth	450		450
Ellis avenue	2,700		2,700
Eighteenth	7,360	2,510	4,850
Emily	1,280	~,010	1,280
Emerald avenue	3,920		3,920
Emerald	1,350	1 .	1,350
Emma	2,220		2,220
English	3,090		0,000
Erie	12,420		12,420
Esplanade	1,300		1,300
Eugenie	1,030		
Evans	9,080	• • • • •	
Ewing	3,740	••••	
Edgar	1,300		
F	1,230		
Francisco	2,640		
Fall	800		4 0 7 7
Fabius	1,275		
Farrell	2,100		2,100
Fay	600 3,230		
Ferdinand	1,110		0114
Fiftcenth	800		000
Finnell	1,100		1,100
Fig	- 980		1 000
First	4,290		4,290
Fisk	3,125		0 105
Fleetwood	3,295		0.00
Florimond	500		500
Forward	765,102	101,983	663,119

ALPHABETICAL LIST OF THE STREETS, ETC.--(CONTINUED.)

NAME OF STREET.	Lineal ft. Length.	Lineal ft. Improved.	Lineal ft. Unimpro'd
Brought forward	765,102	101,983	663,119
Drought forward			
Flournoy	3,200	• • • •	3,200
Fort	300	• • • •	300
Foster,	1,235	• • • •	1,235
Forest avenue	4,510		4_{510}
Forquer	3,350		3,350
Fountain	1,320		1,320
Fourth.	17,890		17,890
Fourteenth	2,070		2,070
Fourth avenue.	1,420		1,420
Pourth avenue	1,420	• • • •	1,420
Fowler		• • • •	
Fox place	520		520
Fox.	1,330		1,330
Frankford	2600		2,600
Franklin	13,180	1.620	11,560
Fremont	3,175		-3,175
Freeman	2,640		2,640
Front	2,300		2,300
Fry	1,610		1,610
Fulton	18,000	• • • •	18,000
Fuller	1,8.)0	• • • •	
Fullenten emener	14,700		1,800
Fullerton avenue	14,100		14,700
Furlong	1,320		1,320
Fairfield avenue.	1,320		1,320
Fillmore	1,200		1,200
Geddis	900		900
Good	550		550
Gurley	2,250		2,250
Gage	2,640		2,640
Gano	840		840
Gardner	1,150		1,150
Garden	400		400
Garibaldi	2,560	• • • •	2,560
George	1,435	• • • •	
Coorgo place		• • • • •	1,435
George place	250	• • • •	250
Girard	3,915		3,915
Gilpin	1,250		1,250
Goethe	1,835		1,835
Grant	375		375
Grant place	1,300		1,300
Grand	1,900		1,900
Graves place	520		520
Grape	650		650
Grand Haven	1,050		1,050
Greeley	450		450
Green	8,280	• • • •	8,280
Greenwich	1,300	• • • •	
Grove	4,940	• • • •	1,300
Grace.			4,940
Granger	460		460
Granger	1,000		1,000
Grover	1,035		1,035
Forward	010.001		
Forward	910,097	103,603	806,494
A ·			

NAME OF STREET.	Lineal ft. Length.	Lineal ft. Improved.	Lineal ft. Unimpro'd
Brought forward	910,097	103,603	806,494
Brought forward			
Griswold	2,980	1,670	1,310
Gold	420	••••	420
Genesee av	2,640	• • • •	2,640
Haines	1,200		1,200
Halsted	36,960	22,090	14.870
Hall	640		640
Haddock place	2,690		2,690
Hamilton	1,050		1,050
Hamilton av.	810		810
Hammond	650		650
Hanover	1,990	• • • •	1,990
	7,920	• • • •	7,920
Harbine		• • • •	
Hinsdale	2,680	••••	2,680
Hipman	600	• • • •	600
Hinsche	1,770	• • • •	1,770
Hirsche	4,720		4,720
Hobbie	1,940		1,940
Hoey	400		400
Holden place	850		850
Holstein av	3,250		3,250
Harmon court	870	350	520
Harper	400		400
Harrison	27,270	1,600	25,670
	250		
Hart		• • • •	250
Hastings	6.050	• • • •	6,050
Hawthorn av	7,620	• • • •	7,620
Hawk	450		450
Haynes	430	• • • •	430
Henry	6,360	• • • •	6,360
Henshaw av	4,000		4,000
Hermitage av	2.570		2,570
Herndon	1,185		1,185
Hervey	5,100		5,100
Hewes	630		630
Hickory	3,700		3,700
Hickory av.	3,050		3,050
High	1,000		1,000
Hills.	1,475		1,475
Holt	2,590		2,590
	1,915	••••	
Homer		• • • •	1,915
Honore	2,640	• • • •	2,640
Hope	650	• • • •	650
Hotchkiss	455		455
Houston	800		800
Howe	1,560		1,560
Howard	2,600		2,600
Hoyne	13,070		13,070
Hooker	3,700		3,700
Hubbard	12,810		12,810
Hubbard court	870		870
Forward	1,102,327	129,313	973,014
	-,,	120,010	010,011

NAME OF STREET.	Lineal ft. Length.	Lineal ft. Improved.	Unimpro'd Lineal ft.
Brought forward	1,102,327	129,313	973,014
Hubbs	1,290		1,290
Hull	650		650
Hunt	550		550
Hurlbut	7,415		7,415
Huron	5,940	800	5,140
Hamilton	1,075		1,075
Holden	1,300		1,300
Heyam	$5,\!280$		5,280
Iglehart av	7,920		7,920
Illinois	4,770		4.770
Indiana	17,540		17,540
Indiana av	13,360	6,550	6,810
Ingraham	780		780
Iowa	3,800	• • • •	3 800
Iron	650		650
Irwin	450		450
Jackson	23,040	1,625	21,415
James av.	1,290	• • • •	1,290
Jane	1,600	4.390	1,600
Jefferson	12,960	4,230	8,730
Jesse place	250	• • • •	250
John	1,930	• • • •	1,93 1
John place	$\begin{array}{c} 520 \\ 700 \end{array}$	• • • •	520
Johnson avJohuson	3,470	• • • •	$700 \\ 3,470$
Joliet	250	• • • •	250
Jones av.	1,750	• • • •	1,750
Joseph	850	• • • •	850
Judd	1,320		1,320
Judson	400		400
Julian	1,300		1,300
Julius	220		220
Jones	1,270		1,270
Kansas	1,870		1,870
Keeley	1,160		1,160
Kernon	1,950		1,950
Kendall	1,150		1,150
Kingsbury	3,290		3,290
Kieth	670		670
Kınzie	26,850	5,610	21,240
Kissam	1,250		1,250
Knerr.	520	• • • •	520
Kossuth	3,690		3,690
Kramer	1,200		1,200
Kroger.	$670 \\ 10.560$	• • • •	670
Kankakee av Labar	10,560 1 100	• • • •	10,560
Labar Lafayette place	$1,100 \\ 400$	• • • •	$1,100 \\ 400$
Laflin	10,560	• • • •	10,560
Lanni Lake	27,460	16,265	10,500 11,195
	~1,100		
Forward	1,322,567	164,393	1,158,174

ALPHABETICAL LIST OF THE STREETS, ETC.-(Continued.)

NAME OF STREET.	Lineal ft. Length.	Lineal ft. Improved.	Lineal ft. Unimpro'd
Brought forward	1,322,567	164 393	1,158,174
Lake av	4,410		4,410
Larrabee	10,560	••••	10,560
Langley	1,100		1,100
Langaster	1,100		1,100
Lancaster.	13,240		9,620
Lagane	2,640	0,020	2,640
	5,280	••••	5,280
Lawrence.	420		420
Leavitt	21,300		21 300
Leavenworth	1,300		1,300
Lee place	650		650
Lee place	500	1	500
	1,575		1,575
	900		900
Lexington	1,400		1,400
Lime	17,130		17,130
Lincoln av	5,200		5,200
Linden	1,310		1,310
Lisle	450		450
Lock	2,000		2,000
Lockport	460		460
Loewe	1,020		1,020
Lowe av	2,740		2,740
Laimbeer	3,720		3,720
Long John	5,280		5,280
Long John	12,460		12,460
Lubeck	2,600		2,600
Luce	430		430
Luke	3,090		3,090
Lundy's Lane	1,270		1,270
Lull	350		350
Lumber	11,650		11,650
Lydia	850		850
Lynch place	350		350
Lytle	2.550		2,550
Lyman	$2\ 220$		2,220
Lessing	700		700
Liberty	2 550		2,550
Macalester place	1,260		1,260
Macedonia	810		810
Madison	27,380	15,950	11,480
Main	4,000		4,000
Mautene court	410		410
Maple	1,300		1.300
Marble place	1,480		1,480
Marcy	1,400		1,400
Margaret	660		660
Market	10,050		5,600
Market square	800		800
Marvin	640	••••	640
Forward	1 510 709	189 /19	1,331,289
T Of Ward	11,019,103	100,410	1,001,209

NAME OF STREET.	Lineal ft. Length.		Lineal ft. Unimpro'd
Brought forward	1,519,702	188.413	1,331,289
Mark	450		450
Mark av.	670		670
Marshfield.	1,650		1,650
Mather	1,990		1,990
Mathew	580		580
Maxwell.	6,120		6.120
Mary	900		900
May	4,450		4,450
McAlpine	1,500		1,500
McCagg place	370		370
McGlashen	470		470
McGregor	3,350		5,350
McGrath	1,360		1,360
McHenry	2.250	• • • •	2,250
McMullen court	830		830
McReynolds	1,300		1,300
Meeker	5,280		5.280
Mendell	900		900
Menominie	2,600	• • • •	2,600
Meredian	850		850
Michigan	4,400	3,150	1,250
Michigan av	21,740	15,800	5,940
Mill	640		640
Miller	1,720		1,720
Milwaukee av	13,950	11,600	2,350
Mitchell.	14,660	• • • •	14,660
Mohawk.	4,530		4,530
Monroe	15,600	3,310	12,290
Montgomery	3,680	• • • •	3,680
Moonaway place	2,550	• • • •	2,550
Moore	2,640	• • • •	2,640
Moorman	$1,320 \\ 2,580$	· • • •	$1,320 \\ 2,580$
Morton.		• • • •	15,830
Morgan	$\begin{array}{r} 15,\!830 \\ 1.540 \end{array}$	• • • •	1,540
Milligan Murray	1,340 1,360	• • • •	1,340
Myrick av.	1,500 1,450		1,300
Meacher.	2,580		2,580
McIlroy	1320		1,320
Middle	2,640		2,640
Napoleon place	1,280		1,280
Nebraska	1,870		1,870
Newberry av	2,760		2,760
Newton.	650		650
Nineteenth	2,180		2,180
Nixon	850		850
Noble	7,920	6,020	1,900
Northern av	930	••••	930
North Grove	620		620
North Branch	4,995		4,995
Forward	1,698,357	228,293	1,470,064

NAME OF STREET. Lineal ft. Longth. Lineal ft.				
North av. $26,400$ $26,400$ Norton. 850 850 Nutt. 680 850 Nutt. 680 830 Oak av. 680 830 Oak wood. 970 970 Oakwood av. 970 970 Oakwood av. 490 480 480 Okwood av. 5100 $2,230$ $2,870$ Olive. 5100 $2,230$ $2,870$ Olive. 5100 $2,230$ $2,870$ Oliva. $5,100$ $2,230$ $2,870$ Onardaga $1,230$ $1,230$ $1,230$ Onardaga. $1,230$ $1,230$ $1,230$ Orchard $6,540$ $6,540$ $6,540$ Osburne 335 535 535 Oswego. 270 270 270 Outesby $2,640$ $2,640$ $2,640$ Pagev. $1,970$ $1,970$ $1,970$ Park av. $5,280$ $5,350$ 850	NAME OF STREET.			
North av. $26,400$ $26,400$ Norton. 850 850 Nutt. 680 850 Nutt. 680 830 Oak av. 680 830 Oak wood. 970 970 Oakwood av. 970 970 Oakwood av. 490 480 480 Okwood av. 5100 $2,230$ $2,870$ Olive. 5100 $2,230$ $2,870$ Olive. 5100 $2,230$ $2,870$ Oliva. $5,100$ $2,230$ $2,870$ Onardaga $1,230$ $1,230$ $1,230$ Onardaga. $1,230$ $1,230$ $1,230$ Orchard $6,540$ $6,540$ $6,540$ Osburne 335 535 535 Oswego. 270 270 270 Outesby $2,640$ $2,640$ $2,640$ Pagev. $1,970$ $1,970$ $1,970$ Park av. $5,280$ $5,350$ 850	Recurcht formund	1 608 257	998 909	1 470 064
Norton	North av			26 400
Nuts.ry. 870 870 870 Nutt. 680 680 Oak wood 4970 4977 Oak wood. 970 970 Oak wood. 510 1250 Olive. 5100 2230 2850 Ouondaga 1230 1230 1230 Orchard. 6540 5450 535 Oswego. 270 270 270 Otis. 460 460 460 Ogden av. $10,410$ $10,410$ $10,410$ Parmalee $1,970$ $1,970$ $1,970$ Park av. $5,280$ $3,2800$ $3,890$ Park place 350 350 350 Park nade 840 840 8	Norton			
Nutr. 680 680 Oak av. 830 830 Oak wood 970 970 Oakwood av. 970 970 Oakwood av. 480 480 Oakwood av. 11,660 11,660 Olive. 5100 2,230 2,870 Olive. 530 530 850 Ontario. 5,640 5,640 5,640 Oabarte. 535 535 535 Orchard. 6,540 5,640 2,640 Oalesby. 2,640 2,640 2,640 Odiesby. 2,640 2,640 2,640 Oglen av. 1,970 1,920 1,320 Parmalee 1,230 1,320 1,320 Parg. 1,970 1,970 1,970 Park av. 5,250 5,280 5,280 Park N aud S. 3,890 3,800 3,800 Part K N aud S. 3,890 3,800 3,800 Pearl 6,500 6,500 6,500 Peart 1,033 1	Nurserv			
Oak av. 830 830 Oak 4,970 4,970 Oak wood 970 970 Oak wood av. 480 480 Oakley. 11,660 11,660 Oakley. 11,660 1,250 Obio. 5,100 2,230 2,870 Olive. 5,50 350 350 Onondaga 1,230 1,230 1,230 Ontario. 5,640 5,540 5,640 Oasborne. 535 535 535 Oswrgo. 270 270 270 Orlesby 2,640 2,640 2,640 Ogden av. 10,410 10,410 10,410 Parmalee 1,320 1,320 1,320 Page. 1,970 1,970 1,970 Park N and S. 3,890 3,890 3,890 Park R and W 840 840 840 Pearle 620 620 620 Pearec 840			••••	
Oak 4,970 4,970 Oak wood 970 970 Oak wood av 480 480 Oak wood av 480 11,660 O'Brien 1,250 1,250 Olito 5,100 2,230 2,870 Olive 850 850 850 Onondaga 1,230 1,230 1,230 Ontario 5,640 5,640 5,640 Orchard 6,540 6,540 6,540 Obsorne 270 270 270 Odis 460 460 2,640 2,640 Ogen av 10,410 10,410 1,320 1,320 Parmalee 1,320 1,320 1,320 1,320 Park av 5,280 5,280 5,280 5,280 Park place 350 350 350 350 Park N aud S 3,890 3,890 3,890 3,890 Park av 620 620 620 620 Pearce 840 840 840 840				
Oak wood 970 970 970 Oak wood av 980 480 480 Oak ley 11,660 11,660 11,660 O Brien 1,250 1,250 1,250 Ohio. 5,100 2,230 2,870 Olive 850 850 850 Onondaga 1,230 1,230 1,230 Ontario. 5,640 5,640 5,640 Oasborne. 535 535 535 Oswego. 270 270 270 Ode av. 2,640 2,640 2,640 Ogden av. 10,410 10,410 10,410 Parmalee 1,320 1,320 1,320 Pagr. 19,70 1,970 1,970 Park av. 5,280 5,280 5,280 Park N and S 3,890 3,890 3,890 Park N and S 3,130 1,333 1,033 Pearl 620 620 620 Pea				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			1	970
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		480		
O'Brien. 1,250 1,250 Ohio. 5,100 2,230 2,870 Olive. 850 1,230 1,230 Onandaga 5,640 5,640 5,640 Oneida. 1,230 1,230 1,230 Orchard. 6,540 6,540 6,540 Osborne 535 535 Oswego. 270 270 Otis 460 460 Ogden av. 10,410 10,410 Parmalee. 1,320 1,320 Page 1,970 1,970 Park va. 5,280 5,280 Park place. 350 350 Park N aud S. 3,800 3,800 Paark N. aud S. 3,130 3,130 Paark N. aud S. 6,290 620 Pearec 840 840 Paulina 18,480 18,430 Pearl 620 620 620 Pearson 3,130 3,130 3,130 Peck 1,230 1,230 1,230 Ph				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
Olive 850 850 Onondaga 1,230 1,230 Ontario 5,640 5,640 Oaeida 1,230 1,230 Orchard 6,540 5,640 Osborne 535 535 Oswego 270 270 Odlesby 2,640 2,640 Ogden av 1,970 1,970 Page 1,970 1,970 Page 1,970 1,970 Park Naud S 3,890 3,890 Park Place 3,890 3,890 Park Naud S 3,890 3,890 Pearce 840 840 Pearce 840 840 Pearce 1,033 1,033 Pearce 3,130 3,130 Pearce 910 910			2,230	2,870
Ouondaga 1,230 1,230 Ontario 5,640 5,640 Oaeida 1,230 1,230 Orchard 6,540 6,540 Osborne 535 535 Oswego 270 270 Odis. 460 460 Ogden av 2,640 2,640 Page 1,970 1,970 Park av 5,280 5,280 Park place 350 3,890 Park N. aud S. 3,890 3,890 Park L and W 840 840 Pearce 1,033 1,033 Pearce 1,033 1,033 Peek court 870 870 Penn 660 460 Peoria 6,590 6,590 Pertry 900 900 900 Pertry 900 900 900 Pertry 900 900 900 Pertrson 3,500 350 Pretrson 665 665 Phillips 910 910 9	Olive			850
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		1,230		1,230
Orchard $6,540$ $6,540$ Osborne 535 535 Oswego 270 270 270 Otis 460 460 2640 $2,640$ $2,640$ Oglesby $2,640$ $2,640$ $2,640$ $2,640$ $2,640$ Oglen av $10,410$ $10,410$ $10,410$ $10,410$ $10,410$ Parmalee $1,320$ $1,320$ $1,320$ $1,320$ Park x $5,280$ $5,280$ $5,280$ Park N and S $3,800$ $3,890$ $3,890$ Park N and S $3,890$ $3,890$ 840 Pearl 620 620 620 Pearl 620 620 620 Pearl 620 620 620 Pearl 6500 $6,590$ $6,590$ Peek $1,033$ $1,033$ $1,033$ Peck court 870 870 870 Perry 900 900 900 900		5,640		5,640
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Prairie av. 11,360 6,550 4,810 Pratt 1,450 1,450	Post	680)	680
Pratt	Prairie av	11,360		4,810
	Pratt			
Forward				
	Forward	1,867,950	241,433	51,626,517

ALPHABETICAL LIST OF THE STREETS, ETC.-(Continued.)

NAME OF STREET.	Lineal ft. Length.	Lineal ft Improved.	Linea l ft. Unimprv'd
Dreught formond	1,867,950	941 433	1,626,517
Brought forward	1,320		1,0~0,011
Prentiss	840		840
Price place	1,200		1,200
Purple	1,050		1,200 1.050
Putnam	2,300	• • • •	2,300
Quarry	700	• • • •	2,300
Queer place	3,390	• • • •	3,390
Quincy	1,620	• • • •	1,620
Qui m.	2,900	••••	2,900
Racine road	1,300	• • • •	1,300
Railroad av	12,550	4,900	7,650
Randolph	840		840
Ray	9,260		9,260
Rebecca Redfield	1,150		1,150
Rees	3,400		3,400
Reuben	28,340	••••	28,340
Rhine	1,290		1.290
Rhodes av.	2,250		2,250
Rice place	650		660
Rice	650		650
Ridgeley	1,320		1.320
Ridgeville road	4,380		4,380
River.	1,350	670	680
Roberts	900		900
Robey	26,835		26,835
Roe	220		- 220
Rose	650		650
Rosebud	1,950		1,950
Ruble	2,350		2,350
Rucker.	5,250		5,250
Rumsey	3,170		3,170
Rush	4,820	2,550	2.270
Rum	920		920
Rawson	1,025		1,025
Rountree	1,080		1,080
Rockwell	2,640		2,640
Samuel	2,640		2,640
Sampson	9,040		9,040
Sangamon	7,000	3,600	3 400
Sanger	1,050		1.050
Saratoga	2,150		2,150
Salt	450	••••	450
Schiller	3,510	••••	3,510
School	1,560	• • • •	1,560
Scott	1,590 1,980	••••	$1,590 \\ 1,980$
Sebor		• • • •	6,750
SecondSedgwick	11,460		11,460
Selah	780		780
Seeley	1,850		1,850
Forward	2,055,630	253,153	1,802,477

NAME OF STREET. Lineal f. Length Lineal f. Improved Unampv'd Brought forward. 2,055,630 253,153 1,802,477 Selden. 1,650 1,060 1,060 Senect. 1,650 1,650 1,650 Senect. 2,060 400 2,060 Shaughnessy. 2,060 2,450 2,450 Sheffieldav. 2,450 2,440 2,440 Sheffieldav. 2,460 2,440 2,440 Sholto. 2,120 2,120 2,120 Short. 315 315 315 Shurtleff av. 4,470 4,470 4,470 Silde. 1,670 1,670 2,500 Silver. 4,470 4,470 4,470 Silver. 4,640 360 360 Smith 1,670 2,500 360 Silver. 4,470 4,470 4,470 Silver. 1,670 360 360 Smith av. 360 3				
	NAME OF STREET.			
Seneca 1,060 1,060 Seventeenth 1,650 1,650 Seward 2,060 2,060 Shangthnessy 400 400 Sheffieldav. 5,640 5,640 Sheffieldav. 2,450 2,450 Sherman 2,930 850 2,080 Shober. 2,640 2,640 2,640 Sholto 2,120 2,120 2,120 Shortheff av. 4,470 4,470 1,730 Sibley 1,730 1,670 1,670 Silver. 420 420 420 Silver. 420 420 420 Silver. 1,070 1,670 1,670 Silver. 1,070 1,670 2,560 Shart. 860 360 360 Smith. 1,070 1,670 2,500 Shell. 1,070 1,670 2,900 2,900 Submart. 830 830 830 830 Smith av. 830 930 930 Spring.	Brought forward	2,055,630	253,153	1,802,477
Seventeenth 1,650 1,650 Seward 2,060 2,060 Shanghnessy 400 Sheflon 2,450 Sheldon 2,450 Short 2,120 Short 315 Shurtleff av. 4,470 Short 315 Shurtleff av. 4,470 Silver. 1,670 Silver. 420 Silver. 420 Silver. 420 Silver. 420 Silver. 420 Silver. 1,670 Silver. 1,640 Silver. 1,670 Silver. 1,640 Silver. 1,640 Silver. <td< td=""><td>Selden</td><td></td><td></td><td></td></td<>	Selden			
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Shatgehidav. 400 400 Sheffieldav. 5,640 5640 Sheffieldav. 2,450 5.640 Sheffieldav. 2,450 5.640 Sheffieldav. 2,450 5.640 Short 2,930 850 2080 Short 2,640 2,640 2,640 Short 315 315 315 Shurtleff av. 4,470 .4,470 .4,470 Silver. 420 .420 .420 Silver. 420 .420 .420 Silver. 360 360 360 Silver. 360 .360 360 Silver. 2,900 2,900 2,900 South Port av. 2,900 2,900 2,900 South Western av. 14,985 14,985 14,985 Spring. 1,420 1,420 1,420 Springer av. 930 930 930 Spring. 14,985 14,985 14,985 St. John's place 30,00 500 500 <t< td=""><td>Seward</td><td></td><td></td><td></td></t<>	Seward			
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Temple. 670 670 Third av. 5,260 5,260			• • • •	
Third av 5,260 5,260	Taylor		• • • •	
	Temple			
Forward		5,260		5,260
Forward	17			
	Forward	2,250,708	271,543	1,979,165

NAME OF STREET.	Lineal ft. Length.	Lineal ft. Improved.	
Brought forward	2,250,708	271,543	1,979,165
Thirteenth	1,220		1,220
Tnirtieth	4,750		4,750
Thirty first	24,570		24,570
Thirty-second	3,560		3,560
Thirty-third	9,230		9,230
Thirty-fourth	2.000		2,000
Thomas	3,900		3,900
Thompson	2,620	· • • •	2,620
Thorn	640	• • • •	640
Throop	10,430		10,430
Todd	250		250
Towns court	270		270
Townsend	2,480	710	1,770
Trenton	2,325	• • • •	2,325
Tucker	2,640	• • • •	2,640
Trustee	270	9 500	270
Twelfth	27,640	2,500	25,140
Twentieth	4,680	• • • •	4,680 5,110
Twenty-first	5,110 23,720	2,620	21,100
Twenty-second	5.960	2,020	5,960
Twenty-third	6,560		6,560
Twenty-fourth		1	7,780
Twenty fifth Twenty-sixth	7,880		7,880
Twenty-seventh			2,700
Twenty-seventh	880		880
Twenty-ninth	5,200		5,200
Twomey	1		300
Tyler	11,410		11,410
Talman av			1,320
Troy	440		440
Union			11,310
Union place	880		880
University place	800		800
Upton			430
Ullman	5,280		5,280
Van Buren	18,750		13,330
Van Horn			3,240
Valiquitte			660
Vernon av	1,260	••••	1,260 1,150
Vedder	1,150		660
Vermont av.			1,480
Vine Vincennes av			2.630
Valentine			1,050
Wabansia av	1 0'01		8,315
Wabashav			
Wade	1 1 1 1 1 1		. 450
Wahpanseh av			10,560
Waller	1 1 0 10		1,240
Forward	2,524,728	298,893	2,225,835

ALPHABETICAL LIST OF THE STREETS, ETC.-(Continued.)

NAME OF STREET.	Lineal ft. Length.	Lineal ft. Improved.	Line a l ft. Unimpr'vd
Brought forward	2,524,728	298.893	2,225,835
Wallace	9,300		9,300
Walnut	6,115		6,115
Walsh	2,640		2,640
Ward	550		550
Water S	3400	3,400	
Water N	5,270		5,270
Water W	2,350		2,350
Waterville	800		800
Warren av	8,405		8,405
Washington av	10,780	'	10,780
Washington place	400	'	400
Washington	16,690	9,910	6,780
Waver	450		450
Wayman	1,230		1,230
Weed	2000		2,000
Wells	16,790	12,300	4,490
Wendell	1,450		1,450
Wentworth	13,120		13,120
Wesson	2,580		2,580
Western av	36,960		36,960
West Liberty	2,640		2,640
White	3,750		3,750
White House place	1,260	••••	1,260
Whiting	1,300	• • • •	1,300
Whitney	1,575	• • • •	1,575
Wilcox	4,240		4,340
Will	550	• • • •	550
William.	2,670		2,670
Willow.	3,310	• • • •	$3,310 \\ 420$
Willard place	420	• • • •	420 3,065
Wilmot av	3,065	• • • •	1,330
Wilson Wiuchester .	1,330	• • • •	2,630
Winter	$2,630 \\ 500$	• • • •	2,050
Wisconsin.	2.320	• • • •	2,320
Wood	23,515	• • • •	23.515
Wright	5,230	• • • •	5,230
Wrong	1,600	• • • •	1,600
Washtenaw av	1,320	 	1,320
Whisky Point road	7,980		7,980
Whiteside	13,790		13,790
Whipple	1,140		1,140
Yeaton	680		680
York	950		950
Yorktown	1,735		1,735
Yager	2,640		2,640
Streets not named	46,880	••••	46,880
9 (T) ()	2.005.000		- 100 - 207
Total	2,805,028	324,503	2,480,525

Respectfully submitted,

F. H. BAILEY,

In charge of Special Assessments.

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SIDEWALKS.

The following exhibit of sidewalks constructed under the ordinances of the Council, by owners and by the Board, under a contract for such work, it is hardly necessary to say, pertain exclusively to pine plank walks. In nothing does Chicago seem so much to manifest a lack of that permanency and solidity which properly belong to a large and prosperous city, as in its sidewalks. Constructed of a material which shows signs of decay almost as soon as laid on the ground, and which as soon is liable to fracture, to holes and consequent accident; our sidewalks are altogether inferior to what they should be, and are the source of constant care and complaint. Where the walks are much elevated it is not easy to find a suitable material other than wood, except at much greater cost. It is to be hoped, however, that in the well occupied parts of the city it will speedily give place to something more substantial.

MR. A. W. TINKHAM,

Secretary of the Board of Public Works.

SIR: The undersigned respectfully presents the following report, relating to the construction and reconstruction of sidewalks, from April 1, 1869, to March 31, 1870, under the following ordinances:

SIDE.	STREE	ст.	FROM	то	ALL BUILT.	EXCEPT.
		st.	Halsted st.	Division st. br.	All built.	
S. S.	Whiting	66	Delevan add.	Market st.	66	
B. S.	Orchard	66	Clybourn av.	North av.	66	
S. S.	Centre	"	Orchard st.	Halsted st.	66	
N. S.	Centre	"	Halsted "	Fremont "	66	
W. S.	Halsted	"	Centre "	Sophia "	66	
N. S.	Scott	"	N. State "	Stone "	66	
E. S.	Crosby	66	Larrabee "	Division "	66	
	Orchard	"	Centre "	Sophia "	44	
B. S.	Gardner	" "	Vine "	Halsted "	44	
B. S.	Weed	66	Halsted "	Sheffield "		not built.
W. S.	Bissell	" "	Dayton "	Clay "	"	
	Asylum	pl.	Hurlbut "	Halsted "	66	

NORTH DIVISION.

SIDE.	STREET.	FROM	то	ALL BUILT.	EXCEPT.
B. S.	Dayton st.	North av.	Willow	All built.	
S. S.	North av.	N. Dearborn	N. Clark	66	
W. S.	N. Dearborn st	Burton pl.	North av.	66	
		Bliss	Division		
E. S.	Racine av.	Clybourn pl.	Centre		175 feet.
	Willow st.	Sheffield av.	Bissell	66	
	Bissell "	Dayton "	Willow	66	
W. S.	Crosby "	Larrabee	Division	66	
W. S.	Cherry av.	Bliss	Division		
N. E.	Clybourn "	North av.	Racine av.		345 feet.
E. S.	Roberts st.	Erie	Chicago av.		not built.
N. S.	Wendell "	Market	Sedgwick		66
E. S.	Racine av.	Centre	Fullerton av.		66
N. S.		Racine av.	Larrabee		66
B. S.	Asylum pl.	Halsted	Clybourn av.		66
N. S.	Division st.	Sedgwick	Clybourn av.	66	
B. S.	Clybourn av.	Division	North av.	66	
S. S.	Huron st.	Townsend	Kingsbury		66
E. S.	Dayton "	Sophia	Asylum pl.		66
E. S.		Sophia	Asylum pl.		150 feet.
E. S.	Selah "	Hobbie	Division	l	' 150 feet.

NORTH DIVISION-CONTINUED.

SOUTH DIVISION.

SIDE.	STREET.	FROM	то	ALL BUILT.	EXCEPT.
W. S.	Honoré	Napoleon pl.	Twenty-eighth	All built.	
N. S.	Napoleon pl.	Buddan	Stewart av.	66	
S. S.	Napoleon pl.	Hanover	Stewart av.	66	
W. S.	Levee st., in	part of Lot 5,	B. 12, C. S. S.	Sec. 29.	not built.
B. S.	Bushnell	Hanover	Archer av.	All built.	
B. S.	Bryant	Vincennes av.	Moonaway pl.	"	
S. S.	Lancaster av.	Benson	Ullman	66	
B. S.	Burnside	Twenty-fifth	Twenty-sixth	66 🖘	
N. S.	Thirty-third	Butterfield	Kankakee av.	66	
S. S.	Thirty first	Cottage-G. av	Forest av.	66	
W. S.	Shurtleff av	Thirty-first	Thirty-third	66	
E. S.	Mary	Archer av	Hickory		
B. S.	Kossuth	Wentworth av	Halsted	66	
B. S.	Buddan	Twenty sixth	Thirty-first	"	
B. S.	Emerald av.	Douglas pl.	Egan av.	دد	
E. S.	Benson	Thirty-first	Lancaster		264 feet.
N. S.	Twenty-sec'nd	Prairie av.	Kankakee av.	66	
B. S.	Street running	E. and W. thro'	McPherson &	Allerton Ad.	205 feet.
E. S.	Kankakee av.	Wahpanseh av	Egan av.		Soo feet.
E. S.	Hanover	Archer av.	Kossuth	66	
S. S.	Twenty-third	Stewart av.	Buddan	"	
B. S.	Langley	Egan av.	Wahpanseh av	66	
	Wallace	Douglas pl.	Esplanade	66	
	Quincy	Clark	Wells	"	
S. S.	Thirty-third	Cottage-G. av.	I.C.R.R.	66	
B. S.	Moonaway pl.	Wahpanseh av			304 feet.
	Wabash av.	Thirty-second			
	Reuben		Archer av.		188 feet.

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THE BOARD OF PUBLIC WORKS.

SIDE.	STREET.	FROM	TO	ALL BUILT,	EXCEPT.
S. S.	Wahpanseh av	Stewart av,	Halsted		249 feet.
B. S.	Twenty-sev'th		Stewart av,	All built.	
N. S.	Mill		Jones	4.6	
S. S.	Rav	Prairie av,	S. Park av.		100 feet.
W. S.	Buddan	Twenty-filth	Twenty-sixth	66	
B. S.	Garibaldi		Twenty-ninth		648 feet.
E. S.	Vernon av.	Douglas pl,	Wahpanseh av		216 leet.
N. S.	Twenth-first	Stewart av,	Purple		300 leet.
S. S.	Crippin	Indiana av,	State		129 feet.
B. S.	Alexander	Wentworth av,	Stewart av.		975 feet.
W. S.	Arnold	Thirty first	Thirty-third		250 feet.
S. S.	Egan av.	Lake av.	Cottage-G, av,		
B. S.		State	Ogden Slip	66	30 feet.
S. S.	Randolph	Market	C. River	66	
S. S.	Twenty-ninth	Michigan av.	State		240 feet.
E. S.		Archer av,	Fuller		not built.
N. S.	Thirtieth	Clark	Wentworth av,		120 feet.
S. S.	Lyman	Deering	Lock		150 feet.
N. S.	Napoleon pl	Buddan	Wentworth av.		not built.
B. S.	Elgin	Stewart av,	to western term		6.
E. S.	Arnold	Twenty-third	Twenty-fourth	ļ	150 feet.
N. S.	Cayuga	Halsted	Laurel		not built.
E. S.	Grove	Archer av,	Eighteenth		66
S. S.	Twenty-first	Stewart av.	State		300 feet.
B.S.		Archer av.	Grove		not built.
E.S.	S. Park av,	Twenty-sec'nd	Twenty-sixth		44
W. S.		Kossuth	Archer av,	66	66
	Wahpanseh av	Cottage-G, av.	I. C, R, R,		175 feet.
S. S.		Wentworth av,		66	

SOUTH DIVISION-CONTINUED.

WEST DIVISION.

				1
STREET.	FROM	то	ALL BUILT.	EXCEPT.
Ranson	McHenry Elston road		All built.	
Wright	Wabansia av.	North av.	66	
0			66	
	Evans	Twenty-sec'nd	66	
		-	66	
	Halsted to	eastern term's	66	
			6.6	
Catherine				
Throop	Blue-Island av	Twenty-sec'nd	66	
			66	
	44		٤٢	
	Division	Bradley	6.6	
	Waller	Blue-Island av	66	
	Canalport av.	Sixteenth	66	
			44	
	0		66	
	6.	L 1	44	
	Elizabeth		"	
			46	
	Loomis	Wood	66	
	Ranson Wright McHenry Morgan Gurley Mather Curtis Catherine	RansonMcHenryWrightWabansia av.McHenryBlancheMorganEvansGurleySholtoMatherHalsted toCurtisSecondCatherineCentre av.ThroopBlue-Island avLoomis"Laflin"HoltDivisionCoolidgeWallerStringCanalport av.RebeccaMorganTwenty-sec'nd"KinzieElizabethRumseyAugusta	RansonMcHenryElston roadWrightWabansia av.North av.McHenryBlancheWabansia av.MorganEvansTwenty-sec'ndGurleySholtoCentre av.MatherHalsted toeastern term'sCurtisSecondMayCatherineCentre av.ThroopBlue-Island avLaflin"HoltDivisionBradleyCoolidgeWallerBlue-Island avStringCanalport av.SixteenthRebeccaMorganCentre av.Twenty-sec'nd"ReubenKinzieElizabethWestern av.JaneJaneJane	RansonMcHenryElston roadAll built.WrightWabansia av.North av."McHenryBlancheWabansia av."MorganEvansTwenty-sec'nd"GurleySholtoCentre av."MatherHalsted toeastern term's"CurtisSecondMay"CatherineCentre av.Morgan"ThroopBlue-Island avTwenty-sec'nd"Laflin""""HoltDivisionBradley"CoolidgeWallerBlue-Island av"StringCanalport av.Sixteenth"RebeccaMorganCentre av."Twenty-sec'nd"""KinzieElizabethWestern av."RumseyAugustaJane"

NINTH ANNUAL REPORT OF

WEST DIVISION-CONTINUED.

		1	1		,
SIDE.	STREET.	FROM	TO	ALL BUILT	. Except.
E.S	Western av.	Madison	Van Buren	All built.	
N.S.	Clayton	Blue-Island	av Wood	44 GUILL	
S. S.	Fourth	Elizabeth	Noble	66	
E. S.	Wood	West Madiso	on Van Buren	66	
S.S.	Wright	Canal	Stewart av.	66	
B.S.	Bunker	66	Beach	66	
E.S.	Sholto	Eleventh	Polk		
B.S.	Dussold	Jefferson	Halsted	"	
N.S.	Hastings	Reuben	Wood	"	
S.W.S	Milwaukee av	. Wood	North av.	"	
E.S	Elston road	Fullerton av.	Clybou-n pl	66	
W. S.	Reuben	Cornelia	Division		
S.S.	Second	Carpenter	Noble	66	
B.S.	Barber	Canal	Halsted		
N.S. 1	Damon	Sholto	May	66	
E. S. (Throop	Taylor	Twelfth	66	
E. S. 3	Sangamon	Van Buren	Harrison	66	
S. S. 1	Kinzie	Reuben	Paulina	66	
W. S. 1	Wood	Ashley	Fourth	66	
S: S. 4	Adams	Reuben	Laflin	66	
5. S. I	Harrison	Canal	Beach	66	
W. S. I	Leavitt	Madison	Warren av.	ii	
N.S. H	lvans	Robey	Centre av.		not built.
S.S. H	fulton	Leavitt	Oakley	66	not built.
S.S. H	Evans	Halsted	John	66	
E.S.J	ohn	Evans	Twenty-sec'nd	1 66	
B. S. H B. S. H	larrison	Centre av.	Reuben	66	
D. S. F	linman	Wood	Lincoln	66	
E.S. T	hroop	Taylor	Twelfth	66	
B.S.S.	eward	Canalport av	Lumber		
S.S.H	arrison	Lytle	Leavitt	"	
S.S.N.	litchell	Loomis	Paulina	"	
E.S.L	eavitt	Lake	Kinzie	"	
B.S. W B.S. L		Hoyne	Oakley	66	
B. S. A	ahin	Adams	Harrison	66	
W. S. L	incoln	Wood	Hoyne ·	66	
W.S.Jo	hncom	Indiana	Fourth	66	
B. S. L	oomis	Twelfth	Sixteenth	66	
N. S. C		Jackson Plue Lilee 1	Harrison	44	
NSB	loom'gdale rd	Blue-Island av	Waller	"	
W S R	idgeville rd	Cluberry	Commercial		
S S C	lybourn av.	Clybourn pl.	North av.	"	24 feet.
B. S. L	affin	N. Branch br. Adams	Commercial	"	
	cGrath		Harrison	66	
B. S. L.		West terminus Harrison	eta .		72 feet.
E. S. N		Indiana	Taylor	partly built.	
S. S. Fe		Lincoln	Fourth	built.	
N. S. H		Campbell av.	Leavitt Wostonn on	partly built.	
B. S. Ja		Western av.	Western av.	"	
		Madison	Rockwell Harrison	"	
S. S. H		Western av.	T •		75 feet.
S. S. Fo			Robey	partly built.	
E. S. No			Hubbard	"	
	14	1	rubbaru	66	

THE BOARD OF PUBLIC WORKS.

		1	1			
SID	Е.	STREET.	FROM	T O	ALL BUILT.	EXCEPT.
В.	S.	Page	Kinzie	Hubbard	built.	
В.	S.	Fox pl.	Elston road.	Noble	66	
S.	S.	Twenty-sec'nd	Morgan	Halsted	66	
		Sampson	Laflin	Reuben	66	
W.	S.		Luke	Eighteenth	66	
		Milwaukee av.		Lake	not opened.	
			Lincoln	Wood	built.	
		Ridgeville rd.			partly built.	
			Lincoln	Campbell	* č.	
			Western av.	Rockwell	6.6	
			Kinzie	Lake	66	
			The River	Ridgeville rd.	66	
				California	" "	
		Robey		Hubbard	66	
		Ashland av.		North av.	"	
		Ada	Hubbard	Kinzie	built.	
Β.	S.	S. Western av.	Madison	Robey	partly built.	
		Lake	C. C. C. R. R.	California	nothing b'lt.	
		Stanton		Lake	partly built.	
		Blair		S. termin Blair	1 <u>.</u> .	
		John's pl.	Halsted	Green S. Br'ch	Add. Built.	
Ε.	S.	Osborne	Indiana	Fourth	partly built.	
		Elk	Bauwan	Ridgeville rd.	1 J.	
		Dickson	North av,	Blanche	nothing b'lt.	
		Ada		Indiana		
		Noble		Cornelia	partly built.	
	_					

WEST DIVISION-CONTINUED.

1 .

SIDEWALKS ASSESSED AND BUILT BY CONTRACTOR.

SOUTH DIVISION.

SIDE.	STREET.	FROM	то	NO. OF FEET.	COST.
N. S. W. S. B. S. S. S. S. S. S. S. S. S. S. S. S. S. S	Shurtleff av. Lock Butterfield Farrell Wentworth av. Lake av. Bryant av. Thirty-first Lyman Oneida Archer av. Thirty-first State Dashiel Buddan Wabash av.	State Twenty-sixth Archer av. Twenty-seventh Archer av. Sixteenth Douglas place Vincennes av. Halsted Main Laurel Beers Deering Douglas place Douglas place Twenty-sixth Thirty-second Douglas place Douglas place Wentworth av.	Blackwell Napoleon place Thirty-first Thirty-third C. & St. L. R. R. Thirty-first Egan av Moonaway place Wentworth av. Deering Halsted South Branch Pitney av. Egan av. Egan av. Egan av. Thirty-first Douglas place Esplanade Egan av. Halsted	$\begin{array}{c} 865\frac{1}{2} \\ 311\frac{1}{2} \\ 243 \\ 234 \\ 125 \\ 599 \\ 125 \\ 100 \\ 261 \\ 273 \\ 388 \\ 25 \\ 353 \\ 1938 \\ 144 \\ 247 \\ 100 \\ 200 \\ 432 \\ 1562 \\ \end{array}$	\$311.58* 112.14 87.48 84.24 45.00 215.64 45.00 36.00 93.96 98.28 139.68 9.00 116.94 697.67 51.84 88.92 36.00 72.00 155.52 562.32
			Total		\$3,059.21

WEST DIVISION.

SIDE.	STREET.	FROM	то	NO. OF FEET.	COST.
S. S.	Van Buren	Reuben	Robey	442	\$155.52
E. S.	Lytle	Taylor	Twelfth	125	48.60
B. S.	Henry	Blue Island av.	Eastern terminus	745	263.20
N. S.	Indiana	Lincoln av.	Robey	188	60.48
E. S.	Lincoln	Lake av.	Washington	107 ¹ / ₂	38.70
N. S.	Catharine	Centre av.	Morgan	295	106.20
B. S.	Loomis	Twelfth	Sixteenth	218	78.48
N. S.	Rebecca	Laflin	Reuben	80	28.80

* Around Hospital.

THE BOARD OF PUBLIC WORKS.

WEST DIVISION .- CONTINUED.

SIDE. STREET.	FROM	то .	NO. OF FEET.	cost.
E. S. Western av.	Madison	Van Buren	469	\$168.84
E. S. Ruble	Sixteenth	Eighteenth	121	43.56
E. S. Twelfth	Laflin	Reuben	48	17.28
N. S. Hastings	Reuben	Wood	50	18 00
N. S. Hastings	Laflin	Reuben	576	207 36
S. S. Coolidge	Waller	Blue Island av.	25	9 00
E. S. Wood	Madison	Van Buren	301	108 36
S. S. Washington	Leavitt	Western av.	48	17.28
N. S. Mitchell	Reuben	Paulina	96	34 56
N. S. Rebecca	Morgan	Centre	195	3+ 50 70 20
S. S. Wright	Canal	Stewart av.	100	36.00
S. S. Catherine	Throop	Loomis	36	8.64
N. S. Kinzie	Elizabeth	Western av.	530	190 So
N S. Mitchell	Laflin	Rebecca	403	146 88
W.S. Holt	Division	Bradley	96	
W.S. McHenry	Blanche	Waubansia	50	34.56 18.00
W.S. Morgan	Twelfth	Sixteenth	858	308.88
B. S. Clavton	Centre av.	May	175	63 00
B. S. English	Centre av.	May	185	66.00
S. S. Eighteenth	Canal	Halsted	82	
N. S. Adams	Reuben	Laflin		29.52
S. S. Harrison	Canal	Beach	25	43 20
W.S Reuben	Harbine	Madison	693	9 00
B. S. Walnut	Hoyne	Oakley		263 34
B. S. Bunker	Canal	Beach	99 150	35.64
E. S. John	Evans	Twenty-second		54 00
N S. Coolidge	Blue Island av.	Waller	75 48	27 00
W.S. Ridgeville road	Clybourn place	North av.	386	17 28
S. S. Evans	Halsted	John		138.24
W.S. Milwaukee av.	Wood	North av.	203	73 08
B. S. Ashley	Wood	Hoyne	275 480	99 00
B. S. Curtis	Second	May	60	172 80
E. S. Throop	Taylor	Twelfth	25	21.60
B. S. Seward	Canalport av.	Lumber		9 00
	Portati	Laniber	75	27.00

NORTH DIVISION.

SIDE.	STREET.	FROM	ŤO	NO. OF FEET.	COST.
B. S. E. S.	Cherry av. Gardner av. North Branch Whiting	Bliss Vine Bliss Market	Division Halsted Division Delavan add.	1.50 30 252 50	\$54.00 10 80 90 00 18 00
			Total		\$172.80

65

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EXHIBITING THE NUMBER OF FEET OF SIDEWALK CONSTRUCTED OF DIFFERENT WIDTHS

IN EACH DISTRICT, DURING THE FISCAL YEAR.

-18

Yearly	Totais in each Dist.	34.803 29.200 13.242 19.333 103,609 54.718	Ico 18.335 234 637 983 4.391 16,380 52.876 415 8.681 1.470 1.717 14.439 61.677 275 23.078 375 6.064 13.380 102,208	
ties.	16 ft	16.743 3.676 4.418 905 1,325 480	16,380 14,439 13.380	71,746
Locali	14 ft	4,155 3,225 6.768 4.430 4.796 240	4.391 1.717 6,064	35,786
n Old	12 ft	542 2,871	983	4.999
Verv i	10 ft	465 349 2,303	637 1,470 375	5,599
cted 1	8 ft	1165 1125 711 711 711 711 100 40	234	8,580
Reconstructed New in Old Localities.	6 ft	8,353 2,367 2,367 1,619 2,707 2,707	18.335 8.681 23.078	82,611
R_{ℓ}	4 ft	55	100 415 275	1,011
sidervalks Constructed in New Localities.	5 ft 4 ft 6 ft 7 ft 8 ft 10 ft 12 ft 14 ft 4 ft 6 ft 8 ft 10 ft 12 ft 14 ft each Dist.	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	550 10.700 200 360 33.801 380 414 59 036	400 1380 256,403 180 580 597 90 2,004 1,011 82,611 8,580 5,599 4.999 35,786 71,746
Tew Lo	IO ÍL 12	183	414	597
t in A	S ft		3 ²⁰⁰	580
ructed	7 ft			180
Const	6 ft	4.922 19,458 19,458 170 92:577 180 170 35:543 183	10.700 33,801 59 036	256,403
zvalks	4 ft	170 170	360	1380
Side	25 ft			400
No. Districts	IN EACH DIVISION.	First District, North Div'n Second "''''''''''' First '' South '' Second '''''''''''' Third '''''West '''	Fourth " " "	

THE NINTH ANNUAL REPORT OF

Equal to 49 6-10 miles. Last year report, 470 miles = 519 6-10 miles of all kinds.

261,634 feet of walk on new localities.

Of the above, 3.401 ft. are stone.

Grand Total, 471,666 Equal to 89½ miles.

Wedness and

From the foregoing exhibit, it is very evident that property owners are more inclined to construct walks of cheap material which require constant watching, than use that which is imperishable.

The concrete materials of different Patents have been laid in many localities about the city, but as a general thing, more as a test of their suitableness for sidewalk purposes. Some give evidence of durability, while others are proved worthless. No specimen yet laid can claim superiority to, or even equal stone, when cost is taken into consideration.

From past experience, it is clearly certain that more regard must be paid to the material of which sidewalks are constructed, and to accomplish that object with greater certainty, the ordinance ordering the improvement might specify the material, whether stone, concrete, brick, ordinary plank, or plank preserved by some preserving process.

Large preparations are now made in the city for preserving timber for all purposes, and if wood is rendered any less perishable it should be adopted. It costs seven cents per foot more for walks six feet wide, and wider walks in proportion.

All must admit there is no portion of our streets that require greater care and watchfulness than our sidewalks. Better material and mechanism must be more generally used to ensure less bodily injury, and consequently less law suits.

J. L. HANCHETTE,

Supt. of Sidewalks.

BRIDGES.

The new work of the year includes the construction of the new pivot bridge at Indiana street, with its connecting viaduct passing above the tracks of the Chicago and Northwestern Railway; and of new pivot bridges at Adams street, Kinzie street, and at Division street across the North Branch Canal.

With all new bridges to be erected across the South Branch the first step to be taken is to widen the river at the particular point, at much cost and delay, so as to give sufficient width of channel for the passage of vessels. A large share of the gross cost to the city of such bridges is due to the widening of the river.

Below is a list of the movable bridges owned and operated by the city, and crossing the river and connecting branches. As will be seen, the number of the bridges is continually multiplying with the growth of the city, while the slow-moving floatbridges, which at one time were the only ones in use, have almost entirely given place to elevated truss bridges, revolving on a central pivot and pier.

LIST OF BRIDGES.

NAME AND LOCATION.

DESCRIPTION.

Clybourn avenue	North	Brand	chWooden truss pivot bridge.
North avenue	" "	46	
Division street	66	66	Truss pivot bridge, iron chords,
			wooden braces.
· · · · · · · · · · · · · · · · · · ·		66	Canal " " " "
N. Halsted "		66	
Chicago avenue	64	66	Truss pivot bridge, iron chords,
			wooden braces.
Erie street		66	Wooden float bridge.
Indiana "	66	66	
			wooden braces.
Kinzie "	66	66	

THE BOARD OF PUBLIC WORKS.

NAME AND LOCATION. DESCRIPTION.
Rush "
State "
Clark "
Clark Clark
wooden braces.
Wells " " "
Lake " South Branch Truss pivot bridge, iron chords,
wooden braces.
Randolph street " "Wooden truss pivot bridge.
Madison " " "All iron.
Adams " " "Truss pivot bridge, iron chords,
wooden braces.
1 Olk officet,
Twelfth street " " " " "
Eighteenth " " " " " " "
S. Halsted " " " Wooden truss pivot bridge.
Main street
wooden braces.
i uner wooden truss prot bridge.
Reuben "West fork of " " " " "
Archer avenueSouth BranchTruss pivot bridge, iron chords,
wooden braces.
Western "West fork of " " … " " " " "

PUBLIC BUILDINGS.

CITY HALL.—During the year the walls of the new addition were erected, and its stone and brick masonry substantially completed — including the iron and masonry work for the floors. Early in March, however, a serious disaster occurred to the iron and slate roof, then in process of erection. The north half settled and fell, and the portion left on the walls was damaged and insecure, so that the reconstruction of the entire roof on a plan of greater strength than at first, became necessary; the work of completing the building was, in consequence, much delayed.

The fallen portion of the roof was rebuilt in a heavier and stronger manner than at first, and the standing portion correspondingly strengthened, at a cost of \$2,357 — the whole roof being made quite firm and secure.

The city offices, as is generally known, will occupy not only this new building, but the west half of the old Court House. The contracts include the erection of the new part, and the re-modeling of the old. The work on the old building, of course, could not be done until the new addition was finished, and the various city offices transferred to it. As much time has necessarily been consumed in accomplishing this, the entire building, old and new, will not be finished until late in the year.

CITY BRIDEWELL.—At the date of this report, the building constituting the prison proper is finished.

Water is yet to be supplied to it, and the boring for an artesian well for that purpose is in progress, with the expectation that the work may be finished within some three months. The grounds, too, are without any suitable enclosure. The building now finished includes the two prisons for males and females, respectively, rooms for the Warden and officers, the kitchens, bakery, laundry, hospitals for each sex, and a chapel — the entire building being warmed by a steam-heating apparatus, and thoroughly fitted up with all necessary plumbing for washing, bathing, etc.

The importance of this institution warrants the Board in presenting a detailed description of it. It is hoped that its use will work a change in the discipline and management of criminals which will be beneficial to them and to the city.

A general view of the buildings as erected, and of those yet to be built, is submitted with this report.

The location of the new City Bridewell is on that tract of land containing about fifty-eight acres, lying north of the South Branch of the Chicago River, in the E. $\frac{1}{2}$ of S. W. $\frac{1}{4}$ of Sec. 25, T. 39, R. 13, E.

The following description is by the architect, Jno. M. Van Osdel, Esq.:

"The natural surface of the land is from eight to ten feet above the river when at ordinary level, and the grounds are, therefore, susceptible of complete surface drainage to the river. The building fronts east on California street, at a distance of three hundred feet from said street --- the south side of the prison fronting the river at a distance of about four hundred feet. The base of the entire building has an elevation of three feet six inches above the natural surface of the ground, a filling of earth to the depth of three feet six inches having been made in and around the building, and graded off from the walls outward, for the distance of one hundred feet. The earth for this filling was obtained from the bank of the river, as it is contemplated to widen and deepen it. The artificial surface of the ground at the building is therefore about twelve feet above the surface of the river.

It is proposed to employ the convicts in making further excavations of the river bank, and to fill up and grade the courts or yards of the prison and its immediate surroundings, to conform to the filling and grading already done.

The buildings now finished are of brick, with slate roof, plain

and substantial structures, with no costly architectural embellishment, except so far as it appeared necessary to give expression of purpose.

The Warden's house, forty-eight by sixty feet, two stories high, occupies the centre of the east front.

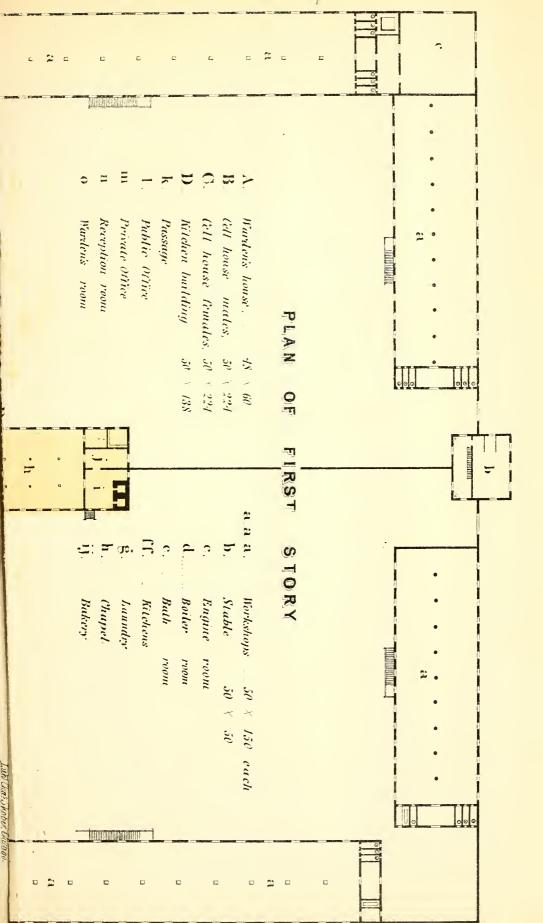
The two cell houses, each fifty by two hundred and twentyfour feet, extend north and south, forming wings, and are attached to the rear of the Warden's house. The prison for males, in the south wing, contains two hundred and eighty-eight cells. That for females, in the north wing, contains two hundred cells. The cells are of the most improved and substantial character, and are constructed entirely of cut-stone work, with no joints or seams, excepting at the angles. The cells are arranged in stories, four stories high, with galleries and stairways of iron. Each cell is ventilated by a separate flue, and has a door of iron gratings, furnished with Newell's prison-door locks. Each range of doors is furnished with a sliding bar, moved by a lever, by means of which all the doors of that range are closed and bolted simultaneously.

The north end of the north cell house is formed in two stories. On the first floor is the boiler and fuel-room, forty-eight feet square. In this room there are set up three large steam . boilers, tanks, pumps, and other apparatus for heating the several buildings. On the first floor there is also a bathing-room, fitted up with six iron bath tubs, wash-bowls, etc. In the second story is the hospital for females, thirty by forty-eight feet, well lighted and ventilated, and several rooms for the Matron and Assistants.

The Warden's house, on the first floor, has the public offices, parlor and reception-room and Warden's living room; on the second floor, the Warden's parlor, Chaplain's room, private office and bed-rooms.

Immediately in rear of the Warden's house, and attached to the rear of the cell houses, is a building fifty feet wide, and one hundred and thirty-eight feet long, two stories high, connected with the Warden's house by corridors, which separate the cell houses.

In the attic, resting on the walls of these corridors, there are four large iron tanks, to be supplied with water from the artesian



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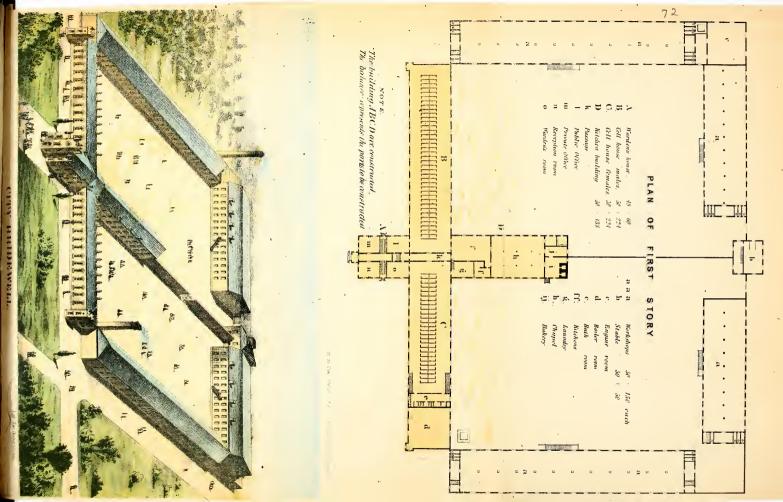
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well, to be forced up by pump in the boiler-room. Pipes lead from these tanks to furnish water to the kitchen, laundry, waterclosets, and bath-rooms throughout.

The kitchen, laundry, bakery, and chapel are arranged on the first floor of the last-mentioned building. The officers' diningrooms and bed-rooms, the hospital for males, the dispensary, etc., are on the second floor.

There are yet to be erected the work-shops, comprising six buildings, fifty by one-hundred and fifty feet each, two stories high, arranged so as to form two enclosures, or courts, two hundred by three hundred feet. These courts will be divided by a wall from the rear of the kitchen building to the stable. The stable will be located centrally, in rear of the principal buildings, and will be fifty feet square, and two stories high. A boiler and engine-room, fifty by seventy-five feet, will be built at the south-west angle of the court, with shafting extending from the engine-room through three of the work-shops. The artesian well now in progress is expected to furnish water for all purposes required."

SCHOOL BUILDINGS.— There were erected during the year, for the use of the Board of Education, the brick primary school buildings on North LaSalle street, Mitchell street, and Monroe street. The four-story brick grammar-school houses on Forest avenue, and Larrabee street were in progress during the year, but were not completed at its close.

POLICE BUILDINGS—For the Board of Police there was built the brick Engine-House and Police Stations at the corner of North avenue and Larrabee street.

PUBLIC PARKS.

The parks of the city under the care of the Board, and for the which any attempt has been made for their improvement or ft ornamentation, are:

Lincoln Park, Washington Park, Union Park, Jefferson Park, Vernon Park, Lake Park, Dearborn Park, Ellis Park.

There are small squares and pieces of land intended for public grounds, which are not included in the above list.

The Board have given much attention to the work of beautifying these various parks, and have prosecuted the work as far as was practicable with the amount of means at their disposal. The largest expenditures during the year have, of course, been made at Lincoln and Union Parks, but much has also been done both at Ellis and Jefferson Parks, in filling and grading and laying out the grounds, and preparing for their full improvement. It is evident that when brought into use, and especially as they become such general places of resort as Lincoln and Union Parks that a large outlay is necessary, merely to keep up the grounds in good condition. The drives and walks, the artificial ponds and various structures, the draining, lighting, and watering; the trees, shrubbery, sodding, and flowers all require constant care and expense, and without such the grounds will speedily become places of disorder and waste.

Among the improvements of the year at Lincoln Park, was the construction of a graveled roadway from the head of North Dearlorn street through the cemetery, and along the lake shore to the park. Much was done in seeding down a large share of the ground to grass, in the planting of large elm and other trees and shrubbery, in the construction and enlargement of the bridges, the erection of suitable buildings and enclosures for the animals, and in expenditures for drainage, for lighting, and for supplying water.

At Union Park, the work of the year included the erection of the large pavilion for a music stand, the construction of the two buntains with their ornaments, the erection of buildings and enclosures for the animals, the introduction of water for the fountains, drinking hydrants, and animals, the planting of deciduous and evergreen trees, the completion of the leveling and seeding of the grounds, etc.

Many very generous donations of rare animals have been made to the city, not only by donors whose homes are within the city, but from those who reside at places quite remote from it. In this way quite interesting collections have been gathered at Lincoln and Union Parks.

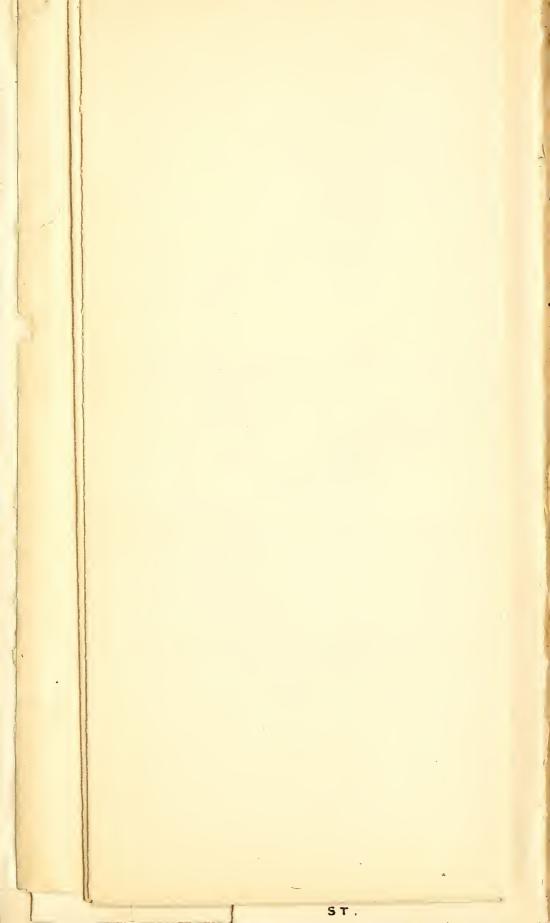
With this report, the Board present plans of Lincoln, Union, Jefferson, Vernon, and Ellis Parks, and as proposed for Lake Park, which it is believed will generally be of interest to the citizens. The plan for the improvement of Lake Park is being carried out as rapidly as the filling progresses.

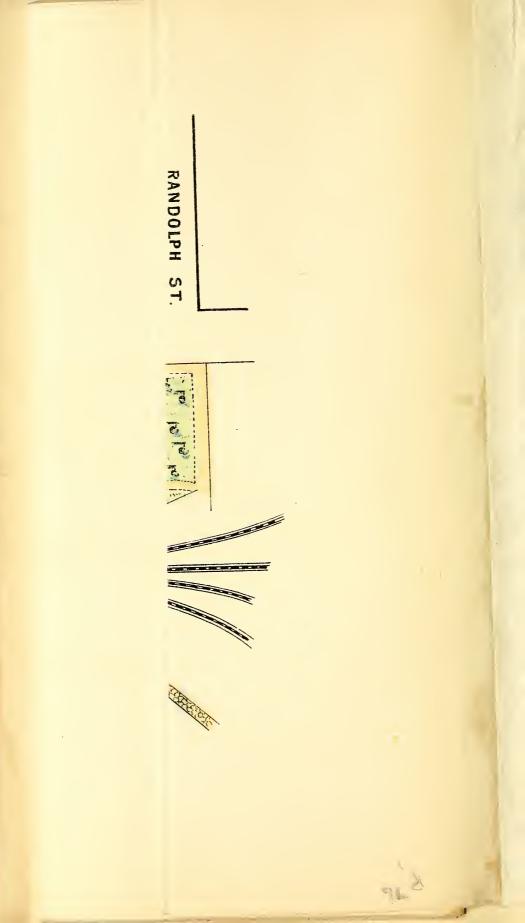
At some of the parks, and at several other public places, the Board have erected water closets and urinals, with a drinking hydrant and water trough for animals. They are found to be of great convenience to the public. The Board recommend that their number be increased.

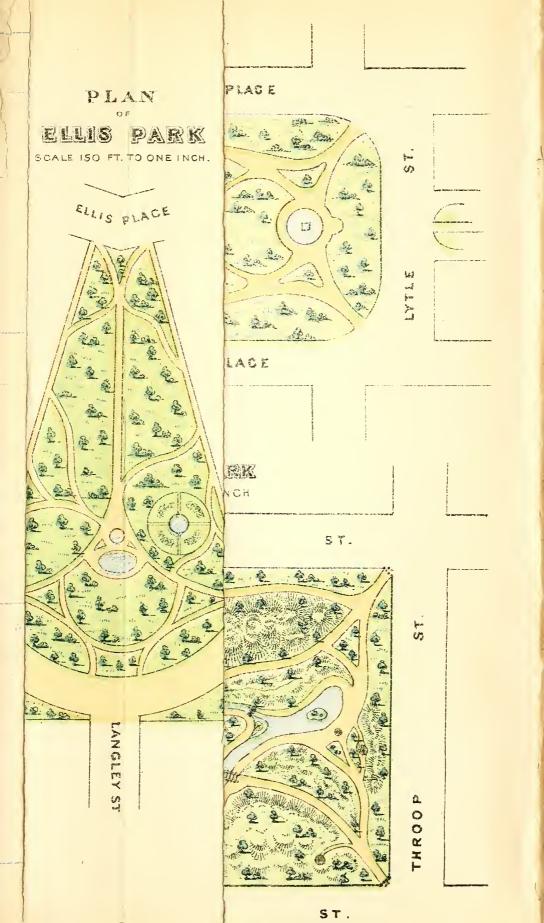
CONCLUSION.

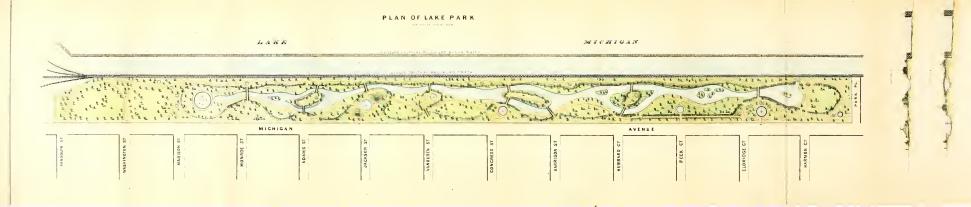
The Board append to their report the annual report of the City Engineer, giving more full information as to many matters briefly referred to by them, and a detailed exhibit of all their financial transactions. To these statements they respectfully invite your attention.

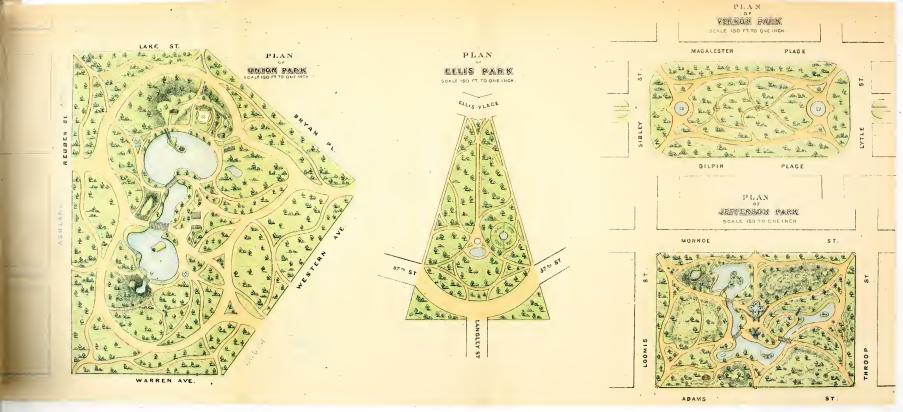
> JOHN MCARTHUR, W. H. CARTER, REDMOND PRINDIVILLE, Board of Public Works.













CITY ENGINEER'S REPORT.

CHICAGO, October 1, 1870.

To the Board of Public Works :

GENTLEMEN: Herewith your Engineer respectfully presents his Report for the year ending March 31, 1870, and as usual the first part of it is the

REPORT OF THE ENGINEER OF PUMPING WORKS.

PUMPING DEPT. WATER WORKS, CHICAGO, April 15, 1870.

E. S. CHESBROUGH, Esq., City Engineer :

SIR: I present herewith my Sixteenth Annual Report of the operations of this department, it being for the year ending March 31, 1870.

The total quantity of water pumped during the year, was 6,801,146,720 gallons, an increase of nearly 1,427,000,000, or about $26\frac{1}{2}$ per cent. over that pumped the previous year.

The daily average during 1868-9 was nearly $14\frac{2}{4}$ million gallons, although during the month of March, the average was about $16\frac{1}{2}$ millions.

During the past year the daily average was $18\frac{2}{3}$ millions, and throughout the month of July it was over $20\frac{1}{2}$ millions.

The following record will show the operations of the works each month during the past year:

BOILERS.
AND
ENGINES
0F
OPERATIONS

Average Pounds of Coal consumed per day.	FOR PUMPING.	41.757	43,068	45,108	51,959	53,699	49,909	45,881	48,023	46,474	49,524	45[687	53,001	574,090	47,840	
Total Pounds of Coal consumed per day	FOR PUMPING.	1.252.720	1,335,130	1,353,260	1,610,740	1,664,680	1,497,280	1,422,310	1,440,710	1,440,460	1,535,260	1,279,300	1, 643, 330	17,475,180	1,456,265	47,877
Average No. of Gallons Water Pumped per day.		17,185,294	16,484,668	17,920,892	20,689,014	20,211,279	19,745,974	17,964,838	18,358,491	18,357,230	17,685,401	18,775,468	20,191,890	223,570,439	18,630,870	
Total No. of Gallons Water Pumped per month.		515,558,836	511,024,720	537,626,771	641,359,425	626,549,674	002, 570, 252 	000,909,988	550,754,730	569,074,149	548,247,452	525,713,115	625,948,628	6,801,146,720	566,762,227	18,633,278
Average No. of Revolutions per day.		17,428	23,784	26,433	25,039	25,721	120,12	24,107	21,042	22,448	23,888	20,203	25,516	284,100	23,675	
Total' Revolutions per month.		522,843	737,327	793,013	776,230	797,368	004,902	101,100	631,272	695,908	740,533	565,669	791,019	8,653,918	721,160	23,709
Average No. of Hours run per mo.		4 00.											3 59	6 574	3 56	
		н. 24.											50 50 50	3 286	1 23	
No. of Hours run per month.		H. M. 720 00	-	720 00					_				743 33	8,758 53	729 54	23 59
No. of Days.	-	30	<u></u>	30	5	100	0.5	01 01	020	50	<u>81</u>	28	31	365	•	
MONTHS.		1869 April	May	June	July	August	September	October	November	December	January, 1870	February	March.	Totals	Gen'l Avg. per Mo.	Gen'l Avg. per Day

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NINTH ANNUAL REPORT OF

THE BOARD OF PUBLIC WORKS.

It will be seen by the foregoing table, that engines have been stopped but 67 minutes during the year, the total running time being $8,758\frac{2}{6}$ hours. The following amount of coal has been received during the past year:

	TONS.	TDS.
On hand April 1, 1869	142	00
Received of Hammondsville Strip Vein	1347	1610
" Willow Bank	7534	880
" Otter Creek	121	100
" Hocking Valley	104	940
" Briar Hill	$5\pm$	200
TONS. LBS.		
Of these amounts there has been used for		
pumping, heating buildings, etc 8737 1180		
For Work Shop, Pipe laying, etc 456 550		
On hand April 1, 1870 110 000		
9303 1730	9303	1730

The expenses due to pumping during the past year were as follows:

Salaries of Engineers	\$ 7,180 00
" Firemen and others	8,186 27
8737_{2000}^{1180} tons of coal at an average of $\$6_{100}^{93}$	60,551 40
$588\frac{3}{4}$ gallons of oil	853 99
826 pounds of tallow	106 08
Cotton waste	$185 \ 75$
Packing	96 34
Small stores	140 89
Gas for lighting Works	708 07
Repairs on Engines and Boilers	1,639 65
Total	\$79,648 44
Cost of delivering water per million gallons	\$11 71

The following tables will show the quantity of water pumped each month, for the past twelve years; also the total quantity pumped each year, together with the daily and annual increase, etc.

TABLE SHOWING QUANTITY OF WATER PUMPED EACH MONTH, FROM JAN, 1, 1858, TO APRIL 1, 1870.

80

		1869-70.	$\begin{array}{c} 515,558,836\\ 511,024,720\\ 537,626,771\\ 637,626,771\\ 641,359,425\\ 626,549,674\\ 539,379,232\\ 556,909,988\\ 556,7754,730\\ 559,074,149\\ 556,074,149\\ 556,074,149\\ 556,774,730\\ 569,074,149\\ 568,247,452\\ 556,713,115\\ 625,948628\\ 625,948628\\ 6,801,146,720\\ 6,801,146,720\\ \end{array}$
, 1863.	169,900,255 158,108,450 159,930,404 Hereafter the year comminces on the first day of April. 487,939,109	1868-9.	376,430,083 402,382,583 422,909,052 505,513,404 482,160,940 482,160,940 447,213,481 456,278,707 430,887,264 456,278,704 456,278,704 508,848,250 508,848,250 508,848,250 508,848,250
1862.	$\begin{array}{c} 151.971.047\\ 151.971.047\\ 168.931.783\\ 198.937.943\\ 170.081.570\\ 181.483.052\\ 181.483.052\\ 181.483.052\\ 186.902.888\\ 199.045.045\\ 187.002.729\\ 175.006.027\\ 175.006.027\\ 2217.279.739\\ \end{array}$	1867-8.	281 904,710 282,813,313 318,358,925 363,322,276 375,441,736 375,441,736 377,585,973 377,585,973 377,585,973 378,710,850 380,912,940 380,912,940 380,912,940 380,912,930 380,108,511 4,231,791,659
1861.	$\begin{array}{c} 137,651,918\\ 142,071,067\\ 142,071,067\\ 135,576,447\\ 135,576,447\\ 155,996,352\\ 157,996,352\\ 147,182,793\\ 168,602,494\\ 155,910,186\\ 149,352\\ 147,182,793\\ 145,361,166\\ 149,352\\ 145,361,166\\ 145,361,373\\ 145,361,373\\ 1767,154,639\\ 1,767,154,639\\ \end{array}$	1866-7.	$\begin{array}{c} 260,207,901\\ 278,006,304\\ 271,415,472\\ 310,687,104\\ 299,800,032\\ 299,800,032\\ 269,800,032\\ 269,802\\ 269,802\\ 269,030\\ 521\\ 31,165,784\\ 269,036,652\\ 269,036,652\\ 31,165,760,609\\ \end{array}$
1860.	$\begin{array}{c} 132.284.454\\ 130.800.720\\ 150.331.650\\ 150.331.650\\ 132.930.546\\ 141.171.078\\ 141.171.078\\ 148.197.024\\ 166.394.640\\ 152.427.690\\ 152.427.690\\ 152.427.690\\ 152.427.690\\ 152.427.690\\ 150.773.075\\ 130.773.075\\ 130.773.075\\ 130.775\\ 130.775.075\\ 130.755\\ 130.755\\$	1865-6.	$\begin{array}{c} 189,131,463\\ 212,575,920\\ 2249,935,040\\ 255,040\\ 255,041\\ 255,041\\ 0355,040\\ 255,041\\ 032,040\\ 255,040\\ 255,040\\ 255,040\\ 246,776\\ 8236\\ 844,455\\ 227,597,778\\ 236,777,817\\ 349\\ 2,777,817\\ 349\\ \end{array}$
1859.	$\begin{array}{c} 106,905,665\\ 106,905,665\\ 108,415,983\\ 89,994,235\\ 116,007,263\\ 113,098,416\\ 133,800,336\\ 133,800,336\\ 133,5847\\ 141,527,040\\ 123,236,556\\ 131,735,847\\ 141,527,040\\ 123,2653,139\\ 122,653,139\\ 1,415,147,910\\ \end{array}$	1864–5.	$\begin{array}{c} 178,013,170\\ 201,471,216\\ 220,814576\\ 223,227,723\\ 257,109,360\\ 237,157,038\\ 191,542,516\\ 101,542,516\\ 101,542,516\\ 101,542,516\\ 101,542,516\\ 101,542,516\\ 101,542,516\\ 102,369,360\\ 223,339,018\\ 209,569,260\\ 223,339,218\\ \end{array}$
1858.	$\begin{array}{c} 81,538,179\\ 69,426,515\\ 82,677,463\\ 82,677,463\\ 82,677,463\\ 82,670,920\\ 82,279,920\\ 90,211,505\\ 101,670,736\\ 107,176,652\\ 101,670,736\\ 101,646,605\\ 101,646,605\\ 101,646,605\\ 88,534,540\\ 98,316,722\\ 101,946,605\\ 98,316,723\\ 101,646,605\\ 101,66,52\\$	1863-4	$\begin{array}{c} 173,519,952\\ 193,119,348\\ 193,119,348\\ 194,255,701\\ 29,9,332,677\\ 217,561,920\\ 217,561,920\\ 217,229,652\\ 176,132,600\\ 176,132,600\\ 199,592,696\\ 209,884,992\\ 176,088,647\\ 176,088,647\\ 183,712,268\\ 2336,108,454\\ \end{array}$
MONTHS.	January February March April July September October December	MONTHS.	A pril. May. June. Juny. Jone. September. November. December. February. Total.

NINTH ANNUAL REPORT OF

TABLE SHOWING TOTAL QUANTITY OF WATER PUMPED, TOGETHER WITH ANNUAL

AND DAILY INCREASE.

ALSO THE GREATEST DAUAY AVERAGE FOR A SINGLE MONTH FOR THE FOLLOWING YEARS :

Annual Increase. Daily Quantity Average Daily GREATEST DAILY AVERAGE. Pumped.	GALLONS. GALLONS. GALLONS. MONTH. GALLONS.	2,091,413 Sentember 3,617,818	3,877,119 885,706 Octoher	4,703,525 826,406 July	4,841,520 137,995 August	6,074,739 $1,233,219$	6,400 298 325,559 January	6,913,259 512,961 August	7 610,459 697 200 Sentember	8,681,536 1,071,077 July	11,563,273 2,880,737 March.	14,724,999 $3.162,726$	18,633,278 3,908,279 July	A75 600 105 0 001 595 1 900 100
	GALLO										2,880,7	3.162.7	3,908,5	
Average Daily Quantit Pumped.	GALLONS.	2,991,413	3,877,119	4,703,525	4,841,520	6,074,739	6,400298	6,913,259	7,610,459	8,681,536	11,569,273	14,724,999	18,633,278	201 100 0
Annual Increase.	GALLONS.		323,282,453	301,338 642	50,868,187	450,125050	118,128,715	187,230,764	254,478,131	390~943,260	1,063,031,050	1,142.832.917	1,426,522,144	175 600 105
Total Quantity Pumped.	GALLONS.	1,091,865,459	1.415,147,910	1,716,786,552	1,767,154,689	2,217,279 739	2,336,108.454	2,523,339,218	2,777,817,349	3,168,760,609	4,231,791,659	5,374,624,576	6,801,146,720	2 951 818 578
YEARS.		1858	1060	1000.	1001	1003	1003	1804	130:0	1800.	1807	1808.	1809	Average for 12 vears.

THE BOARD OF PUBLIC WORKS.

ENGINES.	Hours and Minutes.	Total Revolutions.	Total Gallons Water Pumped.
² 53 ² 57 ² 67	н. м. 5,381 6 3,634 16 5,231 33	3,095,045 2,111,406 3,447,467	$1,605,709,340\\1,722,907,295\\3,472,530,085$
Totals	14,246 55	8,653,918	6,801,146,720

TABULAR STATEMENT OF OPERATIONS OF EACH ENGINE.

SHOPS.

During the year there have been manufactured of new fire hydrants 292, and of new stop valves, 123, viz:

37	4 inch,	11	12 inch,
36	6 inch,	4	16 inch,
27	8 inch,	8	24 inch.

In addition to these, ten new drinking hydrants have been made, and the usual amount of repairing for streets, bridges and other city departments.

New tools, fixtures and patterns have been added	
to the shop, costing	\$ 819.00
Value of tools, etc., previously reported	4,300.00
Total cost of tools	\$5,119.00
Cost of coal, oil, operating shop, etc \$1,194.28	
Superintendence750.00	
Total \$1,944.28	

Deducting this expense, together with 8 per cent. interest on total cost of tools, and 4 per cent. depreciation of same, and estimating the value of work done at considerably less than current prices, the nominal net earnings of the shop for the year amounts to \$5,853.74. There are remaining on hand of

Ne	ЭW	Fire Hydrants	55
		Four inch Valves	
6	6	Six inch "	5
		Eight inch "	
6	6	Twelve inch "	3
6	6	Twenty-four inch Valves	4

The value of these, together with raw material on hand, including finished wood work, lumber, etc., is.....\$6,649.11Add value of tools.....5,119.00

Total value of stock in shop..... \$11,768.11

During the year a portion of the patterns belonging to the city were destroyed by fire, at the foundry of N. S. Bouton & Co.; they have been replaced by new ones.

CONDITION OF THE WORKS.

No extensive repairs have been made during the past year. The engines are in as good order as can be expected, in view of their almost constant running.

The principal expenditure for repairs has been upon the boilers. One of those in the north wing has been in use over seventeen years; its general condition is such that it should be replaced by a new one, as we require all the boiler capacity we have, which should be of a reliable character.

The two south boilers have been in use thirteen years; they are at present in fair order, and may be relied upon until their removal to make way for the boilers to accompany the proposed new engine.

The city has not been wholly deprived of water during the year, although by the action of the ice at the Lake Crib, on the morning of the 24th of December last, the supply was seriously threatened; and the disaster to the river pipe, at Chicago avenue crossing, on the 18th of August following, rendered the supply to the West Division quite inadequate to the public wants. Some improvements of a permanent character have been made in the engine room, and at other points. The fronts of engines 53 and 57 have been fitted with new iron floor-plates and wheels for operating throttle and other valves; also brass hand-rail extending around the working parts.

The old inlet-pipe has been filled with masonry several feet from its connection with the pump-well, and a new waste-pipe connecting all the air-pumps with it, was put in in June last.

Nearly all the work on buildings, left unfinished at date of last report, has been completed during the year; such as stone steps at main entrance, plastering walls, extending gallery, and pointing outside of walls.

The tower has been plastered and blocked off in the vestibule, the cupola finished, and an additional flight of iron steps put in, leading thereto. Nothing has been done towards the proposed · improvement of the surrounding ground, which is far from being in harmony with the character of the buildings.

The large and constantly increasing consumption of water is such that we shall soon reach the limit of the present means of supply. During 1868–9 the daily average was about $14\frac{3}{4}$ million gallons. On page 60, last annual report, it was predicted that the daily average for the present year would reach 20,000,000; and during the hot season 25,000,000 gallons would be required. The delay in issuing this report enables me to say that even this high estimate falls short of the truth, for during the first three months of the present year, the daily average has reached nearly 21,000,000; one week of this time the daily average was over 23,000,000 gallons, and for certain days, the quantity pumped was over 28,000,000. The constant extension of pipe, and new attachments thereto, will of course have a tendency to increase these figures.

To meet the increase as here anticipated, the Commissioners gave orders for the preparation of plans and specifications for additional pumping machinery, with a capacity to deliver thirtysix million gallons daily.

Drawings and specifications for the machinery have accordingly been issued, and proposals invited for its construction, and it is hoped that the next annual report may announce its near completion; it will be fully described hereafter. The south wing and pump-well, originally designed for this machinery, are ready to receive it. The construction of foundations, and the extension of branch of main tunnel to the well, will require considerable time, and should be commenced as soon as may be practicable. The whole of the work here alluded to should be carried forward with the utmost dispatch, for until its completion, the present machinery will be closely pressed to meet the demand upon it.

I regret to report the occurrence of an accident at these works which resulted fatally. On the 20th of May last, Mr. Richard Coote, while temporarily engaged in making some measurements in the building, was struck by the engine crank, and so severely injured that he died in consequence on the 31st of the same month.

The deceased was for a number of years connected with the corps of civil engineers, under the Board of Public Works, and was regarded as a gentleman of fine attainments in his profession and highly esteemed by his associates, as well as by those under whom he served.

The unfortunate occurrence is regretted by none more than those connected with this department.

Respectfully,

DE WITT C. CREGIER,

Engineer.

CONSUMPTION.

Mr. Cregier's report shows that rapid increase in the consumption of water continues to be not only enormous, but, considering the pumping power at present available, truly alarming. The new engine recently contracted for, cannot be got into operation in less than a year.

Already the average consumption has reached the guaranteed capacity of the two small or old engines. The large and newest one must sometimes be laid up for repairs, and then the two small ones will be insufficient to meet the extra demand of very hot or very cold weather.

It should be stated here, that the reported number of gallons actually pumped has necessarily been obtained from the dimensions of the pumps, and the registered number of revolutions. As all large pump valves are known to leak somewhat, the tabular statement probably exceeds, more or less, the actual rates; but this does not affect the comparison of one year with another. A large proportion of the water pumped is wasted, and if there is any practicable way of preventing it, the threatened short supply occasionally, for a year to come, may be avoided.

The average daily consumption the past year was not less than seventy gallons for each inhabitant. During the past summer, the average has not been less than eighty, and there were days on which it would have reached one hundred, had it been possible to meet the demand with the present pumping machinery. This shows that the whole city demands, at this date, in very warm and dry weather, 30,000,000 gallons for consumption and waste. It may be said that an occasional short supply would be a good thing to teach the citizens not to waste. Unfortunately, this would not meet the case, because the least wasteful are those who live in the out-lying districts, yet they are the great sufferers.

Mr. Cregier's report shows that the average daily consumption has more than doubled during the last three years. There are satisfactory reasons for a large part of this increase, in the increased number of water takers, but not sufficient to account for the whole of it. So far all estimates of consumption for this city, based upon previous experience, however extravagant they may have appeared, have been more than realized. Of course a change must come sooner or later, but who can tell when?

Great pains has been taken to ascertain the cause of the increased consumption here, and it has been clearly traced to a reckless waste which is not confined to any locality. At first it was hoped that the excessive demand for water might be accounted for by the discovery of one or more large leaks from the water mains into the sewers. These were examined in central business portions of the city, and the discharge from them by night and day carefully measured, but the only thing discovered was an immoderate waste of water every where. Extensive examinations were then made, under the direction of Mr. Woodford, the Assessor, on the private premises of many of the water takers, and enough was ascertained to account for the excessive demand on the pumping works.

Many persons waste from their taps from carelessness, others for the sake of having the water always cool and fresh the instant they wish to drink, others let their fixtures get out of order, and are too careless or penurious to have them repaired.

Experience shows that much plumbing done in past years is very defective. The use of sprinkling hose at forbidden hours, is a large and increasing cause of waste.

If those who needlessly waste simply caused the city so much more expense on their account, the effect, though quite objectionable pecuniarily, would be of much less importance than it now is, for it is impossible, in certain extreme conditions of the weather, to supply the outlying districts of the city at all. Many families and various industries are thus deprived of an absolute necessity, and exposed, in case of fire, to immense loss. As a very large amount of waste is caused by defective water closets and fixtures, it is suggested that *earth closets* might be advantageously used in those places where ordinary ones are found to be injured by frost or neglect. The prospect of success in this direction, judging from the testimony of competent persons in New Orleans and other cities, might be determined by a moderate experiment in this city.

When it is considered that all waste of water causes not only an increase of annual expenditures, but necessitates enlargements and extensions of the water works earlier than would otherwise be necessary, it will be seen that every citizen hereafter will have a direct interest in preventing this waste.

INLET BASIN.

It is remarkable how long the old breakwater, in front of this basin, continues to protect it. The piles are more decayed than ever, but still stand. Nothing more can be said of the necessities of this basin, than was said last year. As usual, a dredging machine was kept in it all winter, to assist in preserving an open channel to the lake, in case any accident should happen to the tunnel or the crib. A portion of the sand that had accumulated in the basin during the previous season, was dredged out at the beginning of winter.

DISTRIBUTING PIPES.

There were laid during the year ending March 31, 1870, the following main and distributing pipes, viz:

SOUTH DIVISION.

		Diame-	Length
ON WHAT STREET.	BETWEEN WHAT STREETS.	ter in Inches.	in Feet.
		inches.	Feet.
A man al al ant		4	0.490
Arnold st.	Twenty-seventh and Thirty-first	4	2,420
Alley across Dr'bn.	Monroe and Jackson st	4	300
Alley " 18th	State and Burnside	4	100
Alley N. from "	Blackwell and Wentworth av	4	100
Burnside st	Twenty fifth and Twenty sixth	4	680
Burnside st	Archer av. and North	6	130
Blackwell st	Eighteenth and South	6	100
Butterfield st	Thirty-first and Thirty-third	4	1,060
Bryant st	Vincennes road and West	Â	704
Buddan st.	Archer av. and South.	6	100
		4	150
Bushnell st	• • • • • • • • • • • • • • • • • • • •	1 -	
Butler st		6	160
Cottage Grove av	Douglas place and South	6	50
Calumet av	Twenty first and North	6	154
Cottage place	Thirty first and South	4	620
Clark st	into Ě. wing of City Hall	4	125
Clark st		6	141
Cologne st	Main and Quarry sts.	6	850
Dearborn st	Madison and Jackson sts	Ğ.	1,200
Fightoonth st	Clark and Butterfield sts.	6	200
Eighteenth st		4	320
Eighteenth st	State and Burnside sts	8	414
Fourteenth st	Wabash and Michigan avs		
Gano st	South Park av. and Calumet av	4	360
Indiana av	Twenty-seventh and Thirtieth sts	6	830
La Salle st	into W. wing of City Hall	6	130
Lake av	Douglas place and Wahpanseh av	4	1,400
McGregor st	Wentworth av. and Wallace st	4	2,670
Madison st	Market st. and the river	4	137
Main st	end of pipe and Thirty-first st	6	260
Market st	at intersection of Madison st	8	300
	" Randolph st		180
Market st		6	650
Nineteenth st	Purple and Wentworth av		
Prairie av	Thirty-first and Thirty-third	6	1,400
Prairie av	Cottage Grove av. and Twenty-third st		436
Purple st	Twentieth and Twenty-first	6	444
Polk st	Wells st. and the river	4	400
South Water st	Michigan av. and East st	6	414
South Park av	Twenty-second and Twenty-fourth	6	1,282
	6		
	Carry forward		21,371

NINTH ANNUAL REPORT OF

SOUTH DIVISION.-(CONTINUED.)

		Diame-	Length
ON WHAT STREET.	BETWEEN WHAT STREETS.	ter in Inches.	in Feet.
		Inches.	
	Brought forward		21,371
South Park av	Twenty-fifth and Twenty-sixth sts	6	670
Stewart av	at intersection of Archer av	8	190
Twelfth st		16	168
	Wabash av. and State st	$\overline{12}$	630
Twenty-fourth st.	State st. and east of Wabash av		560
Twenty-fourth st			125
	st interpretion of Pouth Durk or	$\frac{4}{4}$	200
Twenty fifth st		6	140
Twenty-first st	Calumet av	6	172
	Clark and Burnside st	6	600
Thirty-third st	Cottage Grove av. and East	6	604
Thirty first st	Butterfield and Arnold sts	8	570
	State and Wabash av	8	344
Thirly first st.	Cottage place and Cottage Grove av	6	306
Twenty ninth st	Butterfield st. and Wentworth av	Ğ	711
Twenty nighth st	Michigan and Wabash avs	4	390
Thistopath of	at intersection of Wabash av	4	210
		$\frac{4}{6}$	
Vincennes road	Douglas place and South		2,300
Wabash av	Twenty second and Thirty-first sts	24	4,600
Wabashav	Thirty-second and South	6	374
	Eighteenth and South	6	100
Wentworth av	Twenty-sixth and Twenty-ninth sts	6	1,150
Wahpanseh av	Vincennes road and Langley st	6	414
I I I I I I I I I I I I I I I I I I I			
			36,899
	Hydrants		1,596
	Total		38,495
	I UUU10		00,100

WEST DIVISION.

ON WHAT STREET.	BETWEEN WHAT STREETS.	Diame- ter in Inches.	Length in Feet.
Aberdeen st	Polk and Gurley sts	4	470
Adams st	end of pipe and Reuben	6	1,000
Adams st	Honore and Paulina sts	6	1,216
	Lake and Madison sts	8	1,520
Augusta st	Milwaukee av. and Will st	6	640
Ann st		6	240
	Adams and Kinzie sts	4	808
Bryan place	Lake and South	6	200
Blair st	Canalport av. and South	4	100
Canal st.	Twelfth and Judd sts	6	300
Canal st	at intersection of Washington st	4	200
	Sixteenth and Evans sts	6	616
Centre av	Fourth and South	6	124
Centre av	Harrison and William sts	6	620
Centre av	Chicago av. and North	8	150
Canalport av	John and W. of Brown st	6	700
	Forward		8,904

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WEST DIVISION.-(CONTINUED.)

		Diame-	Length
ON WHAT STREET.	BETWEEN WHAT STREETS.	ter in	in
		Inches.	Feet.
	Brought forward		8,904
Curtis st	Third and Fourth sts	4	400
Curtis st	Kinzie and Fulton sts	6	820
Chicago av	Carpenter and W. of Reuben st	16	3,900
Chicago av	Paulina and Wood sts	6	780
Carpenter st	Chicago av. and North	8	40
Carpenter st	Fulton and Carroll sts	6	400
Desplaines st	Lake and Kinzie sts	6	980
Dunn st	Kinzie and Northward	6	100
Eleventh st	Morgan and Sholto sts	6	570
English st	Centre av. and May st	4	420
English st	Halsted and Canalport av	4	466
Evans st	" and John sts	6	200
Eighteenth st	Jefferson and Seward sts	6	470
Elston road	Wabansia and North av	6	1,030
Elston road	end of pipe and Armitage road	4	300
Elston road		6	1,064
Elizabeth st	Randolph and Washington sts	6	440
Fisk st	Sixteenth and Southward	6	60
Forquer st	Canal and East	6	210
Fourth st	Noble and Centre av	6	1,422
Fourth st	Reuben and East	8	140
Fulton st	Robey and Lincoln sts	4	616
Green st	Monroe and Harrison sts	12	2,290
Green st	L4ke and South	4	70
Henry st	Blue Island av. and Throop st	4	480
Henry st	Waller and Centre av	4	1,350
Hubbard st	Robey and Oakley sts	6	2,270
Hubbard st	Desplaines and Union sts	6	370
Hamilton st	end of pipe and Southward	4	360
Hamilton st	Jackson and North	4	40
Harrison st	Reuben and Desplaines sts	12	6,190
Halsted st	Meagher and Sixteenth sts	4	350
Halsted st	Sixteenth and Southward	6	220
Halsted st	" Northward	4	398
Hermitage av	Jackson and Southward	6	236
Indiana st	Desplaines and East	6	120
Judd st	Canal and East.	6	110
John place	Halsted and West.	4	590
Jackson st	at intersection of Green st	8	260
Jackson st	Aberdeen and Centre av	6	650
Jackson st	Hoyne and Leavitt sts	4	514
	Lincoln and Hermitage av	6	1,050
Jackson st	Robey and Seeley sts	6	336
	Wright and Maxwell sts	6	870
	at intersection of Reuben st	12	117
Kansas st	Loomis and Luffin sis	4	622
	Harrison and South	12	1,774
	at intersection of Madison st.		190
	Western av. and Valentine st	$\begin{bmatrix} 6\\ c \end{bmatrix}$	850
Loomis st	Adams and Northward	6	134
	Forward		46,493

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NINTH ANNUAL REPORT OF

WEST DIVISION.-(CONTINUED.)

		Diame-	Length
ON WHAT STREET.	BETWEEN WHAT STREETS.	ter in	in
	December 1	Inches.	Feet.
Tingala at	Brought forward	0	46,493
Lincoln st	Kinzie and Hubbard sts	6	370
Luke st	Halsted and Union sts.	4	450
Madison st	Western av. and Staunton st	8	600
Maxwell st	Newberry and Waller sts	6	1,090
May st	Hubbard and Erie sts	6	1,250
Margaret st	Henry and Catherine sts	6	280
Monroe st	Robey and Lincoln sts	4	670
Newberry st	Twelfth and Maxwell sts	4	430
Noble st	Bradley and Chicago av	8	3,130
O'Neill st	Halsted st. and Westward	4	290
Oakley st	Lake and Fulton sts	6	580
Paulina st	Mitchell and Sixteenth st	6	1,340
Paulina st.	Waba, sia av. and South	6	200
Paulina st	Monroe and Adams st	6	556
Peoria st	Lake and South	4	240
Quincy st	Clinton and Jefferson sts	$\overline{6}$	400
Reuben st	Bauwans and Blackhawk sts	Ğ	690
Reuben st	Warren and Washington sts	Ğ	260
Reuben st	Lake and Augusta sts	24	5,065
Reuben st	Cornelia and Division sts	$\tilde{6}$	1,530
Reuben st	Chicago av. and First st.	6	320
Reuben st.	Indiana and Fourth sts	6	500
	Lake st. and N. of Kinzie st.	6	
Reuben st	Contro or and Morgan st	-	1,000
Rebecca st	Centre av. and Morgan st	4	1,550
Ruble st	Canalport av and North	6	63
Redfield st	Elston road and McHenry st	4	750
Sixteenth st	Centre av. and Nutt st.	8	1,214
Sixteenth st	Morgan and Union sts	8	1,620
String st	Canalport av. and North	6	100
Sangamon st	Harrison and Tyler sts	4	430
Sangamon st	Randolph and Washington sts	6	460
Sangamon st	Lake and Fulton sts	6	440
School st	at intersection of Desplaines st	4	150
Seward st	Canalport av. and Southward	4	114
School st	at intersection of Clinton st	4	150
School st	" Jefferson st	4	150
School st	Canal st. and Westward	4	216
Sebor st	" " Eastward	4	200
St. Johns place	Lake st. and North	4	100
Sheldon st		6 -	200
Sheldon st	Madison and Washington sts	6	504
		4	400
Stewart av	at intersection of Eighteenth st	$\tilde{6}$	200
	Washington and North-east	Ğ	175
Twelfth st		16	5,486
Trustee st		4	400
	Halsted and Jefferson sts.	6	1,125
Throop st	Harrison and Tyler sts	8	290
Throop st		6	134
		6	640
Tyler st		0	0+0
	Forward		81 005
	. I UI WAIU		. 01,000

WEST DIVISION .- (CONTINUED.)

Union st Van Buren st Wade st Walsh st Washington st Walnut st Wabansia av Western av Wright st Winchester st	BETWEEN WHAT STREETS. Brought forward. Canalport av. and Eng'ish st. to connect at Twelfth st. Morgan and Sangamon sts. Elston road and N. W. R. R. track. Halsted and Westward Canal st. and the river. Hoyne and Western av. Elston road and Ridgeville road. Lake and Kinzie sts. Wabansia av. and Rawson st. Monroe and Adams sts. to connect at Washington.	Diame- ter in Inches. 6 8 6 4 6 4 6 4 4 6 8 4 4 4 4 4	Length in Fert. 84,995 490 14 260 614 87 500 2,040 1,800 1,470 700 530 180
	Hydrants		93,680 3,724 97,404

NORTH DIVISION.

ON WHAT STREET.	BETWEEN WHAT STREETS.	Diame-	Length
ON WHAT STREET.	BETWEEN WHAT STREETS.	ter in Inches,	in Feet.
		Inches.	reet.
Alley	West of Larrabee S.W. from Clybourn av	4	100
Burton place	at intersection of Dearborn st	4	180
Burton place	Clark st. and Eastward	$\overline{6}$	100
Block st	North av. and Linden st	4	670
Belden av	Larrabee and Orchard st	4	600
Clybourn av	Halsted and North av	Ĝ	550
Clybourn av	end of pipe and Fullerton av	Ğ	390
Centre st	Hurlbut and Mohawk st	Ğ	350
Centre st	Larrabee and Howe sts	6	350
Church st	Blackhawk and North av	4	778
	Dearborn and Eastward	4	140
Chesnut st		6	375
Chicago av	in Water Pipe Tunnel	24	362
Division st	in Water Pipe Tunnel	24	340
	Kinzie and North Water sts	6	316
	end of pipe and North av	4	350
Deuton et	Willow and South	4	172
Dayton st	Clay and North	4	262
Fright	Pine and West.		
	at intersection of Dearborn st	4	100
Elm st			240
Engine House(Into)	at City Water Works	4	70
r rankiin st	Sophia and Asylum place	4	700
Fremont st	Willow and Clav sts.	6	870
Grant place	Clark and La Salle sts.	4	420
	Pine and Westward.	6	100
Hammond st	Wisconsin and Menominee sts	4	675
	Forward		9,560
• -			,300

NINTH ANNUAL REPORT OF

NORTH DIVISION.--(CONTINUED.)

ON WHAT STREET.	BETWEEN WHAT STREETS.	Diame- ter in	Length
ON WHAT STREET.	DETWEEN WHAT STREETS.	Inches.	in Feet.
	Brought forward		9,560
Halsted st	Rees and Blackhawk sts.	6	400
Halsted st	North av. and Clybourn av	6	400
Hills st	Wells and Eastward.	4	60
Hull st	Lincoln and Menominee sts.	4	640
Illinois st	Franklin and Kingsbury sts	$\frac{4}{6}$	1,120
Kroger st.	Sheffield av. and Northwest	4	690
Linden st	Church and Wells sts	4	1,386
Linden st	at intersection of La Salle	4	1,300
Labar st	Division and Larrabee sts	4	780
La Salle st	North av. and Clark st.	6	820
Maple st	Dearborn and Westward	4	140
Menominee st	Church and Sedgwick sts	4	50
North av	Hurlbut and E. of Clark st	8	2,790
North av	at intersection of Dearborn st	6	2,150
Oak st	at intersection of Dearborn st	4	150
	Market and Townsend sts	4 6	775
Oak st	Rush and Larrabee sts.	24	3,788
Oak st	Clybourn and North avs	4	850
Orchard st		6	300
Pine st.	Hinsdale and Whitney sts	6	120
Pine st.	Chicago av. and Northward	24	
Rush st	Oak and Pearson sts	6	$1,154 \\ 290$
Sophia st	Clark and Franklin sts	6	
Schiller st		6	260
Schiller st	La Salle and E. of Clark	-	390
Scott st.	Astor place and Lake Michigan	4	330
Sheffield av	Clybourn av. to Clay st	${6 \atop 4}$	1,003
St. S. of Blackhawk	from Clybourn av. Southwest	44	$100 \\ 96$
" from Division S.	Franklin and Market sts	4 4	
White st	Dearborn and Eastward	$\frac{4}{6}$	364
White st	E of Wells and Franklin sts	0 4	600
Whitney st	end of pipe and Pine st		150
Wendel st	Wells and Eastward	6	60
Willow st	Dayton and Fremont sts	4	482
Weed st	Clybourn av. and North	4	100
			30,653
	Hydrants	• • • • • •	952
	Total		21 605
	1 () ta1	• • • • • •	51,005

The whole length of pipe laid in the city during the year, was 167,504 feet— $31\frac{3824}{5280}$ miles, about 2,436 feet of which was on streets in which the increased demand for water rendered it necessary to take up the smaller and lay down larger sized pipe.

The total length of pipe laid in the city to this date, as nearly as can be ascertained, is as follows, viz.:

						FEET.
28	incl	n cast iron	main p	ipe	• • • • • • • • • • • • • • • •	160
24	"	66	"			38,231
16	"	66	66	• •	• • • • • • • • • • • • • • • • • • • •	24,526
12	"	66	66			21,675
30	"	wrought i	ron rive	er pip	e, State st	280
24	66	66		66	Rush st	530
$2\pm$	"	66		"	T welfth st	258
12	"	66		"	Adams st	176
9	"	66		66	and syphon pipe	
		at Archer	av		••••••	90
10	66				ipe	7,862
8	"	66	"	(/ 1	· · · · · · · · · · · · · · · · · · ·	126,497
6	"	66	66		"	448,827
4	"	"	66		"	569,005
3	"	"	66		"	28,566

or 239 miles and 4,763 feet.

The length of 24 inch mains laid in the North Division, and the northern portion of the West Division, has at this date already caused a great improvement in the supply of water to those parts of the city. It is hoped that before the close of the present year there will be a continuous line of 24 inch pipe from the pumping works, along Rush, Oak, Crosby, Division and Reuben streets, to Harrison, with important connections.

On the 18th of August, 1869, the 24 inch river pipe, on the lower side of the Chicago avenue bridge, was struck by an anchor, one fluke of which remained in the pipe, and so badly injured it that it was found best to shut off the water from it altogether, until it could be repaired. Occurring as it did, in a very warm and dry time, and when the State street river pipe was shut off to repair an injury by the driving of a pile, this accident caused more inconvenience and anxiety than had been known before in connection with the water works for ten years. All of the city suffered from a shorter supply than usual, and a

1,266,683

large portion had none at all during the heat of the day, so that if a serious fire had occurred, the consequences might have been deplorable in the extreme. Fortunately, by the aid of divers and a dredge, the anchor was taken out, and in about sixty hours altogether from the time the accident occurred, the regular supply of water to the West Division was restored.

The experience gained up to this time, in the use of wrought iron inverted syphon pipes for conveying water across the river and its branches, led the Board to determine, not only to put no more in, but eventually to replace existing ones with cast iron pipes laid through brick lined tunnels. It is expected that five of these will be completed before the end of the present year, viz:

Under the North Branch, at Chicago avenue.

Under the canal, on Division street.

Under North Branch, "

Under South Branch, at Adams street, and

Under the south fork of South Branch, on Archer av.

QUALITY OF THE WATER.

This has continued to be quite as good as during the year before. A careful record of the temperature of the water at the crib was kept during the year, and it shows a variation of forty degrees between winter and summer, in that which was taken from within the cylinder.

These observations, together with previous experience, settle beyond all doubt, that we must expect, during protracted seasons of very warm weather, a higher temperature of the water furnished to the city than was expected before the completion of the Lake Tunnel, or than is agreeable to many persons. Some supposed the water would be nearly ice cold throughout the summer, but a little reflection will show that this was unreasonable.

HYDRANTS.

During the year ending April 1, 1870, the following new hydrants were established, viz:

SOUTH DIVISION.

1 S.W. corner Arnold and Twenty-seventh sts. " " Twenty-ninth sts 1 S.W. " " Thirtieth sts. 1 S.W. 1 S.W. " 66 Thirty-first sts. 1 S.W. 66 Archer av. and Buddan st. " " " 1 S.E. Twenty-second st. 1 North side of Archer av., between Purple and Twenty-first sts. 1 S.W. corner Burnside and Twenty-fifth sts. Twenty-second sts. 1 N.E. " 66 " Twenty-sixth sts. " 1 N.W. " 1 N.W. " Archer av. 1 N.W. 66 Butterfield and Thirty-second sts. " Thirty-third sts. 1 N.W. 66 1 North side Bryant st., west end of pipe. 1 S.W. corner Bushnell and Archer av. " 1 S.W. 66 Butler 1 in Court House yard. 1 N.W. corner Calumet av. and Twenty-first st. Cottage place and Thirty-first st. 1 S. W. " 1 West side of Cottage place, at south end of pipe. 1 N. E. corner Clark and Fourteenth sts. 1 S.W. " Ellis av. and Douglas place. Eighteenth st. and Alley bet. Stewart and Went-1 S.W. " worth avenues.

1 S.W. (eornei	Dearborn and Monroe sts.
1 S.E.	""	Finnell and Archer av.
1 N.E.	"	of the Illinois Central Railroad Depot.
1 S.W.	"	Lake av. and Douglas place.
1 N.W.	"	" Wahpanseh av.
1 N.W.	"	McGregor st. and Wentworth av.
1 N.W.	66	" Buddan st.
1 N.W.	"	" " Stewart av.
1 N.E.	"	" Butler st.
1 S.E.	"	Market and Madison sts.
1 S.E.	"	" Randolph sts.
1 N.W.	"	Main and Thirty-first sts.
1 N.W.	"	Nineteenth and Blackwell sts.
1 N.E.	"	" Purple sts.
1 N.W.	"	" Wentworth av.
1 S.W.	66	Prairie av. and Twenty-ninth st.
1 N.W.	"	" Twenty-fourth st.
1 S.W.	"	" Thirty-first st.
1 S.W.	"	" Thirty-third st.
1 N.W.	"	" Twenty-third st.
1 S.W.	"	" Thirty-second st.
1 S.W.	66	" Cottage Grove av.
	ide of	Prairie av., bet. Nineteenth and Twentieth sts.
		er South Park av. and Twenty-sixth st.
1 N.W.	"	" " Twenty-third st.
1 N.W.	"	Twenty-eighth st. and Michigan av.
1 N. E.	"	Twenty-ninth and Clark sts.
	side	of Thirty-third st., at east end of pipe.
		er Twenty-third st. and Michigan av.
1 S.W.	"	Vincennes road and Wahpanseh av.
1 West	side o	
1 S.W.		
1 N.E.	"	Wentworth av. and Twenty-eighth st.
1 N.W.	"	" " Twenty-ninth st.
1 S.W.	"	" " Twenty-seventh st.

58 Total in South Division.

WEST DIVISION.

1 N.W.	corner	of Adams and Laflin sts.
1 N.W.	"	" Paulina sts.
1 S.W.	"	" Hamilton sts.
1 S.W.	"	" Green sts.
1 S.W.	"	" Jefferson st.
1 N.W.	"	" Canal sts.
1 N.W.	"	" Throop sts.
1 S.W.	"	" Winchester sts.
1 S.W.	"	" Honore sts.
1 S.W.	"	Ada and Washington sts.
1 N.W.	"	" Lake sts.
1 N.W.	"	Augusta and Will sts.
1 N.E.	"	" Currier sts.
1 N.E.	"	" Reuben sts.
1 N.W.	"	Blackhawk " sts.
1 N.W.	"	Bunker and Beach sts.
1 N.W.	"	" Canal sts.
1 N.W.	"	Bradley and Noble sts.
1 N. E.	"	Brown and Sixteenth sts.
1 N.W.	"	Centre av. and Jackson st.
1 S.W.	"	Canal and Liberty sts.
1 S.W.	"	" Barber sts.
1 N.W.	"	" Catherine sts.
1 N. E.	"	" Forquer sts.
1 N. E.	"	" Harrison sts.
1 N.W.	"	" Wilson sts.
1 N.W.	"	" School sts.
1 N. E.	"	Clinton and Lake sts.
1 N.W.	"	" Quincy sts.
1 N. E.	"	" Carroll sts.
1 N.W.	"	Chicago av. and Wood st.
1 N.W.	"	" Samuel st.
1 N.W.	"	Carpenter and Carroll sts.
1 N.W.	"	" Second sts.
1 N.W.	"	" Milwaukee av.
1 S.W.	"	Curtis and Carroll sts.

1 S.W.	corner	· Curtis and Fulton sts.
1 N.W.	"	Currier and Wade sts.
1 N.W.	"	Desplaines and Carroll sts.
1 S.W.	"	" Hubbard sts
1 N. E.	"	Ewing and Canal sts.
1 S.W.	"	Eighteenth and Wentworth av.
1 N.W.	"	Eleventh and Blue Island av.
1 S.W.	"	Elston road and N.W.R.R. track.
1 N.W.	"	" Crossing st.
1 S.W.	"	" Clybourn place
1 S.W.	"	" Armitage road.
1 N. E.	"	" Redfield st.
1 N.W.	"	" North av.
1 S.W.	"	Evans and Halsted sts.
1 N. E.	66	Elizabeth and Randolph sts.
1 N.W.	"	" Fourth sts
1 N.W.	"	Fourth and Centre av.
1 N.W.	"	Fig and Wade sts.
1 S.W.	"	Green and Lake sts.
1 N.W.	66	Henry and Blue Island av.
1 N.W.	"	" Margaret sts.
1 N.W.	66	" Waller sts.
1 N. E.	66	" Centre av.
1 N.W.	66	Hubbard and Oakley sts.
1 N.W.	"	" Robey sts.
1 N.W.	"	" Leavitt sts.
1 N.W.	"	" Hoyne sts.
1 S.W.	"	" Lincoln sts.
1 N.W.	"	St. John place and Halsted st.
1 N. E.	66	Jefferson and Quincy st.
1 N.W.	"	" Kinzie sts.
1 N.W.	"	" Twenty-second sts.
1 N.W.	"	Jackson and Wood sts.
1 N. E.	"	" Clinton sts.
1 S.W.	"	" Hermitage av.
1 N.W.	"	" Lincoln sts.
1 N.W.	"	" Seeley sts.
1 N.W.	"	Johnson and Wright sts.

NINTH ANNUAL REPORT OF

1	N	. E.	corner	Johnson and Sixteenth sts.
1	N	. E.	"	Kansas and Laflin sts.
1	N	.W.	"	Kinzie and Union sts.
1	S.	W.	"	Lake and Peoria sts.
1	N	.W.	65	" Seymore sts.
1	N	.W.	"	" Cossett sts.
1	N	.W.	"	Lumber and Halsted sts.
1	N	.W.	66	May and Fourth sts.
1	Ν	.W.	"	" Sixteenth sts.
1	N	.W.	"	McHenry and Redfield sts.
1	Ν	.W.	66	Madison and Stanton sts.
1	Ν	.W.	66	Maxwell and Morgan sts.
1	N	.W.	"	Monroe and Lincoln sts.
1	Ν	.W.	"	" Clinton sts.
1	Ν	.W.	66	" Paulina sts.
1	S.	W.	66	" Winchester sts.
1	Ν	. E.	66	Nebraska and Laflin stå.
1	Ν	.W.	"	Noble and Division sts.
1	N	. E.	"	" Fry sts.
1	Ν	.W.	"	" Cornelia sts.
1	Ν	.W.	66	" Chapin sts.
1	Ν	.W.	"	" Fourth sts.
1	Ν	.W.	"	Nineteenth and Wentworth av.
1	Ν	.W.	"	O'Neill and Halsted sts.
1	Ν	.W.	"	Oakley and Walnut sts.
1	Ν	.w.	"	Paulina and Wabansia av.
1	N	. E.	"	Rebecca and Morgan sts.
1	Ν	.W.	"	" Centre av.
1	Ν	. E.	66	" Margaret sts.
		W.	"	Ruble and Canalport av.
1	S.	W.	"	Reuben and Division sts.
1	S.	W.	66	" Jane sts.
1	S.	W.	"	" Emily sts.
1	Ν	.W.	"	" Walnut sts.
1	Ο	n R	edfield	st., at the Rolling Mills.
				Sangamon and Tyler sts.
1	S	Е.	"	" Randolph sts.
1	S.	Е.	"	String and Canalport av.

1 N.E.	corner	Smart and Kinzie sts.
1 N.W.	"	Sixteenth and Morgan sts.
1 N.E.	66	" Newberry sts.
1 N.E.	66	Sloan and Nebraska sts.
1 N.W.	"	" N. W. Railroad track.
1 N.E.	"	Seventeenth and Halsted sts.
1 S.W.	"	Seward and Canalport av.
1 N.W.	66	Trustee and Kinzie sts.
1 S.E.	"	Twelfth and Lumber sts.
1 N.W.	66	Throop and Henry sts.
1 N. E.	"	Union and Twenty-second sts.
1 N. E.	"	Van Buren and Morgan sts.
1 N. E.	66	Wade and N. W. R. R. track.
1 N.W.	"	Walsh and Halsted sts.
1 N.W.	66	West Water and Kinzie sts.
1 N.W.	"	Western av. and Kinzie st.
1 N.W.	"	" Fulton st.
1 N.W.	66	Wabansia av. and N.W. R. R. track.
1 N.W.	"	" Reuben st.
1 N. E.	66	Wright and Rawson sts.
1 N.W.	"	Walnut and Western av.

133 Total in the West Division.

NORTH DIVISION.

1 N.W.	corner	Belden av. and Larrabee st.
1 S.W.	"	Church st. and North av.
1 N. E.	"	Centre and Mohawk sts.
1 N.W.	"	Church and Blackhawk sts.
1 N. E.	"	Dearborn and Indiana sts.
1 S. W.	66	" North av.
1 N.W.	66	Erie and Sedgwick sts.
1 N.W.	"	" Townsend sts.
1 N.W.	"	Franklin st. and Asylum place.
1 N.W.	66	" Linden sts.
1 N.W.	"	Fremont and Clay sts.
1 On H	uron, w	vest side of Roberts st.

1	N.W.	corner	Hammond and Wisconsin sts.
1	N.W.	"	" Menominee sts.
1	N. E.	corner	Hill and Wells sts.
1	N. E.	"	Indiana and "
1	East s	ide of	Kroger st., at north end of pipe.
1	N.W.	corner	LaSalle and Linden sts.
1	N. E.	66	Linden and Franklin sts.
1	N. E.	66	North av. and "
1	N. E.	"	Ohio and Wells sts.
1	N. E.	66	Pearson and Wells sts.
1	S. E.	"	Pine and Huron sts.
1	N. E.	"	" Indiana sts.
1	N.W.	"	" Ontario sts.
1	N.W.	دد	Sophia and Franklin sts.
1	N.W.	"	street S. of Blackhawk and Clybourn av.
1	S.W.	66	Sheffield av. and Kroger st.
	N.W.	٢٢	Wells and Ontario sts.
1	N. E.	66	" Illinois sts.
1	N. E.	"	" White sts.
	N. E.		Wendel and Wells sts.
	N.W.		Willow and Fremont sts.

33 Total in the North Division.

Making 224 in all, which, together with those previously in, would give 1,294 hydrants in the city at this date. 162 hydrants had, for various reasons, to be taken out and renewed during the year. 125 were frozen, and had to be thawed out during the winter.

On all new lines of pipe, a hydrant is put in at every street crossing, and on every street that is paved this is done. Originally the plan was to put one at every second corner.

STOP-COCKS.

The following Stop-cocks were put in during the year, viz:

SOUTH DIVISION.

4 inch, Arnold street, south line of Thirty-first street. 1 66 66 66 66 1 6 Buddan Archer avenue. Court House supply pipe, east line La Salle street. " 1 6 " " 66 west wing of City Hall. 1 4 " " " west line of Clark street. 1 6 66 " " east wing of City Hall. 1 4 Cottage place, south line of Thirty-first street. 1 " 4 Clark street, south line of Thirty-third street. 1 " 6 Dearborn street, north line of Adams street. ٢٢ 6 1 Ellis avenue, south line of Douglas place. " 1 4 1 4 66 Lake avenue, Madison (north side of st.) west line of Market street. 66 1 4 66 1 4 " (south side of st.) 1 " Polk street, west line of Wells street. 4 1 - 6" Prairie avenue, south line of Thirty-first street. 6 " " Archer avenue. 1 Reuben street, " South Park avenue, " Twenty-second street. 1 6 66 $1 \ 16$ Twelfth street, east of the bridge. " 66 1 8 blow off. Twenty-sixth street, east line of Wabash avenue. " 1 12 " " west " $1 \ 12$ Twenty-ninth street, east line of Clark street. " 1 - 6 66 " Thirty-first street, " 1 8 66 " " 1 6 Thirty-third street, " 1 6 " State street. Twenty-fourth street, Vincennes road, south line of Douglas place. " 1 - 6 Wabash avenue, south line of Twenty-second street. " 1 24 north line Twenty-third st., blow off. 66 " 1 8

28 Total number in the South Division.

WEST DIVISION.

1			, Adams street, west line Reuben street.
1	6	"	" " Morgan street.
1	6	"	" " Lincoln street.
1	8	"	Ada street, north line Randolph street.
1	6	"	Augusta street, west line of Reuben street.
1	6	"	Canalport avenue, east line of Ruble street.
1	6	"	Canal street, south line of Twelfth street.
1	6	"	Centre avenue, south line Sixteenth street.
1	8	"	" north line Chicago avenue.
1	8	"	" south line "
1	16	"	Chicago avenue, west line Reuben street.
1	16	"	" east " "
1	8	"	" west " " blow off.
1	6	"	" west " "
1	6	"	" east " "
1	6	"	" east line of Noble street.
1	6	"	" west " "
1	16	"	" west " Halsted street.
1	6	"	Dunn street, north line of Kinzie street.
1	6	"	Elston road, north line of North avenue.
1	4	"	English street, west line of Halsted street.
1	6	"	Evans street, " "
1	6	"	Fisk street, south line of Sixteenth street.
1	6	"	Fourth street, west line of Elizabeth street.
1	6	"	" west line of Centre avenue.
1	8	"	" east line of Reuben street.
1	8	"	" west " " "
1	6	"	Fulton street, west " " "
1	12	"	Green street, south line of Adams street.
1	4	"	Hamilton street, south line " "
1	12	"	Harrison street, east line of Reuben street.
1	12	"	" west line of Desplaines street.
1	4	"	Halsted (east side), south line of Meagher street.
1	4	"	" (west side), " " "
1	4	"	" (west side), north line of Sixteenth street.
1	4	"	" (east side), " " "

6 inch, Jackson street, west line of Lincoln street. 1 " " " 8 west line of Green street. 1 " " " " 8 1 east line of 1 4 " John place, west line of Halsted street. 1 12 " Kinzie street, east line of Reuben street. 1 12 " " " west " Laflin street, south line of Adams street. 1 6 " 1 66 Lake street, west line of Western avenue. 6 $1 \ 12$ " Lytle street, south line of Harrison street. " Loomis street, north line of Adams street. 1 6 " Lumber street, west line of Halsted street. 1 4 " " south line of Twelfth street. 1 4 Madison street, west line of Western avenue. " 1 8 " 1 8 Morgan st., in the branch bet. 8 in. and 12 in. pipes on Harrison street. Morgan st., in the branch bet. the 8 in. and 16 in. pipes 8 " 1 on Twelfth street. Morgan street, south line of Twelfth street. 1 8 " Monroe street, west line of Lincoln street. " 1 4 66 Newberry avenue, south line of Twelfth street. 1 4 8 " Noble street, north line of Division street. 1 " north line of Chicago avenue. 1 8 1 4 " O'Neill street, west line of Halsted street. 1 24 " Reuben street, north line of Chicago avenue. " " 1 8 " " " blow off. " " south line of Kinzie street. 1 6 " " " " " 1 6 north 66 " " " Smart street, north 1 4 66 String street, north line of Canalport avenue. 1 6 Sixteenth street, west line of Centre avenue. 1 " 8 66 " 66 66 Halsted street. 1 8 " " 1 66 " east line of 8 Samuel street, north line of Chicago avenue. " 1 6 Twelfth street, west side of the bridge. " 1 16 66 " 66 66 " blow off. 1 8 1 16 " " west line of Canal street. " " " " 1 8 1 4 " Trustee street, north line of Kinzie street.

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1	8 i	nch	, Throop street, north line of Harrison street.
1	6	"	" north line of Adams street.
1	8	"	Union street, in the branch between the 8 in. and 16 in.
			pipes on Twelfth street.
1	6	"	Walnut street, west line of Reuben street.
1	4		Washington street, (north side) west line Canal st.
1	4	"	" (south side) " "
1	6	"	Walsh street, west line of Halsted street.
1	6	"	Wood street, north line of Chicago avenue.
1	8		Western avenue, north line of Kinzie street.
1	6		Wabansia avenue, west line of Reuben street.
1	4		Winchester street, south line of Adams street.
		_	

83 Total number in the West Division.

NORTH DIVISION.

1	4 i	inch	, Block street, north line of North avenue.
1	6	"	Clybourn avenue, north line "
1	8	"	Clark street, " "
1	6	"	" north line of Schiller street.
1	4	"	Church street, south line of North avenue.
1	24	"	Division st., at east end of Canal pipe-tunnel.
1	24	"	" west " " "
1	6	"	Halsted street, south line of Weed street.
1	8	"	North avenue, west line of Sedgwick street.
Ï	6	"	Pine street, north line of Chicago avenue.
1	6	"	White street, west line of Wells street.
	-		4

11 Total number in the North Division.

In all 122, making, together with those previously in, 623 Stop-cocks in the city to April 1, 1870. Eleven Stop-cocks had to be renewed during the year.

Stop-cock districts which were originally very large, have in some cases been divided up into much smaller ones, and this system is to continue until all are made conveniently small. This is a necessity, both for the convenience of the citizens, and to avoid danger in case of fire. This will enable the Board to put in more effective fire hydrants, especially in the business parts of the city, without exposing large districts to fire while putting them in.

LAKE TUNNEL.

The Lake Tunnel has continued to supply the city during the year, satisfactorily and uninterruptedly, except for a few hours on the 24th of December, when a partial stoppage was caused by anchor ice. Fortunately this was not felt in the city, and by constant watching night and day, in very cold weather during the rest of the winter, a recurrence of this evil was prevented.

In consequence of an unexpected amount of sediment being on the screen frames in the gateways of the lake shaft, it was feared that an extensive deposit might be forming in the tunnel. Mr. P. E. Falcon, the diver, was employed to examine each end of the tunnel. He found a considerable deposit in the sumps at the bottoms of the lake and land shafts, a very few inches in the tunnel extending only about 12 feet from each shaft, and then for a little over 200 feet from each shaft; as far in as he went, he found the tunnel perfectly clear of deposits on the bottom. He noticed, however, a great many small and delicate stalactites on the top and sides.

PROPOSED NEW WATER WORKS.

Plans and estimates, and a report on them, were made by the Board to the City Council, Oct. 15, 1869, and published in the proceedings of Feb. 7, 1870, of the latter body.

In consequence of a doubt in the minds of some intelligent citizens as to the propriety of proceeding with these works at present, a short review of the subject may not be inappropriate here.

The propriety of constructing large elevated reservoirs was discussed when the works were under the care of the late Board of Water Commissioners. Mr. McAlpine, their Engineer, afterwards stated that the conclusion arrived at was, that it would be both cheaper and better for the city to make duplicate pumping works than to erect such reservoirs. Both experience and investigation, under the present Board, have only tended to confirm that conclusion. Accordingly, when the Lake Tunnel was under construction, provision was made for its extension westward, no one dreaming, however, that its use would be called for so soon. But the rapid increase of consumption, the deficient supply to a large portion of the West Side, which existed until quite recently, and especially the break in the Chicago avenue main, caused the City Council to call upon the Board for plans for the extension of the Lake Tunnel to the West Side and the erection of new pumping works. Hence the above mentioned report, in which estimates of the first cost and future maintenance of tunnels five, six, seven and eight feet in diameter were made. After careful discussion between the Board and a committee of the City Council, the seven feet size, with a termination somewhere on the South Branch, west of Halsted street, was recommended to the City Council, and adopted by the latter body. Such a tunnel could be made to supply, under a total head of seven feet,

50,000,000 gallons daily, or under twenty-eight feet head, 100,-000,000 gallons daily.

In providing for such large amounts of water, the wants, not merely of the present, but those of the future for a reasonable time, have been considered. Hitherto all estimates for the future have been so far exceeded that improvements and enlargements made under them have proved inadequate almost as soon as completed. To avoid a constant repetition of this state of things, it was thought best to make the tunnel large enough for twenty years to come, according to a moderate estimate of future con-But if the enormous rate of increase of the last three sumption. years cannot be checked, then even this new and large tunnel, if carried out, will not have been in operation five years before it will be necessary to commence the construction of additional works to prevent a short supply. The construction of the tunnel does not involve the expenditure of any more than may be necessary for the present and immediate future, in the way of pumping engines and large mains. These can be added to or extended as may be required hereafter.

Perhaps a stronger reason than any yet given for an abundant provision for the future, is the necessity of meeting present and prospective wants of the fire department. When it is remembered that the annual losses by fire in this city have already exceeded \$2,000,000 more than once, the question of saving a few hundred thousand dollars in the first cost of new works sinks into utter insignificance, compared with the importance of insuring an abundant supply. If the new pumping engines are made capable of raising water two hundred feet high, it would at all times, and in all parts of the city, be practicable to put out fires in ordinary dwellings by simply attaching hose to the hydrants, if the system of large mains, commenced by the Board, is everywhere carried out, and sufficient power kept at convenient points.

The actual height to which it would be best to raise the water at any particular time, must depend upon the quantity demanded, the points of delivery, and the sizes of the distributing mains, all of which will vary from year to year, and cannot be forefold.

SEWERAGE.

Снісадо, April 30, 1870.

To E. S. CHESBROUGH, Esq., City Engineer.

SIR: Herewith I hand you report of sewers built during the past year in the three divisions of the city, with location of the same; of the repairs and cleansing of the sewers, and of the private drains connected with them.

The amount of sewers built has been very large, being about 50 per cent. more than that done any previous year since the beginning of the sewerage work, and amounts to about twentysix and a half miles.

The most important of the works executed was the main sewer on Douglas place, from the Lake to State street, which will give an outlet to the sewerage of the whole of that part of the city south of Thirty-first street extending west to Clark street. A part of this sewer was built at a depth of twenty feet cutting, in very wet sand, and extraordinary precautions were required in passing some important buildings, to prevent their being undermined. The whole of the work was carried on without any accident, and it was built in a firm, substantial manner. To the contractors, Messrs. Haines & Hallanin, and to the inspector, Mr. George Everett, much credit is due, for the thoroughness of the work. The whole was under the immediate charge of Mr. W. M. R. French, assistant engineer. The cost of this sewer, which is about a mile in length, was not far from \$100,000. The tributary sewers to it will not cost more than the average for their respective sizes. The general cost of the sewers built during the year was about ten per cent. less than that of the work done the previous year, and had not so large an amount of work been done simultaneously, the cost would have been still less. It is expected that the work done during the year 1870 will be at quite a reduction in cost.

LENGTH IN FEET OF SEWERS BUILT TO APRIL 1, 1870.

feet.	S. DIVI	SION.	W. DIV	ISION.	N. DIVI	ISION.	ן	TOTALS T	HREE DIVI	SIONS.	
Diameters in f	Previous to April 1, 1869.	From April 1, 1869, to April 1, 1870	Previous to April 1, 1869.	From April 1, 1869. to April 1, 1870	Previous to April 1, 1869.	From April 1, 1869. to April 1, 1870	Totals previous to April 1, 1869.	Totals April 1, 1869. to April 1, 1870	Total Sewers built up to April 1, 1870.	Average cost per foot, 1869-70.	Remarks.
6 5 41 3 3 21 21 2 1 Tota	1,419 4,988 1,033 4,317 18,977 45,805 6,359 41 231 80,593 204,582	8,235 37,173	53,956 232,118	$1,320 \\7,723 \\7 396 \\6,149 \\3,291 \\2,856 \\ \\27,537 \\17,136 \\73,408$	43,316	3,377 7 260 11,637 6,850 29,124	$\begin{array}{r} 6,606\\ 49,599\\ 38,840\\ 35,428\\ 2,083\\ 34,740\\ 51,810\\ 6&359\\ 178,661\\ 178,165\\ \hline 552,291\\ 110\underline{1491}\\ 5280\\ \end{array}$	$\begin{array}{r} 989\\ 2,368\\ 12,416\\ 8,479\\ 7,061\\ 8,255\\ 14,369\\ \hline \\ 53,547\\ 32,221\\ \hline \\ 139,705\\ 26\frac{2}{5}\frac{2}{2}\frac{2}{8}\frac{5}{0} \end{array}$	$\begin{array}{r} 7,595\\ 51,967\\ 51,256\\ 43,907\\ 9,144\\ 42,995\\ 66,179\\ 6,359\\ 232,208\\ 210,386\\ \hline \\ 721,996\\ 136\frac{3 \ 9}{5} \frac{1}{2} \frac{6}{5} \frac{9}{2} \frac{1}{8} \frac{6}{6} \end{array}$	$\begin{cases} 28 \ 72 \\ 6 \ 65 \\ 8 \ 87 \end{cases}$	
Div	's241,	755	305,	526	174,	715	Miles.	Miles.	Miles.		

CATCH BASINS AND MANHOLES BUILT.

Built from A	pril 1, 1869	to April 1,	1870.	Previously	Total.	Average Cost,	
	S. Div'n.	W. Div'n.	N. Div'n.	Div'n. Built.		1809-70.	
Catch Basins	201	865	205	3,132	3,903	\$76.28	
Manholes	325	423	180	3,875	4,803	18.55	

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DETAILED STATEMENT OF SEWERS BUILT FROM APRIL 1, 1869, TO APRIL 1, 1870.

SOUTH DIVISION.

			1								
1	LOCATION.			ENG'	FH O	F SE	WEF	RS B		INI	EET.
ON WHAT STREET.	FROM	то	6 ft	5 ft.	$4\frac{1}{2}$ ft	4 ft.	3 <u>1</u> ft	3 ft.	2 <u>1</u> ft	2 ft.	1 ft.
Douglas pl. (35th)	Lake Michigan	Cottage Grove av	989								
	Cottage Grove av	Moonaway place.		1048						1	
· · · · · · · · · · · · · · · · · · ·	Moonaway place	Forest av			1316						
₩ 6.6 "maximum" 6.6 6.6 "	Forest av	Michigan av				1083					
	Michigan av	State				••••	912	1010			
Deering Main	So, branch of riv.	Archer av				• • • •			1	• • • • •	
Archer av	Halsted	McGregor	• • •					538			
Twenty-third	Archer av	Buddan						1003			
	Buddan	Wentworth av							768		
South Park av	Twenty-second	Twenty-third	1	1			•••		644		
sc	Twenty-fifth	Twenty-sixth	1						695		
	Thirty-fifth	Northward		••••					365		
State Fourteenth	Twenty-sixth Michigan av	Twenty-ninth			• • • •				1364	• • • • •	
Archer av	McGregor	Indian a av Wallace	• • •		••••				411	742	
44 ····	Halsted	Line								837	
	Alley E.of Joseph	Alley E. of Church								2294	
Wentworth av	Twenty-third	Alexander								194	
··· ···	Eighteenth	Seventeenth				• •	• • • •			411	1
	Nineteenth	Twentieth								465	1
Buddan	Twenty-third Twenty-second.	Alexander Finnell	1	••••				••••		201 228	
Seventeenth	Wentworth av.	Arnold		••••	••••			•••		258	
14	Burnside	Butterfield								234	
Twenty-ninth	South Park av	Cottage Grove av	·							656	
Twenty-fifth	Calumet av	6.° 66			••••					84	
South Park av	Twenty-ninth	Thirtieth			•••	••••	••••	••••	••••	893	
Northern av	Twenty-third South Park av	Twenty-fifth		•••	• • •	•••	• • • •	••••		$ \begin{array}{r} 1279 \\ 201 \end{array} $	
Indiana av	Fourteenth	Cottage Grove av Sixteenth		••••			• • • •	••••	••••	1401	
Twenty-fourth	Prairie av	Cottage Grove av								245	
Hanover	Twenty-third	Bushnell								376	
	Twenty fourth	McG egor			••••	••••	•••		• • • •	365	
Calumet av	Twenty-ninth	Thirtieth		• • • •	• • • •	••••	••••	••••	••••	892	1
Indiana av Wabash av		******	•••	•		••••	••••	••••	••••	891 877	
Michigan av		Southward	•••	••••		••••	••••	••••	· • • •	374	
	Nineteenth	Twentieth								475	
	Bushnell	Twenty-fourth									265
	State	Michigan ay		• • • • •	• • •			• • • •		••••	813
Twenty-first	Duoinio ner	Alley E of Prairie	• • •	••••	••••		••••	••••		• • •	$ \begin{array}{r} 1603 \\ 408 \end{array} $
	Prairie av	Calumet av	• • •	••••				•••	••••	•••••	1382
Twenty-fourth .	6	Prairie av Wabash av	••••	••••	••••			••••		•••••	413
	Indiana av	Eastward									227
Twenty-fifth	State	Wabash av									416
	Twenty-fourth	Northward						•••		••••	268
	State	Wabash av	••-				••••	••••	••••	••••	421 920
	Monroe	J×ckson Twentieth	•••	••••	•••	••••	••••	••••		•••••	920 397
	Michigan av										254
Twenty-fifth	Wings across Sout	h Park av									85
Twenty-third	" "										81
Twenty-ninth	Wings across Calu				••••					••••	148
McGlashen	····· Arch	er av. North		••••		••••	••••			• • • • •	54
Stewart av Butler		South		••	••••	••••	••••			••••	29 51
~ utici		•••									
Totals-37,1	73 feet		989	1048	1316	1083	912	4964	4253	14373	8235
,											

WEST DIVISION.

WrightStewart av.Union2159Milwankee av.Elston roadCentre av.351FultonLeavittWestward210Madison"Westward220Lake"Westward428Wright.UnionHalsted429SixteenthHalsted273SixteenthHalsted273Milwaukee av.Centre av.WillCanalport av.EighteenthJeffersonSixteenthJafferson651Twenty-secondJohn''Centre av.John''Yingan''1053GreenLakeIlubbardMadisonTyler2886AdaRandolph''YangamonCarrollThirdThird2008CanalophYakenSangamonCarrollThird2008CanalophYakingtonYan BurenJackson''Yeler''Yan Buren''Yan Buren <t< th=""><th>LOCAT</th><th colspan="6">LOCATION OF SEWERS BUILT.</th><th colspan="7">LENGTH OF SEWERS BUILT IN FEET.</th></t<>	LOCAT	LOCATION OF SEWERS BUILT.						LENGTH OF SEWERS BUILT IN FEET.						
Adams. Loomis Reuben. [125] 125 Kinzie. Halsted. Morgan. 1275 1422 Centre av. So. branch of river. Twenty-second. 1442 1442 Van Buren. Loomis Reuben. 1425 1442 Van Buren. Robey 2500 2501 1442 Centre av. Twenty-second. Clayton. 723 155 Lake Paulina. Robey 1997 1830 Mitchell & Stewart av. Union 1830 1830 Madison """"""""""""""""""""""""""""""""""""	ON WHAT STREET.	FROM	то	5 ft.	$4\frac{1}{2}$ ft	4 ft.	81 ft	3 ft.	2 1 ft	2 ft.				
Adams. Loomis Reuben. [125] 125 Kinzie. Halsted. Morgan. 1275 1422 Centre av. So. branch of river. Twenty-second. 1442 1442 Van Buren. Loomis Reuben. 1425 1442 Van Buren. Robey 2500 2501 1442 Centre av. Twenty-second. Clayton. 723 155 Lake Paulina. Robey 1997 1830 Mitchell & Stewart av. Union 1830 1830 Madison """"""""""""""""""""""""""""""""""""	Division	The river	Noble	1900										
Kinzie. Halsted. Morgan. 1270 Centre av. So. branch of river. Twenty-second. 1422 Van Buren. Loonis Reuben. 1425 Fulton Renben. Robey. 2501 Fulton Reuben. Cayton. 723 Lake Paulina. Robey. 1997 Kinzie. Paulina. Robey. 1829 Mitchell & Stewart av. No. branch of river. Vright. 1557 Fulton Baby. Centre av. 2601 Mikadison t 1839 1829 Lake t 1839 1839 Mikadison Leavitt Western av. 2601 Mikaukee av. Elston road Centre av. 233 Wright. Union Halsted. 420 Streenth. Centre av. 1839 423 Mikwaukee av. Eighteenth 2361 423 Streenth. Centre av. 161 420 Mikwaukee av. Eighteenth. 372 372 Streenth.				1	11000									
Centre av. So. branch of river. Twenty-second. 1422				1			••••			• • • • •				
Yan BurenLoomisReuben1325FultonReneCentre av.2310FultonReubenRobey230LakePaulinaRobey1997LakePaulinaRobey1997Kitchell & Stewart av.So. branch of river.Vight.1575FultonKewart av.Union2301Kake*13301330Madison**1330Miwnakee av.Elston roadCentre av.2153FultonLeavittWestern av.233Mikmake av.Elston roadCentre av.273FultonLake*Western av.233MikenthHalsted423200SixteenthGentre av.273SixteenthJefferson651Twenty-secondJohnHubba'd499MorganFultonKinzie499GreenLakeHubba'd403GreenLake.11051492MorganFultonKinzie553GreenLake.Hubba'd553GreenLake.11051553SanganonCarrollThird2908RadagonYuler2936RadagonYuler2936RadagonYuler433GreenLake1040MorganStatenth553GreenLake1040SanganonCarrollThirdGreenLake533							1							
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Oakley"""Warren373DesPlainesHarrisonTwelfth2604BickerdykeChicago avFirst365Milwaukee avWillAugusta580Canalport avJeffersonUnion846Bishop courtMadisonWashington467HalstedNo. branch of river.Chicago av482""T3 sec. of ChicagoFourth1402MadisonMonroeSufferson1402	Lincoln													
Oakley '' Warren 373 DesPlaines. Harrison. Twelfth. 2604 Bickerdyke Chicago av First 365 Milwaukee av. Will Augusta 780 Canalport av Jefferson Union 846 Bishop court. Madison Washington. 467 Halsted. No. branch of river. Chicago av. 482 '' 73 sec. of Chicago Fourth. 1402 Madison Monroe. 417		Madison												
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Milwaukee av. Will Augusta 780 Canalport av Jefferson Union 846 Bishop court. Madison Washington 467 Halsted No. branch of river. Chicago av. 452 " 73 sec. of Chicago av. sewer Fourth 1402 Madison Monroe 417					1 1									
Canalport av Jefferson Union S46 Bishop court Madison Washington 467 Halsted No. branch of river. Chicago av 482 '' 73 sec. of Chicago av. 1402 Radison Monroe 1402 Madison Monroe 1402	Bickerdyke													
Bishop court Madison Washington 467 Halsted No. branch of river. Chicago av 1402 T3 sec. of Chicago av. sewer Fourth 1402 Madison Monroe 1402								• • • •						
Halsted No. branch of river. Chicago av	Canalport av							••••						
'' 73 sec. of Chicago av. sewer Fourth 1402 Monroe Centre av Madison Monroe		Madison				1		••••						
av. sewer Fourth 1402 Madison Monroe			omeago av	••••	• • • •	••••	•••	••••	• • • •	452				
Centre av Madison Monroe 417	•••••••		Fourth							1.109				
	Centre av						1							
Amounts forward	OCHUE GY	mauison	11011100					••••						
	Amounts forwa	rd		1320	7723	7396	6149	3291	2598	26181				

WEST DIVISION-CONTINUED.

LOCATION OF SEWERS BUILT.

LENGTH OF SEWERS BUILT.

ON WHAT STREET.	FROM	то	5 ft.	41 ft	4 ft.	3] ft	3 ft.	2] ft	2 ft.	1
			<u> </u>							
		Amount forward.	1320	7723	7396	6149	3291	2598	26181	
lubbard	Peoria	Morgan								
		Leavitt							}	1
Varren										2
	DesPlaines									
		Jefferson					••••			1
	Canal									
	First						!	• • • •		
	Halsted					••••		••••		1
										1
	Canal	W. of DesPlaines.								
	Union	Eastward								1
	Milwaukee av									
	Throop									
	Loomis							1		
	Canal									
	Fourth	Northward								
	Twelfth									
heldon	Madison	Northward								

WING SEWERS ACROSS STREETS BEING PAVED.

Canalport av	31 f. E. of H	[alsted.]	27 f.W. of	Halsted					1	130		
Luke	Sewer on	4.6	Westwar							65		
Evans	44	66	"							63		
Lumber	27 f. E. of H	Ialsted.	25 f.W. of								120	
Eighteenth	Sewer on		64 f. W. of								64	
Ada		adison.	Northway	rd							50	
Loomis		"	Southwar								43	
S. Western av		66	North-eas								49	
Paulina	6 f. N. of	66	6 f. S. of]									
Page	Sewer on	663	Northwa								41	
Wood	~ ~ ~	6 6 ⁷⁸	Southwar								42	
Winchester	6.6	" "	66								45	
Robey	66	66	**								48	
Seely	66	46	66								45	
Hoyne	6 f. N. of	66	6 f. S. of I						}		88	
Western av	11	66		44					1		86	
Leavitt	Sewer on	66	Southwar	· d					1		62	
Oakley	64	"							1		42	
Honore	6.6	* *	**			••••					42	
Paulina	2 f. S. of La		10 f. N. o	f Lake							92	
Page	Sewer on '	4	Southway								$4\overline{2}$	
Wood	2f N. of '		2 f. S. of					••••			87	
Lincoln	Sewer on '		Southwar								47	
Laffin	6 f N. of A		6 f. S. of							••••	77	
Dunn	Sewer on K		Northwa								56	
Pratt		alsted.	Westwar							••••		49
Ridgley	66 11	66 G	64 K	· · · · · · · ·						••••	•••••	49
O'Neill	6.6	"		••••••		••••						58
John	66	"							• • • •		•••••	58
Lisle		"	Eastward							••••	• • • • •	60
English	66	"	61 f. E. &				••••	••••	••••	••••	•••••	122
Mark		"	Eastward						• • • •			65
Luke		"	13450W410			•••						61
Evans		"		•••••			• • • •		••••		••••	61
Seventeenth		"						••••				61
Canalport av	6.6		Westware				••••		••••			62
Across Canal st., a	1				••••	••••	• • • •	•••	••••	••••		02
and W. from Ca	at report of	T. D., J	a 190 f F	and l								
												646
W., Forquar 122 W. Buplion 217												
W., Bunker 117	o, and W	• • • • • • • •	• • • • • • • • • •)								
Amounts for	mond				1320	7792	7206	6140	2201	2856	27537	16041
Amounts for	ward	• • • • • • • • •	••••		10201	1125	1090	0149	0291	2000	21001	100.41

WEST DIVISION-CONTINUED.

LO	LENGTH OF SEWERS BUILT.									
ON WHAT STREET.	FROM	то	5 ft.	43 ft	4 ft	3] ft	3 ft.	2] ft	2 ft.	1 ft
		Amounts forward	1320	7723	7396	6149	3291	2856	27537	1604
Judd	Canal	20 f. E. of E. line								
Wilson	20 f. E. of E. line of do	20 f. W. of W. line							••••	4
Liberty		of do	••••	••••		••••			••••	8 8
Mitchell Barber	Sewer on Canal 20 f E. of W.line of do	of do								6
Catherine	66 66	of do								S(
Meagher May	6 f. S. of S. line of	66 66 F3								78
Elizabeth	66 66	Notthward							••••	3
Ada	6 f. N. of N. line of Lake	Southward								1
Sheldon		Northward								2
Bryan place Milwaukee av Quincy	Fulton st. sewer	N W. and S.E		••••						10
66		of Clinton 20 f. E. of E. line								6
Alley op. Bishop ct.		of Clinton 6 f. N. of N. line of	{							6
Reuben	" Madison	Washington								5 4
Totals-73,40)S feet		1320	7723	7396	6149	3291	2856	27537	1718

NORTH DIVISION.

LOCAT	TION OF SEW	ERS BU	ILT	•			LEN		F SEW	ERS
ON WHAT STREET.	FROM				то		41 ft.	2 1 ft.	2 ft.	1 ft.
N. Clark & Lincoln av. Sedgwick	North av Centre			ntre ant plac			3377	1698		
	Division			iden				3348		
Larrabee	Blackhawk Division		Ve	dder	••••		••••	$\begin{array}{r}1391\\874\end{array}$	••••	••••
North av Sedgwick	Clark Linden		Dea	arborn.				449	660	•••••
Larrabee	•• • • • • • • • • • • • • • • • • • • •			nomine			••••	•••••	650	· · · · · ·
Granger	Vedder Sedgwick			lls			· · · • •		$\frac{1538}{1021}$	
Goethe	·· · · · ·		•	• • • • •					1019	
Sigel		· · · · · · · · · · ·				· · · · · · ·	• • • • • • •		$\begin{array}{c} 1020 \\ 1018 \end{array}$	
White	Rush			ss		• • • • • •			80	
Whitney Hinsdale				stward. ss			 	•••••	$\frac{439}{163}$	
Hobbie Wendell	Larrabee Wells			emer anklin .				•••••	$\begin{array}{c} 564 \\ 426 \end{array}$	
Elm	"			"				••••	420	••••
Oak	Larrabee	••••		emer rket			• • • • • • •		$\begin{array}{c} 566 \\ 1571 \end{array}$	• • • • • •
W. Pearson	Franklin	• • • • • • • • •	We	ells	<i>«</i>					381
E Whiting	State Franklin			ss .rket			•••••••		· • • • • • •	350 369 '
Hills	Wells			stward						260
Wendell White			Ca	ss	 . .					289 321
Cass	Chicago av		Hi	nsdale .						601 1011
Franklin Bremer	No. of Oak Division			rision ethe			•••••			1916
Dearborn Grant place	North av Sedgwick			athward stward						149 265
								l]	ł
Sigel	ING SEWERS									3
-		WICK	1 8	Sedgwic	k				39	
Blackhawk	·· ·· ·· Well	s		, do, do f. do d					$ \frac{41}{55} $	
Hurlbut		ourn av.	8 f.	N. of	N. E.	line of				
Rees			56	Sedgwic f. W. a Carrabe	of W.		•••••		33 86	• ••••
Blackhawk			N.	E. 54 f.,	8.W.	60 f			114	
Halsted		••••••		f. S. of Lybour:					104	
LaFayette place		born	4 1	. W. of Dearbor	f W. 1	line of				66
Alley W. of Franklin Sedgwick place		sion	1	S. of S.	line o	f Div'n			•••••	$\begin{array}{r} 44 \\ 46 \end{array}$
Sedgwick			17:	f.		"	•••••			50
Twomey	peug	wick		f. W. o Sedgwic						47
Hein		••]4 f.	W. of W	J. line	of do .				36
Sullivan			6 f 5 f.				••••		• • • • • • •	39 39
North av		k born	9 f. 4 f	. E. of		Clark		• • • • • • •	•••••	46
			1)earbor	n					32
Ohio St Clair	" St. C 11 f. S. of S. lin	lair		f do. d f. N.of N						70 96
Halsted	Sewer on Clyb		54	f. N. of	N. E	line of	••••			
Mohawk			30	llybour f. do. d	n av	• • • • • • •	· · · · · ·		•••	$\begin{array}{r}100\\67\end{array}$
Hinsche			51	f. N.E.	of do.				•••••	51 54
Langdon Orchard	66 6	• ••		f S.W. f. N.E.			· · · · · · ·		•••••	50
Weed	66 6	• • •		f. W. of						55
Totals—29,124 fe	e t .		• • • •	• • • • • • •	•••••	•••••	3377	7260	11637	6850

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REPAIRS OF SEWERS.

The following table shows the repairs of sewers, catch basins and covers done during the past year. The effect of the raising to grade and paving of the streets in diminishing the cost of both the repairs and cleansing of the sewers begins to be apparent. Notwithstanding the great increase in the extent of the sewers, the cost of repairs is one-third less than for the previous year, while the cleansing account is nearly \$1,000 less.

REPAIRS OF SEWERS, CATCH BASINS AND COVERS FOR 1869-70.

DIWINONS	Re	pairs of S	Sewers.		of Catch Manholes.	Repairs o	f Covers.	Totals		
DIVISIONS.	Size	Ft. rep'd & relaid	'd Cost. No. repair'd		Cost.	No. rep'd &resto'd.	Cost.	Each Division.		
	Ft.									
South Division	21	106	\$585.00	40	\$410.97	595	\$1485.49	\$2,481.46		
West Division	2	150	823.82'	53	560.07	588	1470 77	2,854.66		
North Division	2 & 1	492	1015.04	18	175.77	399	999-33	2,191.04		
Totals		748	\$2424.76	111	\$1146.S1	1582	\$3955.59	\$7,527.16-1869-70 11,287.08-1868-69		

CLEANSING OF SEWERS FOR 1869-70.

	S. DI	VISION.	W. DI	VISION.	N. D	IVISION.	TOTALS.			
METHOD OF CLEANSING.	Feet Cleansed.	Cost.	Feet Cleansed.	Cost.	Feet Cleansed.	Cost.	Cleansed.		Per 100 ft.	
By Flushing	121,679	\$ 2 523.90	69,230	\$1,556.89	40,251	\$1,267.31	231,160	\$5,348.10	2.31	
By Chain Machine	39,861	3,940.30	27,582	3,528.03	9,821	1,883.18	77,264	9,356.51	12.11	
Main Sewers, with scrapers	9,981	472.50	46,156	2 158.49	16 430	745;84	72,567	3,406.83	4 69	
Totals-Sewers Catch Basins cln'd	171,521 No. of 1,174	6,936.70 2,678.20	142,968 781	, 7,273.41 2,802.53	66,502 780		380,991 No. of 2,735	18,111.44 7,903.74	Each	
Total Sewers and Catch Basins		\$9,614.90		10,075.94			For	\$26,015.19		

PRIVATE DRAINS.

Permits issued from April 1, 1869, to March 31, 1870:

DIVISIONS.		6 in.		9 in.	12 in.	Total,	Totals	Total	
DIVISIONS.	Private.	Special Assess't.	Total.				previously	April 1, 1870.	
South	355	438	793	24	13	830			
West	1296	795	2091	17	2	2110			
North	840	194	1034	5		1039			
Totals	2491	1427	3918	46	15	3979	15,824	19,803	

The above is respectfully submitted.

WILLIAM H. CLARKE, Principal Assis't Engineer.

Mr. Clarke's report shows the gratifying fact that, notwithstanding the unusual length of sewers laid last year, the expense of maintaining them has not increased. This is attributable mainly to the great increase in length of paved streets. It was observed before that the paving of the streets had an important effect in reducing the cost of cleansing the sewers, but this effect was never so manifest before.

For some time the practicability of still further reducing the cost of cleansing the sewers and catch-basins by the use of steam and the application of the pneumatic process, has been under discussion. Hitherto there have appeared to be practical objections, especially in the sticks and other rubbish admitted into the sewers and catch-basins, but it is hoped that before long the improved pavements and other means, will overcome those objections.

CONDITION OF THE RIVER.

The condition of the North Branch for several years past has been a frequent cause of complaint, and the call for some plan for purifying it is becoming more and more urgent.

The necessity of preventing the river from becoming offensive has been seen from the very commencement of the sewerage system of this city, and was provided for in the plan adopted; but, for reasons it would be useless to discuss here, that portion of the plan has never been carried out. It was hoped that by arranging the sewerage system so as to have but very little filth discharged into the North Branch, it might be many years before it would be necessary to carry out any expensive works to purify that stream. Up to this time it has not received five per cent. of the sewage of the city, and it is very difficult to see why it should be so foul, unless it is caused mainly by the distilleries on its banks. The vigorous measures of the Board of Health seem to have diminished very much the nuisances caused by those establishments, and yet there are offensive peculiarities in the North Branch almost impossible to trace to any other cause.

Of the numerous plans proposed for cleansing the North Branch, four classes may be mentioned, viz:

- 1st. Intercepting sewers.
- 2nd. Canals between the river and the lake.
- 3rd. Reservoirs high up the river.
- 4th. Artesian wells.

By intercepting sewers, it is proposed to prevent the drainage of the city from being discharged into the river, and thus avoid polluting it. Such sewers should be made near to and parallel with the river. They would necessarily be lower than the lake, and incline towards their outlet, requiring their contents to be pumped up. Here arises an important question as to whether there should be but one outlet for the whole city, and where that should be. A proper answer to this question must depend upon the right answer to the first, if not to all, of three others, viz :

1st. What is to be the final use or disposal of the sewage of the city?

2nd. What the probable cost of any plan of intercepting sewers?

3rd. The cost of maintenance?

The proper or best disposal of city sewage has been the subject of much inquiry and extensive experiments in Great Britain and on the continent of Europe, during the last twenty years. The course of all these has been observed with great interest here. The result thus far seems to be that no city containing a population of 100,000 or upwards, has been able to utilize the contents of all its sewers in the irrigation of land, and yet, of all the methods hitherto tried, this has by far the greatest number of able advocates, both in England and France. The attempt to manufacture sewage into solid manure has proved a commercial failure. The process of deodorization by means of lime or chemicals is enormously expensive, and has not proved satisfactory in its results. As yet there seems to be no alternative for large cities but to discharge the contents of their sewers into some running or large body of water, and at the nearest point compatible with public health. What the future may develop it is difficult now to foresee, but in the light of experience thus far gained, the strong probability is that the ultimate receptacle of the sewage of this city must be the lake, either from the river, or from the outlets of intercepting sewers. In the latter case, the contents of the intercepting sewers would descend towards the lake, and there be pumped up. If, however, irrigation of the land should ever prove advantageous here, then the intercepting sewers should incline towards the districts to be fertilized, and their contents there pumped up.

The dry earth system, including the use of earth-closets, has some advocates, but is not yet known to have been introduced extensively into any large European city, and does not grow in favor, as it was hoped would be the case. If this system could be carried out, it would be more applicable than irrigation to a climate like ours, very cold part of the year; but the objection to giving up water-closets, inside of respectable dwellings, for earth-closets, seems to be very great to most persons. Besides, human excrements, though undoubtedly the most valuable portion of the sewage of a city, do not constitute one-fifth part of it. How the remainder is to be successfully treated by the dry earth system, is a problem not yet solved.

The probable cost of a complete system of intercepting sewers for the whole city, would depend upon the district and population it might be determined to provide for. From different trial estimates, it would be safe to say that such a system could not cost much if any less than \$3,000,000.

The cost of maintenance would necessarily depend upon the plan adopted with regard to outfalls and machinery, as well as the population to be provided for, and could not, therefore, be the same year after year, unless the city should cease to grow.

Canals between the lake and the river, on various lines and of different dimensions and forms, almost countless in number, might be proposed. The result of investigation with regard to what the city has the power at present to do, leads to the recommendation of a covered canal or conduit, circular in form and 12 feet in diameter, on the line of Fullerton avenue, with the requisite machinery for pumping or driving water in either direction, near the North Branch. Such a canal would be two miles long and, with a bottom 24 feet below low water and a head of $4\frac{1}{2}$ feet, could be made to discharge 24,000 cubic feet per minute, or sufficient to change all the water in the North Branch and main river every thirty-six hours.

The estimated cost of the canal is \$480,000, including machinery. The machinery recommended is a 300 horse-power engine and a propeller wheel so placed as to draw or drive the water in the direct line of the canal.

To avoid a large portion of the estimated cost of a covered canal, it has been proposed to make an open one. The damage to real estate alone, by such a work, would probably be greater than the entire estimated cost of the covered canal. A navigable canal has also been proposed, sufficient to pass the largest vessels navigating the lakes, thus creating four miles of additional dock front, and rendering it much less expensive to force the necessary quantity of water either into or out of the river, because six inches difference of level in the navigable canal, would produce more effect than sixty would in the proposed covered one. But both the authority and propriety of the city's undertaking such a work are very doubtful.

This is perhaps the most proper place to mention that some of our ablest citizens have started the project of a ship canal between the North Branch and the lake, two and a half miles north of the city limits, where the ground is very favorable for such a purpose, and the land much cheaper. Should this work ever be carried out, and the North Branch be made navigable to it, the owners of such a canal could easily supply the current desired, and a much greater one than it would be practicable to supply through the covered canal.

To avoid the expense of steam machinery for producing the requisite current in the covered canal, it has been proposed to construct a long basin, with sloping sides, on the lake shore, and let the winds and waves drive water enough into it to supply the canal. Besides the various doubts with regard to the working of such an arrangement, the necessity of always relying upon a current from the lake into the river would be very objectionable.

It is expected that by next spring the South Branch will be drained into the Illinois river, through the deepened canal, but it was never supposed that this would purify the North Branch. If the North Branch must discharge its filth, in all stages of the stream, and at all seasons of the year, into the main river, then the water to flow from the main river into the South Branch, instead of being drawn from the lake, would be the foul discharge of the North Branch. It is easy to see that in that case there would be great disappointment with regard to the expected benefit of deepening the canal. It would therefore be necessary, in constructing a canal between the North Branch and the lake, for the purpose of purifying the former, to provide for discharging into the lake, whenever there might be very little or no natural current in the river. A reservoir high up the stream, sufficient to supply for one month the quantity it is proposed to drive through the covered canal, would, it is estimated, cover about 2,500 acres. When it is considered that not merely one month's supply, but four, and possibly six or even more, might be needed, it seems useless to discuss such a plan. But if the great cost of this plan did not stand in the way, the impossibility of producing any current, except towards the mouth of the river, would be a great objection. Besides, the necessary exposure of such large surfaces as a reservoir would cover, by the drawing down of the water, in warm weather, could not be tolerated.

Supposing it practicable to get water enough from artesian wells to produce the requisite current, leaving out of view the objection that it would be impossible to turn that current from its natural course into the main river, the number of such wells, judging from the most successful one yet bored in this city—that of the Union Stock Yard Co.—would have to be 405, that is, if 24,000 cubic feet per minute should be required. All experience thus far, in other cities and countries, where many artesian wells have been bored, goes to show that their enlargement, either in size or number, does not produce a corresponding increase in the quantity of water furnished. There is no good reason why a different result should be expected here, but strong proof to the contrary.

In view of present knowledge and experience, it does not seem advisable to commence the construction of a system of intercepting sewers just yet, though the probability of having to do so ultimately seems rather to increase from year to year. More time seems to be needed to determine upon all the conditions that should be required of such a system.

If nothing more can be done to prevent nuisances in the North Branch, and the measures of the Board of Health seem to discourage hope in this direction, then the most advisable course the city has power at present to adopt appears to be to construct the proposed covered canal on Fullerton avenue, and for the following reasons:

1st. It could be made to discharge either into the lake or the river, as circumstances might require. During wet seasons, in

the spring and fall, nothing is needed besides the natural flow to cleanse the river. An artificial current from the river to the lake would be needed when that of the river was very slight, and in an opposite direction when the natural discharge from the North Branch was too great to be overcome by the amount the canal could discharge into the lake, and yet not strong enough to cleanse the river.

2nd. It could be made the outlet of a system of intercepting sewers for the northern portion of the city, supposing the limits to be extended by future legislation, several miles further north.

3rd. It would afford a very convenient and economical outlet for the sewers of a large part of the district likely to be annexed to the city north of the present limits, between the lake and the river. It is doubtful if, in view of the probable future growth of the city, a better location could be selected for the outlet of a northern system of intercepting sewers.

An apparently serious objection has been raised to this plan. It is that the outfall of sewage on the lake shore, at the end of Fullerton avenue, would create a nuisance on the Lake Shore Drive.

There can be no doubt that the water of the lake shore would be sometimes discolored when it might otherwise be clear; but lake water enough introduced into the North Branch to render it inoffensive to the smell, and then discharged through the proposed canal into the lake, would be equally inoffensive.

Let what may be done, such a city as this cannot get rid of all its filth without producing something unpleasant to sight or smell somewhere, and no more convenient or economical receptacle for the whole of it can be suggested at present than the lake, if the objectionable condition of the North Branch is to be remedied.

HARBOR.

The necessary works for the preservation of the entrance to the harbor have been performed by the National Government entirely, even to the maintaining of a light at the end of the north pier extension.

The past year will be of special note in the history of this city, in consequence of the construction of what may be considered the beginning of a system of outside docks or harbors, by the Chicago Canal and Dock Co., on the north side of the north pier extension. Plans have also been formed by the Government for the extension of the south pier, and the commencement of a harbor of refuge south of this pier. These, together with the extensive works the Illinois Central Railroad Co. are carrying out, will soon make a great change in the map of that part of the city.

WASHINGTON STREET RIVER TUNNEL.

This work continues to prove its importance to the city, by the increasing use made of it. There are times already when a line 1,000 feet long of vehicles, as near to each other as they could be safely, may be seen passing through it.

The leakage at the west end has been very much diminished, and with the exception of the appearance of damp walls, has ceased to be annoying.

LASALLE STREET RIVER TUNNEL.

The City Council, having decided that the tunnel under the main river should be on LaSalle street, plans and specifications were prepared, proposals advertised for and received by the Board, and the work let to Mr. R. E. Moss, of this city. Mr. Moss and his associates, Messrs. George Chambers and A. J. McBean, commenced the construction of their north coffer dam on the 3rd of November, 1869, and had, by the 31st of March, completed the masonry of the tunnel from the centre of the river to 50 feet north of the north dock line.

The preparation of the plans and the immediate supervision of the work have been committed to Mr. William Bryson, who so satisfactorily performed the same duties on the Washington street river tunnel.

In its main features, this tunnel is like that on Washington street, but in some respects it is believed that it will be a decided improvement on that work. The steepest grade, instead of being 1 in 16, will be 1 in 20, which will of course make the 'approaches longer. The south one will begin about 40 feet north of Randolph street, and the north one terminate at Michigan street. The freer use of asphaltum, by laying two courses of brick in it, over the arches in the river section, already gives proof that this tunnel will be much dryer than the other, although leakage has not been entirely prevented. The footway will have two feet more of head room, which, it is believed, will add much to its comfort.

There is good reason to believe that this pressingly important work will be satisfactorily completed by the time required in the contract, July 1, 1871, when a description of it, together with the difficulties encountered in its construction, may be expected.

Respectfully submitted.

E. S. CHESBROUGH, City Engineer.

FINANCIAL STATEMENT.

TRIAL BALANCE LEDGER, BOARD OF PUBLIC WORKS, MARCH 31, 1870.

WATER DEPARTMENT.

		Dr.		Cr.	
Water Works		\$3,676,698	65		
Water Works Income				\$3,142,404	49
Water Fund in hands of City Treasurer		48,667	46		
Water Loan Bonds, 6 per cent				1,030,000	00
Water Loan Bonds, 7 per cent				2,290,000	00,
Water Loan Interest		1,368,029	96		
Water Expense and Repairs		1,139,803	71		
Discount on Water Loan Bonds, 6 per cent		38,358	88		
Duncan, Sherman & Co. (Coupon account)		9,261	00		
Water Works Coal account	• • • • • •	1,304	84		
Water Works Stock account		32,142	70		
Water Works New Engine		706	04		
Water Pipe account	• • • • • • •	101,707	23		
Water Works Service-cocks		5,702	99		
Water Pumping Works account		7,903	55		
R. D. Wood & Co				14,256	75:
Wm. Smith	• • • • • •	146	46		
Warren Foundry and Machine Company	• • • • • •			12,107	95
Van Buren Street Water Service pipe		1,757	04		
Clark Street " " …		1,019	86		
Halsted Street " "		1,042	53		
Blue Island Avenue " "		780	11		
Adams Street " "		650	03		
Washington Street " "		1,979	88		
Amounts carried forward	\$	\$6,437,662	92	\$6,488,769	19
9					

Amount brow	ught for	rward		6,437,662	92	\$6,488,769	19
West Adams Street				2,048			
Prairie Avenue	"	"	••••••	1,106	20		
Harmon Court	"	"		. 163	22		
Twelfth Street	""	66		1,883	29		
Sangamon Street	"	"		1,324	52		
Clinton Street	"	" "	• • • <mark>•</mark> • • • • • • • •	2,713	64		
Canal Street	66	66		3,069	92		
Jefferson Street	66	46		786	87		
Dearborn Street	"	" "		3,680	11		
Huron Street	66	" "		899	54		
N. Wells Street	"	"		1,536	40		
Lake Street	"	"		5,366	44		
Monroe Street	"	66		409			
Pine Street	"	"		413	42		
Ohio Street	"	"		503	75		
Division Street	"	66		448	29		
DesPlaines Street	"	"		1,518	71		
Madison Street	" "	"		8,211	48		
Eighteenth Street	"	"		720	12		
Kinzie Street	"	66		140	50		
Polk Street	"	66		366	08		
Wabash avenue	"	66		1,916	65		
Fourteenth Street	"	66		72	24		
Indiana Avenue	"	"		935	67		
Calumet Avenue	"	"		611	00		
Randolph Street	66	66	• • • • • • • • • • • •	1,534	90		
Harrison Street	"	"		1,044			
Park Avenue	"	"	• • • • • • • • • • • •	1,486			
Archer Avenue	• 6	"		1,669			
Jackson Street	"	"		1,590			
Ohicago Avenue	66	"		186	33		
North Avenue	"	"		846	91		
Clybourn Avenue	"	"		851	00		
LaSalle Street	"	"		1,049	98		

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\$6,488,769 19 **\$6,488,769 19**

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WATER FUND.

STATEMENT of the cash receipts by the Board of Public Works, from April 1, 1869, to March 31, 1870, inclusive, and detailed statement of the cost of various operations conducted by the Board during the same time:

RECEIPTS.

Proceeds of 600 Bonds, including interest	573,163	73		
Water Tax collected	477,170	74		
Received for Tapping Pipes	15,008	78		
Received for Letting on Water		55		
Received for Setting Meters		71		
Received for sale of Hydrants, Pipe and Labor	6,769	56		
Received from Special Assessments	8,927	20		
Received for Work at Shop and Labor	832	99		
Received from Plumbers' Licenses	69	00		
Sand sold	190	00		
Old Iron	100	00		
Coal sold	504	86		
Stop cocks sold	52	50		
Lumber sold	9	15		
Dredging Machine	187	50		
		• •	\$1,087,079	27
Balance due City Treasurer, April 1, 1869			12,390	49
			\$1,074,688	78

NINTH ANNUAL REPORT OF

EXPENDITURES.

ADDITION TO WATER WORKS.

DISTRIBUTING PIPES AND SUPPLY MAINS LAID.

Cash Payment. Irue Cost.

Quet income to a 1 0 10 10 and 04 in @200.0	01	00
Cast iron pipe, 4, 6, 8, 12, 16 and 24 in\$302,0 Trenching and backfilling		
	10	
—		
Lead		67
Constructing Chicago Avenue and 24,4 Division Street Tunnels		
Castings 10,3	33	80
Cement 1,9		06
Brick 5.7	87	55
Distributing pipe 7,6	72	21
Horse shoeing	34	90
Macadam 2-	47	70
Assistant Engineer 7	80	00
Advertising 3	40	58
Pipes 4	78	82
-	79	89
	02	25
-	42	25
Tape line	4	00
	30	22
Pat. fee on Hydrants	25	00
· · · · · · · · · · · · · · · · · · ·	03	55
	04	90
	22	50
	15	30
	52	14
	95	35
Candles	8	25
	75	00
· · · · · · · · · · · · · · · · · · ·	07	29
Sand 2	10	00
Coal	56	00
	78	38
	17	64
	81	32
	12	25
	11	85

Amount carried forward......\$448,334 63

THE BOARD OF PUBLIC WORKS. 133

			Cash Daw		Tune Ca	
Amount brought forward	\$448 334	63	Cash Payn	nent.	. True Co.	st.
Lead kettles						
Oil		35				
Lumber						
	101		\$448,979	95		
ADD—			ψττυ,υτυ	~0		
Pipe used previously paid for	\$33,863	96				
					•	
New hydrants, stop-cocks, and labor)	1 = 0.40					
at shops \ldots	15,046	30				
	\$75,746	53				
DEDUCT-						
Labor and material for private parties.	10,073	24				
• •						
	\$65,673	29			\$514,652	54
NEW ENGINE HOUSE.						
J. Clark & Bro., paid in full	\$2,847	94				
A. Wallbaum, ""						
F. Letz & Son, " "						
Floor and tiles	179					
Repairing roof.	- · ·					
Gas fitting						
Painting and glazing	1,828					
Paid Architect in full	1,134					
Heating apparatus	293					
Brass screws		15				
Brick	660	00				
Extras to A. Wallbaum	55	00				
			8,441	67		
Add—			,			
Some incomposed and deducted from)						
Scrap iron sold and deducted from F. Letz' estimate	\$1,240	05				
Labor at shop	590	65				
p			1,830	70	10,272	37
			_,			
NEW TOWER.						
Paid A. Wallbaum in full	\$736	80				
Sign and paint	-	00				
F. Letz & Son (Est. No. 4)	1,077	50				
Paid Architect in full	976					
Two No. 3 valves	1,300	00				
			4,095	57	4,095	57
Amount carried forward			\$461,516	49	\$529,020	48

NINTH ANNUAL REPORT OF

Amount brought forward	Cash Payment. \$461,516 49	True Cost. \$529,020 48
NEW INLET.		
Paid Fox & Howard for dredging	1,385 00	
Add-		
Labor moving sand	\$100 03	
DEDUCT-		
Amount received for sand sold	190 00	
-	\$89 97	1,295 03
NEW ENGINE.		
Stationery and labor charged Pumping Wo	orks	706 04
Total addition to Water Works	••••••• \$462,901 49	\$531,021 55

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WORKING EXPENSES AND REPAIRS.

EXPENSES AT PUMPING WORKS.

		Cash Payment.	True Cost
Salary of engineer and assistants	\$7,680 00		1740 0031.
Labor	20,634 08	8	1
$8,769_{2000}$ tons of coal	59,151 80	0	
Iron and nails	1,020 7	7	
Oil, etc	1,174 2	õ	
Castings	9,317-10	0	
Gas	$952\ 13$	3	
Traveling expenses to New York	178 76	6	
Saw and table	66 40	0	
One No. 1 drill	191 00	0	
Pipe	761 79	9	
Hardware	216 36	6	
Lumber	891 31	1	
Bolts and washers	444 28	8	
Keeping horses	1,090 40	6	
Packing	165 98	8	
Repairing boilers	418 11	1	
134 loads of dirt	67-00	0	
Fodder cutter	17 00	0	
Chain	10 50	0	
One horse	$150 \ 00$	0	
Harness and repairs	55 90	0.	
One vice	77_{-9}	5	
Plumbing	$43 \ 0'$	7	
Waste	$112 \ 08$	8	
Drain pipe	40 75	5	
Sole leather	72 78	8	
Brooms	14 80	6	
Chambers	96 43	2	
Repairing roof	$74 0^{\circ}$	3	
Pails	3 00	0	
Soap	32 03	5	
Sundry cash items	$32^{-}93$		
Scale	63 23	5	
Draughtsman	101 50	0	
Amount carried forward	105,419 64	-	

Amount brought forward	d	\$105,419	64		
Gas fitting			62		
Repairing wagon		112			
Engraving engine		470			
Rope and oakum			40		
Jute twine			23		
Handles			01		
Grading lot		36	00		
Coal, Bloss		74	50		
Horse blankets			00		
Brass tubes				•	
Scavenger work			00		
Photographing		17			
Lead and packing		672			
Paint			10		1
Stationery		38	80		
Speaking tube		25	00		
Tape line		10	50		
Rubber clothing			75		
Ice			15		
Grind stone			00		
	• • • • • • • • • • • •	10			
				\$107,225 68	
ADD-	-			\$101,220 OC	
Castings rec'd and paid for					
	#0.000 .00				
with scrap iron	\$2,800 80				
Coal used prev'ly paid for.	828 57	, ,			
	@9 690 95		017		
DEDUCT—	\$3,629 37	\$3,629	51		
Hydrants, stop-cocks and					
labor used for and cha'gd					
to extension repairs and					
other water accounts	\$27,289 98	;			
Labor at shop in 1868	859-39				
Material paid for and now					
on hand	1,520 62				
	1,020 02	, • \$29,669	00		
		φ~0,000			
		\$26,040	62		
		****			\$81,185 06
LAKE TUN	NEL.				- /
Kooper of still		#10.1C	0.0		
Keeper of crib		\$949			
Oil		178			
Supplies		10	00		
Coal		25	00		
					A01 107 00
Amounts carried forward	•••••	\$1,162	25	\$107,225 68	\$81,185 06

THE BOARD OF PUBLIC WORKS. 137

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	<i>bull</i> 0	0.		
			Cash Payment.	True Cost.
Amounts brought forward	@1 1.69		\$107,225 68	
Amounts brought forward	$0.05 \\ 0.1,105 \\ 1,166$		·p101,220 00	φ01,100 00
Use of tug		50		
Lamp glass, etc	-	00		
Draughtsman Hardware		21		
Boat		$\frac{21}{00}$		
Examining shaft	207			
Examining shart				
			\$2,729 46	
ADD-				
Labor at shop in 1869	\$23	75		\$2,753 21
OFFICE EXPENSE AND SALARIES	8.			
Salaries of Commissioners	3,999	96		
Salaries of Secretary and assistant	1,433			
Salary of City Engineer	1,500	00		
Salary of book-keepers and clerks	3,548	92		
Salary of Superintendent	1,000	00		
Salary of Assistant Engineer	773			
Salary of Draughtsman	2,716	63		
Salary of Janitor and Watchman	615			
Salary of Water Assessor and assistant.	3,506	58		
Salary of Collectors	4,900			
Office clerks	2,862			
Printing	1,170			
Stationery	1,632			
Revenue stamps	221			
Furniture and repairs	161			
Oil		32		
Car fares		00		
Hardware	138			
Plumbing		72		
Advertising.	934			
Engraving	845			
Pipe fitting	131			
Office rent.	2,300			
Subscription to papers		63		
Express on bonds	271			
Telegrams		95		
Horse feed	113			
Engraving bonds	137			
Gas	196			
Washing towels		00		
11 aouing 10 14 Cis	~0			
Amounts carried forward	\$35,326	74	\$109,955 14	\$83,938 27

NINTH ANNUAL REPORT OF

			Cash Payment.	True Cost.
Amounts brought forward	\$35,326	74	\$109,955 14	\$83,938 27
Lumber	96	66		
Ice	28	19		
Labor	1,575	92		
Miscellaneous cash items		09		
Calcimining office	12	34		
Rent of stable lot	41	67		
Sprinkling	15	00		
Warrant 369 overpaid	57	49		
Inspectors	375	00		
Interest on loan		60		
Cost of water warrant		35		
Coal	133			
New awnings		00		
Coal	561			
4			38,408 68	
ADD— Labor et abor in 1969	@01	00		
Labor at shop in 1868 \$91 00	91	00		
Deduct-				
Am't rec'd from water serv-				
ice pipe assets 1,204 18				
Amo'nt rec'd from plumbers				
license				
Voucher canceled				
\$1,357 06	1,266	06		
• /	,			37,142 62
REPAIRS OF PIPE, HYDRANTS, STOP-CO	CKS AND			
MISCELLANEOUS OPERATING EXPE				•
		17 5		
Labor	\$28,192			
Hydrant inspectors	5,247			
Repairing Chicago avenue main	9,011			
Pipe used	1,090			
Assessments on reservoir lots	1,221			
Repairing wagon		75		
Cement	177			
Brlek		00		
Repairing leaks	221			
Rope, etc.	28			
Lead	842			
Repairing State street main	666			
Plumbing	342			
Sundry cash items	18	25		
Amounts carried forward	\$47 092	44	\$148,363 82	\$121.080.89
Lenour of the control of the the test	Ψ1,00N	17	φ110,000 02	φr≈1,000-00

THE BOARD OF PUBLIC WORKS.

		0	Cash Payment.	True Cost.
Amount brought forward	\$47,092	44	\$148,363 82	\$121,080 89
Iron works		45		- /
Express on diving apparatus	4	00		
Dredging at State street	83	95		
Dredging at Adams street	616	12		-
Lumber	141	20		
Horse shoeing		20		
Castings	306			
Repairing lamps		75		
Rent of block 77, school section	900			
Shutting off water		00		
Sewerage works		00		
Car fares		00		
Hardware		89		
Salt		00		
Damage by water Oakum		$\frac{50}{62}$		
Painting		75		
Damage to Buggy		00		
Stationery				
Advertising				
Printing				
Coal used	-			
ADD-			51,720 78	\$
Hydrants and Stop cocks				
used\$6,828 41				
Repairing permanent tools . 1,670 57				
Watching reservoir, grading				
lot, etc				
Depreciation in meters 6,183 00				
	\$15,302	62		
DEDUCT Pageiged for shutting off and				
Received for shutting off and letting on water \$963-32				
Received from water service				
pipe assessments 905 53				
Received from old iron sold. 100 00				
	1,968	85		
	<u> </u>	1947		
WATER METERS.	\$13,333	1.1		65,054 55
78 new meters	\$5,069	27		
Machinist				
Labor	1,888			
			·	
Amounts carried forward	\$8,202	79	\$200,084 60	\$186,135 44

			C I D		True Cost
Amounts brought forward	\$8 202	79			st. True Cost. \$186 135 44
			φ~00,00±	00	φιου,100 11
Castings Printing		00			
Oil		00			
Hardware.		78			
Meter counters	36	50			
Plumbing		42			
Iron and nails		50			
Lumber	268	48			
Pipe Fitter	833	30			
Stationery		64			
Freight on meters		19			
Rubber clothing	13	25			
			11,056	05	
App			11,000	90	
ADD— Labor at shop	\$10	48			
DEDUCT—	φισ	10			
New meters charged stock. \$4,510 00					
Amount received for setting					
meters					
	7,471	71			
	\$7,461	23			3,595 72
Total operating expenses			\$211,141	55	\$189,731 16

NINTH ANNUAL REPORT OF

MISCELLANEOUS.

Cash Payment. True Cost. SERVICE COCKS. Taps and cast iron boxes purchased\$11,497 00 Services of tappers and labor..... 5,011 25 Permit clerks 1,403 33 Advertising 106 89 Four permits not issued...... $16 \ 40$ Horse feed..... 163 32 One wagon..... 145 00 Repairing wagon..... 67 30Horse shoeing..... 73 00 Harness 23 10 Hardware 12 45 51 65 Stationery Oil, etc 5 01One Horse..... 125 00Use of horse 35 0017 99 Plumbing Sewer pipe 63 60 Coal used 14 88 \$18,832 17 ADD-Addition to stable for tappers \$208 61 Tappers' tools, includ'g wagon 1,393 50 \$1,602 11 DEDUCT-Cash receipts for tapping.\$15,008 78 Service cocks sold 62 25 15,071 03 \$13,468 92 \$5,363 25 COAL ACCOUNT. 504 86 Coal purchased and not used..... 504 86 WATER PIPE. Pipe purchased and not used..... 79,077 11 79,077 11 INCOME. Tax overpaid refunded..... 202 50 202 50 Amount carried forward..... \$98,616 64 \$85,147 72

WATER SERVICE PIPE.

Cash Payment. True Cost.

Amount brought forward		\$98,616 64	\$85,147 72
Van Buren street	\$1 757 04		
N. Clark street	1,019 86		
Halsted street	1,042 53		
West Adams street	650 03		
Washington street	1,920 44		
Adams street	1,284 42		
Prairie avenue	1,106 20		
Twelfth street	1,767 69		
Sangamon street	1,428 02		
Clinton street	2,713 64		
Canal street	3,219 22		
Jefferson street	894 42	;	
Dearborn street	3,807 91		
Huron street	899 54	:	
North Wells street	1,558 40	· ·	
Lake street	5,440 14		
Monroe street	$409 \ 60$		
Pine street	$413 \ 42$		
Ohio street	$503 \ 75$		
Division street	448 29		
Desplaines street	1,607 94		
Madison street	8,313 44		
Eighteenth street	720 12		•
Kinzie street	140 50		
Polk street	366 08		
Wabash avenue	1,916 65		
Fourteenth street	72 24		
Indiana avenue	935 67		
Calumet avenue	611 00		
Randolph street	1,534 90		
Harrison street	1,044 18		
Park avenue	1,486 60		
Archer avenue	$1,669\ 15$		
Jackson street	1,590 68		
Chicago avenue	186 33		
North avenue	846 91		
Clybourn avenue	851 00		
La Salle street	1,049 98		
Deduct amount received from assessments	6,901 74	57,227 93	Ro Noo Jà

Total miscellaneous expense

50,326 19

\$155,844 57 \$135,473 91

WATER LOAN INTEREST.

Interest on Water Loan Bonds July 1st,					
1869		71			
Interest on Water Loan Bonds January					
1st, 1870	88,621	00			
Coupons paid by City Treasurer	26,225	00			
			\$196,133	71	
ADD-			•		

Amount	transferred from Discount Ac		
count.		\$4,279	22

\$200,412 93

RECAPITULATION—WATER FUND.

Total Addition to Water Works brought forward.	\$462,901	49	\$531,021	55
Total Operating Expenses brought forward	211,141	55	189,731	16
Total Miscellaneous Expenses brought forward	155,844	57	135,473	91
Total Water Loan Interest	196,133	71	200,412	93
Totals\$	1,026,021	32	\$1,056,639	55
Total Cash Expenditures\$1,026,021 32				
Balance in Treasurer's hands April				4
1 st, 1870 48,667 46				
\$1,074,688 78	l			
Total Receipts for year\$1,087,079 27				
Due City Treasurer April				
1st, 1869 12,390 49				

SEWERAGE DEPARTMENT.

TRIAL BALANCE, LEDGER, BOARD OF PUBLIC WORKS, MARCH 31, 1870.

	Dr.		Cr.
Sewerage Fund due City Treasurer			\$55,835 80
Sewers, North Division	\$580,407	28	
" South Division	812,548	21	
"West Division	1,220,867	80	
S. Lynd, Treasurer of Sewerage Commissioners.	109,245	48	
Sewerage Loan Bonds, 6 per cent			87,000 00
" " " per c+nt			2,538,000 00
" " cancelled			200,000 00
" Sinking Fund			89,868 40
" " " Mortgages	6,245	28	
Discount on Sewerage Loan Bonds	19,266	71	
Sewerage Loan Interest	56,477	54	
" Brick	25,669	18	
" Pipe	11,456	35	
" Stock	2,694	45	
American Exchange National Bank coupon ac't.	4,895	00	
Sewerage Sinking Fund in hands of City Treas'r.	70,369	73	
" Manhole and Catch Basin Covers	4,146	60	
" Expense and Repairs	16,036	19	
South Park Avenue Sewer	334	00	
House drains			2,104 19
T. W. Phinney			$320 \ 05$
S. S. Hayes			1,069 50
William Giles			$381 \ 72$
Chas. Messenger			339 87
C. T. Bowen			118 98
Dennis Coughlin	1,561	51	
Z. Cobb	31	53	
Chicago, Burlington and Quincy R. R. Co			6,744 01
Owners lots 1, 2, 7 and 8, block 5, J. R. & S. add.	94	54	
Amounts carried forward	\$2,942,347	38	\$2,981,682 52

THE BOARD OF PUBLIC WORKS.

	Dr.		Cr.
Amounts brought forward		38	
Healy Slough improvement	72		
N. Clark Street drains	73	87	
S. $\frac{1}{2}$ lot 5, block 123, School Section	22	18	
N. State Street drains	582	82	
W. Adams Street "	2,070	80	
W. Madison " "	7,815	73	
S. Wells """	405	96	
Washington " "	96	25	
LaSalle " " "	3,630		
Michigan Avenue "	648		
Halsted Street "	2,224		
Clark " "	745		
Indiana Avenue "	198		
		69	
	157		
	232		
	1,177	00	
	0 175	00	325 00
	3,475		
UIIII(0II	1,626		
N. Dearborn " " Twelfth " "	2,504 330		
W. Lake ""	3,857		
Filling N. Market Street.	1,205		
Filling Harrison and Polk Streets	1,203		
Polk Street drains	127		
Jefferson Street drains			
N. Wells ""	448		
Randolph " "	641	_	
Eighteenth " "	391		
W. Washington Street drains	1,537	51	
Wabash Avenue "	1,379		
Division Street "	298		
Fourteenth Street "	75	00	
Calumet Avenue "	736	65	
Harrison Street "	969	00	
Jackson " "	396	00	
South Park Avenue "	2,197	75	
North Avenue "	1,661	75	•
Kelly, Langan & McGrath, Contractors			1,958 00
Brown & Flannery, "			1,389 97
Woodruff & Raffin, "			$1,695\ 25$
Galena and Chicago U. R. R. Co			382 55
	\$2,987,533	29	\$2,987,533 29

SEWERAGE FUND.'

STATEMENT of the cash receipts by the Board of Public Works, from April 1, 1869, to March 31, 1870, inclusive, and detailed statement of the cost of the various operations conducted by the Board during the same time:

RECEIPTS.

Proceeds of 825 seven per cent. Bonds\$785,853 20Received from City, account of Sewerage Tax, 1368,21,308 62	
"""""1869, 280,387 61	
" " Temporary Loan 27,000 00	
House Drain Permits issued 12,639 27	
Received from Private Drains	
Brick sold	
Pipe sold 1,048 40	
Covers sold	
Private Drain Assessments 2,947 55	
Received for const. South Park Avenue sewer 1,134 24	
" " labor and material 497 02	
" " contract forfeit 400 00	
Sheeting sold	
Vouchers cancelled	
Drain-layers' license	
\$1,1	67,479 97
Balance due Treasurer, April 1, 1870	55,835 80
·	

\$1,223,315 77

EXPENDITURES.

Cash Payments. True Cost.

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SF	WEE	RS, NORTH DIVISION.		С	ash Payments.	Tru
			@ 9 696	90		
		;				
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-		••••••••••••••••••••••		92		
		••••••••••				
		•••••••••••••••••••••••••••••••••••••••		80		
		••• •••		$\frac{20}{48}$		
		•••••••••••••••••••••		45 83		
		•••••••••••••••••		00 50		
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		• • • • • • • • • • • • • • • • • • • •				
		•••••••••		37		
		• • • • • • • • • • • • • • • • • • • •		50		
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		• • • • • • • • • • • • • • • • • • • •		00		
		• • • • • • • • • • • • • • • • • • • •		00		
water used	• • • •		48	07	\$19,319 25	
ADD-		· · · · · · · · · · · · · · · · · · ·			<i>\[\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	
Expense of s	ewer	, Oak street	\$ 2,453	32		
.	66	N. Clark street	37,035	07		
	"	North avenue	2,137			
"	66	Larrabee street	8,807	32		
66	66	Whitney street	1,391	50		
"	"	Wendell street	698	77		
"	"	Sedgwick street	18,204	16		
66	"	Elm street	642	52		
"	66	Schiller street	2,553	81		
د د	"	Siegel street	2,560			
"	64	Goethe street	2,304			
"	"	Cass street	857			
66	"	Franklin street	1,131			
66	"	Bremer street	2,316			
""	44	Grant street	229			
66	"	Pearson street	844			
66	66	Hill street	242			
46	66	White street	600			
		4				
Amounts	s car	ried forward	\$85,012	46	\$19,319 25	

NINTH ANNUAL REPORT OF

		C	ash Payments.	True Cost.
Amounts brought forward	\$85,012	46	\$19,319 25	
Expense of sewer, Hinsdale street	432	34	·	
" Granger street	2,491	17		
N. Clark street sewer	340			
Labor on Pay-roll charged South Div.	747			
	147			
Proportion of int. on Temporary I an.				
Proportion of discount on Bonds sold.	6,524			
Cement used		31		
Depreciation in stock	216			
Covers used	783			
Brick used	3,302			
Pipe used	2,800	46		
	b100.004	40		
	\$102,824	49		
Amount rec'd for plumbing\$ 3 65				
I 0 .				
Pipe charged house drains1,237 25	1,240	90		
	1,~10			
6	\$101,583	59		\$120,902 84
SEWERS, SOUTH DIVISION.				
Inspectors and labor	\$18.367	91		
Engineer and Assistants		98		
Cement				
Constructing sewers	1,142 240			
Sand used				
Lumber				
Chain, oakum, etc		50		
Plumbing		93		
Hardware		17		
Ft. on lumber		00		
Oil, etc	9	68		
Nails, etc	5	33		
Pipe		50		
Lanterns		00		
Cement		73		
Keeping horse		26		
Rubber clothing		00		
Repairing wagon		92		
		49		
Stationery		+ <i>J</i> 0 00		,
Car fares				
Advertising		5 80 . <i>aa</i>		•
Water used	48	8 66	\$24,968 43	
			Ф24,900 49	
ADD-	A 000	07		
Expense of sewer, Thirteenth street		87		
" " Douglass place	98,291	05		
Amounts carried forward	\$98,620	92	\$44,287 68	\$120,902 84
remounts carried for ward	φυσ,020	02	<i>will, 201 00</i>	,,

					ash Payments.	
		ught forward			\$44,287 68	\$120,902 84
Expense	of sewer,	Kankakee avenue .				
	"	Purple street				
		Wentworth avenue				
		Prairie avenue				
		Thirteenth street	1,254			
	"	Deering street	6,734			
		Main street	7,208			
	66	Stewart avenue		30		
"	"	Archer avenue	-,,			
	66	Fourteenth street.	1,988			
"		Indiana avenue	6,255			
66	66	Calumet avenue	2,378			
"	66	Michigan avenue				
"	66	Wabash avenue	2,385			
"	66	State street	- ,			
66	"	Twenty-third st				
66	66	Seventeenth street.				
66	66	Twenty-ninth st	,			
66		Twenty-fifth street.				
66	66	Twentieth street	3,318			
66	" "	Twenty-fourth st				
66	" .	Finnel street		00		
"	6.6	Buddan street	680			
"	"	Northern street	525			
66	"	Quarry street				
6.6	"	Twenty-first street.				
"	66	Wells street	122			
" "	66	Hanover street	1,961	87		
"	"	Sanger street	15	00		
		on Temporary Loan,		84		
Proporti	on of disc	count on Bonds				
			52	62		
Deprecia	tion in st	oek	433	84		
Covers u	sed		490	00		
		• • • • • • • • • • • • • • • • • • • •	2.817	43		
Pipe use	d		3,881	12		
_			\$196,993	58		
DEDUCT-						
		for labor				
		\$2,098 64				
Pipe cha	rged hous	se drains. 1,596 60	2 605	94		
			3,695			010 066 77
			\$193,298			218,266 77
Amo	ounts carr	ied forward	• • • • • • • • •	• •	\$44,287 68	\$339,169 61

.

Amounts brought forwardSEWERS, WEST DIVISION.Inspecting and labor	5245)70
Inspecting and labor \$32,272 90 Engineer and assistant 2,821 63 Cement 3,192 83 Constructing sewers 4,104 63 Freight on cement 33 54 Lumber 109 33	5245)70
Engineer and assistant. 2,821 63 Cement. 3,192 83 Constructing sewers 4,104 63 Freight on cement. 33 54 Lumber 109 33	5245)70
Engineer and assistant. 2,821 63 Cement. 3,192 83 Constructing sewers 4,104 63 Freight on cement. 33 54 Lumber 109 33	5245)70
Cement	2 4 5) 7)
Freight on cement.33 54Lumber109 33	4 5) 7)
Freight on cement	5) 7)
Lumber 109 33) 7)
Car fares	7
)
Water used	
Sand used	7
Hardware 16 6	
Rope, oakum, etc)
Rubber clothing)
Repairing wagon	6
Oil can, etc	9
Nails, etc	0
Tools, shovels, etc	0
Teaming 10 0	0
Stationery 23 0	1
Plumbing 69 0	7
Pipe 7 5	0
Oak Pails	0
Stone 50 4	0
Lanterns 13 (0
Horse keeping 49 5	60
Advertising 16 7	18
Short salary of Assistant Engineer 10 (0
ADD-	
Constructing sewers for which money	าส
was advanced	
Expense of sewer—Robey street 755	

Cash Payments. True Cost. \$44,287 68 \$339,169 61

\$43,344 36

- cc	66	Oakley street	765	42
66	" "	Centre avenue	16,388	56
"	"	Adams street	8,858	69
66	""	Ada street	$1,\!450$	40
66	66	Wright street	11,053	12
"	"	Morgan street	3,051	04
4.6	66	Halsted street	4,095	09
"	66	Madison street	13,345	93
"	""	Washington street	20	00
"	66	Adams street	15	00
"	66	Sixteenth street	37	50
**	66	Mitchell street	10,579	31

Amounts carried forward......\$70,799 08 \$87,632 04 \$339,169 61

,

					Cash
		ght forward\$	70,799	08	\$87
Expense	of sewer-	-Kinzie street	9,698	46	
44	"	Sheldon street	509	10	
"	"	Jefferson street	3,575	24	
"	66	Union street	3,319		
66	" "	Lake street	27,188		
66	٢٢	Lincoln street	2,012		
	66	Loomis street	3,820		
	566	Fulton street	26,426		
"		Peoria street	1,422		
66	66	Sangamon street	6,617		
66	66	Throop street	2,446		
"	66	Harrison street	17,095		
66	66		754		
"	46	Hoyne street Aberdeen street		75	
"	"				
"	"	Desplaines street	6,827		
"	"	Union street	13		
	"	Division street	9,366		
		Mill avenue	4,786		
"	44	Kramer street	1,713		
"	"	Park avenue	2,818		
66	"	Warren avenue	3,903		
44	46	Liberty street	1,594		
"	6.6	Forquer street	1,812		
4.6	66	Canalport avenue	4,541		
66	66	Monroe street	40		
4.6	66	Eighteenth street	$1,\!156$	74	
66	66	Canal street	1,942	60	
66	66	Leavitt street	815	38	
"	66	Wood Green street.	794	67	
66	"	Hubbard street	2,943	98	
66	66	Van Buren street	7,836	11	
66	66	Reuben street	5,594	26	
66	66	Bickerdyke street	1,199		
"	"	Sebor street	672		
66	66	Mather street	930		
"	66	Dupuyster street	608		
66	"	Green street	2,929		
Proport	ion of inter	rest on temporary loan	443		
		ount on bonds	19,573		
			,	93	
		ock	650		
			1,364		
			$1,30 \pm 6,997$		
			7,580		
Pipe use		••••••••••••••••••••••••••••••••••••••			
		• • • • •		00	#.O#

Cash Payments. True Cost. \$87,632 04 \$339,169 61

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Amounts carried forward \$275,223 82 \$87,632 04 \$339,169 61

NINTH ANNUAL REPORT OF

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		Cash Paul	nents, True Cost.
Amounts brought forward\$	275,223 8		
	,	*,	·- *···
DEDUCT—	1		
Amount received for puddling sewers,	9 506 5	:9	
and pipe charged house drains	3,596 5		314,971 65
\$:	271,727 2	29	7
REPAIRS SEWERS, NORTH DIVISION	Ϋ.		
Labor		59	
Cement	104 4		
Plumbing	1 3	81	
Sand used	60		
		- 1,558	33
Add ·			
Depreciation in stock	\$132 8		
Covers used	460 0		
Brick used	39 9	0	,
	\$2,191 0	4	2,191 04
REPAIRS SEWERS, SOUTH DIVISION Labor		1	
Cement	φ1,044 9 92 7		
Plumbing		-	
		- 1,639	03
ADD-			
Depreciation in stock\$150 52			
Covers used\$644 00			
Brick used 44 10			
Pipe used 3 30			
691 40	@Q41 0	0	0.490.05
•	\$841 9	12	2,480 95
REPAIRS SEWERS, WEST DIVISION	τ.		
Labor	\$1,531 7	15	
Cement	63 2		
Car fares	31 2		
Sand used	12 0		
Plumbing	18	- 1,639	54
App		- 1,000	04
ADD-			
Depreciation in stock \$150 51			
Covers used 1,016 60 Brick used 25 72		6]	
Pipe used			
<i>DD</i> 0000000000000000000000000000000000	\$1,215	63	2,855 17
Amounts carried forward		\$92,468	94 \$661,668 42

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THE BOARD OF PUBLIC WORKS.

E.			Cash Davin		True Ca	
Amounts brought forward			~		. <i>True Co.</i> \$661,668 4	
	2.37		φ <i>0</i> λ,400 i		\$001,000 A	±~2
CLEANING SEWERS, NORTH DIVISIO		69				
Water used						
Oil, etc		42				
Boots		34				
Pipe couplings	23	00				
Hardware	13	17				
• Acid		02				
Canvas spout	2	33	R 400	51		
App-			6,409	04		
Depreciation in stock	\$216	92				
DEDUCT-						
Amount received for cleaning	302	12				
					0.004	0.4
	\$85	20			6,324	34
CLEANING SEWERS, SOUTH DIVISIO		08				
Water used	ф0,095 396					
Repairing wagon		45				
Candles		79				
Oakum, etc.		17				
Oil	2	63				
Boots	5	33				
Pipe coupling		00				
Canvas spout		33				
Hardware		92				
Acid	6	03	9,362	27		
Add—			0,000			
Depreciation in stock	\$ 325	38				
DEDUCT-						
Amount received for cleaning	72	25				
	\$253	13			9,615	40
CLEANING SEWERS WEST DIVISION		10			•,•10	
Labor	\$9,291	76				
Repairing wagon		46				
Oakum		16				
Oil, etc	14	61				
Boots	5	33				
Pipe couplings		00				
Canvas spout		34				
Hardware	15	41				
	00.900	07	@108.040	75	0.00 000	10
Amounts carried forward	\$9,302	07	φ100,240	10	\$011,008 ·	10

		C	Cash Paymer	nts.	True Cost.
Amounts brought forward	\$9,362	07	\$108,240	75	\$677,608 16
Water used	396		• •		
Acid		75			
Salt.		60			
			9,766	06	
ADD— Depreciation in stock	\$325	20			
	დიაი	90			
DEDUCT-					
Amount received for cleaning	15	50			•
	309	88			10,075 94
SEWERAGE STOCK.					
	* 2 2 0				
Tools	\$368			•	
Sheeting	938 652				
870 feet of hose Repairing tools	432				
Freight on sheeting		00			
Wheel barrows		00			
			2,455	84	
SEWERAGE MAN HOLES AND CATCH-BA	SIN COVE	RS.			
Labor	\$3,781	50			
Nails	1,017				
Lumber	$5,\!281$	07			•
Freight on lumber	1,168				
Tar	175				
Cement	35	00	11,457	95	
Deduct—			11,101	00	
Covers used for sewers and repairs	\$10,841	25			
Covers sold	405	10			
	\$11,246	35			211 60
SEWERAGE LOAN INTER					
SEWERAGE LOAN INTERN	101.				
Remittance to Am. Exc. Natl. Bank to	ACO 10-	00			
pay July interest Remittance to Am. Exc. Natl. Bank to	\$69,425	63			
pay January interest	82,806	50			
Remittance to Am. Exc. Natl. Bank to	02,000	00			
pay short remittance	1,012	50			
Paid river improv't fund for its propor-	,				
tion of tax for 1866, 1867 and 1868.	96,457	32			
Interest paid in Chicago	390	00	050.004	05	050 001 05
			250,091	95	250,091 95
Amounts carried forward			\$382,012	55	\$937,987 65

		Cash Payme	ents.	True Cost.
Amounts brought forward		\$382,012	55	\$937,987 65
CERTIFICATES OF INDEBTH	EDNESS.			
Temporary loans		27,887	49	
DEDUCT-				
Am't rec'd from temporary loans	\$27 887	49		
	₩~1,001	10		
SEWERAGE BRICK.				
Brick purchased	\$156,889			
Labor	$\frac{512}{102}$			
Advertising		-157,504	96	
DEDUCT-		,		
Brick charged sundry sewers	\$140,413	53		17,091 43
SEWERAGE PIPE.				
Pipe purchased	\$37,149			
Labor	1,275	$\frac{02}{}$ 38,424	17	
Deduct-		00,101	1.	
Pipe charged sundry sewers	\$36,226	48		2,197 69
OFFICE EXPENSES AND SALAR				
Salaries of Commissioners	\$3,999			•
Salary of Secretary and assistant Salary of City Engineer	$\begin{array}{c}1,666\\1,500\end{array}$			
Salary of Book keeper and clerks	3,983			
Salary of Superintendent	1,000			
Salary of Watchman	181	00		
Stationery	532			
Furniture	182			
Advertising	343			
Revenue stamps Rent of office	215 2,250 (
Eng. clerk	550 (
Lumber	15 8			*
Papers	40	63		
Gas fittiog	38 /	72		
Painting	12 3			
Labor on coupons	124 (
Car fare Gas	58 1 199 r			
Rent of room 15	122 50 (
Rent of stable lot	31 \$			
			117	0000 000 000
Amounts carried forward	\$10,898 4	5 \$605,829	1.1	\$997,276 77

Cash Payments. True Cost.

Amounts brought forward......\$16,898 45 \$605,829 17 \$957,276 77

Amounts brought forward\$16,898 45	\$005,839 17	\$901,210 II
Bond Book clerk		
Commission on Temporary Loan 129 67		,
Draughtsman		
Office clerk		
Sprinkling 15 00		
Oil, etc 7 97		
Printing		
Labor 1,241 18		
Horse-keeping 197 04		
Express on Bonds 460 40		
Coal		
Engraving Bonds 209 83		
Miscellaneous cash items 103 53		
Hardware 123 93		
Washing towels 20 00		
Ice		
Interest on advance	21,902 37	
	21,002 01	
DEDUCT-		
Am't rec'd from Contract forfeit, \$400_00		
" " Drain license 28 00		
""" Assessments 3,010-30		10 101 07
3,438 30		18,464 07
ROBEY STREET SEWER.		
ROBEY STREET SEWER. Dickey & O'Brien, constructing sewer	512 55	
	512 55	
Dickey & O'Bilen, constructing sewer	512 55 522 20	
Dickey & O'Blien, constructing sewer		
Dickey & O'B1ien, constructing sewer OAKLEY STREET SEWER. Dickey & O'Brien, constructing sewer DOUGLASS PLACE SEWER.		
Dickey & O'Bilen, constructing sewer OAKLEY STREET SEWER. Dickey & O'Brien, constructing sewer		
Dickey & O'Brien, constructing sewer OAKLEY STREET SEWER. Dickey & O'Brien, constructing sewer DOUGLASS PLACE SEWER. Haines & Hallalin, constructing sewer\$80,629 13 Labor		
Dickey & O'Brien, constructing sewer OAKLEY STREET SEWER. Dickey & O'Brien, constructing sewer DOUGLASS PLACE SEWER. Haines & Hallalin, constructing sewer\$80,629 13 Labor	522 20	
Dickey & O'Brien, constructing sewer OAKLEY STREET SEWER. Dickey & O'Brien, constructing sewer DOUGLASS PLACE SEWER. Haines & Hallalin, constructing sewer\$80,629 13 Labor		
Dickey & O'Brien, constructing sewer OAKLEY STREET SEWER. Dickey & O'Brien, constructing sewer DOUGLASS PLACE SEWER. Haines & Hallalin, constructing sewer\$80,629 13 Labor	522 20	
Dickey & O'Brien, constructing sewer OAKLEY STREET SEWER. Dickey & O'Brien, constructing sewer DOUGLASS PLACE SEWER. Haines & Hallalin, constructing sewer\$80,629 13 Labor 2,988 04 Plumbing 132 06 Cement	522 20	
Dickey & O'Brien, constructing sewer OAKLEY STREET SEWER. Dickey & O'Brien, constructing sewer DOUGLASS PLACE SEWER. Haines & Hallalin, constructing sewer\$80,629 13 Labor	522 20	
Dickey & O'Brien, constructing sewer OAKLEY STREET SEWER. Dickey & O'Brien, constructing sewer DOUGLASS PLACE SEWER. Haines & Hallalin, constructing sewer\$80,629 13 Labor 2,988 04 Plumbing 132 06 Cement. 38 12 CENTRE AVENUE SEWER. M. McNichols, constructing sewer \$ 807 76	522 20	
Dickey & O'Brien, constructing sewer OAKLEY STREET SEWER. Dickey & O'Brien, constructing sewer DOUGLASS PLACE SEWER. Haines & Hallalin, constructing sewer\$80,629 13 Labor2,988 04 Plumbing	522 20	
Dickey & O'Brien, constructing sewer OAKLEY STREET SEWER. Dickey & O'Brien, constructing sewer DOUGLASS PLACE SEWER. Haines & Hallalin, constructing sewer\$80,629 13 Labor2,988 04 Plumbing	522 20 83,787 35	
Dickey & O'Brien, constructing sewer OAKLEY STREET SEWER. Dickey & O'Brien, constructing sewer DOUGLASS PLACE SEWER. Haines & Hallalin, constructing sewer\$80,629 13 Labor2,988 04 Plumbing	522 20	
Dickey & O'Brien, constructing sewer OAKLEY STREET SEWER. Dickey & O'Brien, constructing sewer DOUGLASS PLACE SEWER. Haines & Hallalin, constructing sewer\$80,629 13 Labor2,988 04 Plumbing	522 20 83,787 35 10,693 30	\$975,740 84

THE BOARD OF PUBLIC WORKS.

		(Cash Payme	nts.	True Cost.
Amount brought forward		• • •	\$723,246	94	\$975,740 84
ADAMS STREET SEWER.					
M. McNichols, constructing sewer	\$4,900	32			
Cement		25			
Labor	584	-50 	5,496	07	
KANKAKEE AVENUE SEWER.			0,100	0.	
P. Doyle, constructing sewer	\$1,607	40			
P. D. Betticher	,				
Cement Labor		02			
Labor	1,201	~4 	8,062	24	
ADA STREET SEWER.			,		
Woodruff & Raffin, constructing sewer	\$1,066	40			
Labor	. ,	50			
			1,127	90	
WRIGHT STREET SEWER.					
M. Mulany, constructing sewer					
Cement Plumbing	$\frac{11}{215}$				
Labor	11				
			6,516	26	
MORGAN STREET SEWER.					
Haines & Hallalin, constructing sewer					
Finnucan & Hallalin, "" Labor	1,443 78				
			2,246	25	
HALSTED STREET SEWER.					
John Duffy, constructing sewer	\$1,827	48			
Cement	113				
Plumbing Labor	7 76	70			
			2,024	23	
OAK STREET SEWER.			,		
Bartley Langan, constructing sewer	\$959	10			
Cement	144				
330 loads dirt	198				
Labor	116	00	1,417	15	
PURPLE STREET SEWER,			1,111	10	
M. Mulany, constructing sewer			407	25	
Amounts carried forward			\$750,544	29	\$975,740 84

	Cash Payments.	True Cost.
Amounts brought forward	\$750,544 29	\$975,740 84
WENTWORTH AVENUE SEWER.		
M. Mulany, constructing sewer \$371 85		*
T. McQueeney, constructing sewer 502 15		
Labor 58 83 Plumbing 7 55		
Plumbing	940 38	
WEST MADISON STREET SEWER.		
Woodruff & Raffin, constructing sewer. \$8,336 25		
" extras 32 62 Labor 186 38		
	8,555 25	
WEST WASHINGTON STREET SEWER.		
Labor	35 00	
SIXTEENTH STREET SEWER.		
Labor	37 50	
PRAIRIE AVENUE SEWER.		
Labor \$ 9 25		
Cement 22 50		
NORTH CLARK STREET SEWER.	31 75	8
Labor\$308 47		
Cement		
	3 40 0 7	
MITCHELL STREET SEWER.		
M. Mulany, constructing sewer \$6,356 25 "extras		
Labor		
· · · · · · · · · · · · · · · · · · ·	6,511 75	
KINZIE STREET SEWER.		
Finnucan & Hallalin, constructing sewer. \$6,375 00		
" extras		
	6,465 59	
THIRTEENTH STREET SEWER.		
Woodruff & Raffin, constructing sewer \$ 778 75 "extras		
Labor		
	817 30	
NORTH AVENUE SEWER.		
Labor \$1,703 50 Cement 109 20		
105 20	1,812 70	
Amounts carried forward	\$776,091 58	\$975,740 84

	Cash Payments. True Cost.
Amounts brought forward	\$776,091 58 \$975,740 84
SHELDON STREET SEWER.	
Labor	$509\ 10$
JEFFERSON STREET SEWER.	
M. Mullany, constructing sewer \$2,401 05	;
" extras 3 38	i
Plumbing 30 01	2,434 44
DEERING STREET SEWER.	
T. McQueeney, constructing sewer \$3,772 27	,
Labor 177 30	
Plumbing	
Cement	- 3,991 09
MAIN STREET SEWER.	•
T. McQueeney, constructing sewer \$4,113 12	;
" extras 28 19	
Plumbing 10 50	4,151 81
STEWART AVENUE SEWER.	4
Plumbing	27 30
UNION STREET SEWER.	
M. Mulany, constructing sewer \$2,087 25	
"extras	
	2,118 42
WEST LAKE STREET SEWER.	
Woodruff & Raffin, constructing sewer\$18,758 95	
" " extras 267 47 Labor 582 26	
	19,608-68
ARCHER AVENUE SEWER.	
T. McQueeney, constructing sewer \$4,446 78	• · · · · · · · · · · · · · · · · · · ·
" extras 24 98	
Labor	4,855 64
LINCOLN AVENUE SEWER.	
John Duffy, constructing sewer\$26,972 40	
" extras 1,330 82	
Labor 206 50	28,509 72
Amounts carried forward	\$842,297 78 \$975,740 84

•		Cash Pay	men	t. True Cos	st.
Amounts brought forward		\$842,297	78	\$975,740 8	34
LINCOLN STREET SEWER.					
Dickey & O'Brien, constructing sewer	\$1,345 0	5			
"•• " extras	5 6	2			
Labor	$\begin{array}{c} 69 \\ 5 \\ 5 \end{array}$				
Plumbing		- 1,425	25		
LOOMIS STREET SEWER.					
M Mulany, constructing sewer					
" extras	17 7 92 5				
Labor	92 0	- 2,930	45		
LARRABEE STREET SEWER.					
M. McNichols, constructing sewer					
" extras	75 (21)				
	، 1د. 	- 6,068	07		
FOURTEENTH STREET SEWER.					
P. D. Betticher, constructing sewer					
Labor	51 7	15 1,377	81		
FULTON STREET SEWER.					
Kelley, Langan & McGraw, const. sewer.	\$17,238	75			
" " extras				•	
Labor	238 0	- 17,544	12		
PEORIA STREET SEWER.		·			
M. Mulany, constructing sewer	\$1,044 (00			
Labor	67 ()0 - 1,111	00		
INDIANA AVENUE SEWER.		-,			
P. Doyle	\$1,692	9 0			
P. D. Betticher.	2,802 (00			
Labor	274 4	12 4,769	32		
CALUMET AVENUE SEWER.		_,			
P. Doyle, constructing sewer					
" extras	73				
Labor	52 2	20 1,775	75		
MICHIGAN AVENUE SEWER.		,			
P. Doyle, constructing sewer	\$710				
" extras	32 ± 61 ±				
Labor		- 804	10		
Amounts carried forward		\$880.103	65	\$975,740	84

			Cash Paym	ents.	True Cost.
Amounts brought forward			\$880,103	65	\$975,740 84
WABASH AVENUE SEWER.					
P. Doyle, constructing sewer					
" extras Labor		$25 \\ 50$			
			1,808	05	
WHITNEY STREET SEWER.					
J. McHugh, constructing sewer					
" extras Labor		65 63			
Labor			1,121	43	
WENDELL STREET SEWER.					
J. McHugh, constructing sewer	\$98				
" extras Labor		$75 \\ 50$			
Labor			104	70	
STATE STREET SEWER.					
P. Doyle, constructing sewer	\$4,255	68			
" extras					
Labor		50	4,455	66	
SANGAMON STREET SEWER.					
Finnucan & Hallalin, constructing sewer.		20			
" " extras		75			
M. Mulany, constructing sewer		25 50			
Labor					
,			4,810	70	
SEDGWICK STREET SEWER.	☆ ≈ 000	~ ~			
M. McNichols, constructing sewer M. McNichols, extras	\$7,688 353				
John Duffy, constructing sewer	5,518				
John Duffy, extras	187				•
Labor	214	75	13,962	18	
THROOP STREET SEWER.			,		
M. Mulany, constructing sewer	\$1,815	45			
M. Mulany, extras	10				
Labor	29	50	1,855	70	
Amounts carried forward			\$908,222	07	\$975,740 84

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	Cash Payme	ents. True Cost.
Amounts brought forward	\$908,222	07 \$975,740 84
TWENTY-THIRD STREET SEWER.		
T. McQueeney, constructing sewer \$3,552 90		
T. McQueeney, extras 2 25		
Woodruff & Raffin, constructing sewer. 714 00		
Labor	4,378	65
HARRISON STREET SEWER.	1,010	
M. Malony, constructing sewer \$10,786 80		
Labor		
	11,038	80
HOYNE STREET SEWER.		
Dickey & O'Brien, constructing sewer. \$511 00		
Labor	514	50
ABERDEEN STREET SEWER.		7
Labor	4	75
DESPLAINES STREET SEWER.		
Brown & Flanery \$5,077 80		
Brown & Flanery, extras 47 60		
Labor 43 00	5,168	40
ELM STREET SEWER.	0,100	10
Labor	16	00
UNION STREET SEWER.		
Labor	13	50
DIVISION STREET SEWER.		
C. Gladding, constructing sewer\$4,641 67		
Cement		
Labor	E 010	170
MILWAUKEE AVENUE SEWER.	5,618	12 ,
J. Duffy, constructing sewer\$1,990 79		
Kelly, Langan & McGraw, const'g sewer. 1,246 05		
Labor 185 00		
	3,421	84
SEVENTEENTH STREET SEWER.		
T. McQueeney, constructing sewer \$418 00		
"extras 19 40 Labor 46 50		
40.00	483	90
Amounts carried forward	\$938,881	13 \$975,740 84

		С	ash Payme	nts.	True Cost.
Amounts brought forward			-		\$975,740 84
SCHILLER STREET SEWER.					
M. McNichols, constructing sewer\$1,	781	50			
	55				
Labor	74	00	1,910	96	
SIEGEL STREET SEWER.			1,010	00	
M. McNichols, constructing sewer\$1,	,785	00			
" extras	79				
Labor	49	50	\$1,913	52	
GOETHE STREET SEWER.			ф1,910	00	
M. McNichols, constructing sewer	.528	50			
" extras					
Labor	53	00			
-			1,651	97	
TWENTY-NINTH STREET SEWER.					
P. D. Betticher, constructing sewer\$1 "extras	,155 19				
Labor	19 29				
-		•	1,204	23	
TWENTY-FIFTH STREET SEWER.					
P. D. Betticher, constructing sewer §	\$150	60			
	25				
Woodruff & Raffin, constructing sewer Labor	416				
	51	00	652	73	
TWENTIETH STREET SEWER.					
Woodruff & Raffin, constructing sewer\$2	,418	50			
Labor	18	50	0.40*		
_	1	B	2,437	00	
TWENTY-FOURTH STREET SEWER.	9105	50			
P. D. Betticher, constructing sewer	\$400 38				
Woodruff & Raffin, constructing sewer	413				
Labor	10				
-			927	87	
CASS STREET SEWER.	100	~ 0			
J. McHugh, constructing sewer §	\$420 2	70 25			
Labor	~ 39				
-			462	45	
Amounts carried forward		• •	\$950,041	87	\$975,740 84

			Cash Payment.	s. True Cost.
Amounts brought forward	•		\$950,041 8	7 \$975,740 84
KRAMER STREET SEWER.				
Brown & Flanery, constructing sewer		2 50)	
" " extras		0 25		
Labor	2	5 50) 858 2	ĭ
PARK AVENUE SEWER.				•
Dickey & O'Brien, constructing sewer	\$1,528	3 70)	
" " extras				
Labor	35	3 00	1,567 95	1
WARREN AVENUE SEWER.			1,001 00	, ,
Dickey & O'Brien, constructing sewer	\$2,095	5 25		
" " extras		00		
Labor	6 9	00	2,173 25	
LIBERTY STREET SEWER.			2,110 20	·
Brown & Flanery, constructing sewer	\$685	30		
" " extras	10	12		•
Labor	68	25	1709 01	
FORQUER STREET SEWER.			763 67	
Brown & Flanery, constructing sewer	\$811	20		
" " extras		25		
Labor	96	25		
			909 70	
FINNEL STREET SEWER.			01.00	
			21 00	
FRANKLIN STREET SEWER.	@1=1	0~		
J. McHugh, constructing sewer "extras		95 50		
Labor	20	00		
	·		482 45	
BUDDAN STREET SEWER.	****			
T. McQueeney, constructing sewer Labor				·
	~~~		393 65	
BREMER STREET SEWER.				
J. McHugh, constructing sewer "extras	\$958 4			
Labor	4 81	81 50		
			1,044 31	
Amounts carried forward			\$958,256 10	\$975,740 84

	Cash Paym	ents	. Irue Cost.
Amounts brought forward	\$958,256	10	\$975,740 84
NORTHERN AVENUE SEWER.			
P. D. Betticher, constructing sewer \$381 9			
" extras 5 2: Labor 17 00			
	404	13	
CANALPORT AVENUE SEWER. T. McQueeney, constructing sewer\$2,729 78	5		
" extras 211 15			
Labor	2 - 3,263	70	
QUARRY STREET SEWER.	0,200	10	
Labor	150	50	
GRANT STREET SEWER.			
Labor	45	50	
SOUTH PARK AVENUE SEWER.			
Labor	8	00	
MONROE STREET SEWER.	10	0.0	
Labor	40	00	
PEARSON STREET SEWER.			
J. McHugh, constructing sewer         \$393         95           "extras			
HILL STREET SEWER.	398	95	
J. McHugh, constructing sewer	110	00	
WHITE STREET SEWER.			
J. McHugh, constructing sewer	384	70	
HINSDALE STREET SEWER.			
J. McHugh, constructing sewer \$326 00			
" extras	- 329	27	
GRANGER STREET SEWER.			
M. McNichols, constructing sewer\$1,786 75 "extras			
" extras 51 60	1,838	35	
EIGHTEENTH STREET SEWER.			
M. Mulany, constructing sewer	690	52	
. CANAL STREET SEWER.	1 019	00	
M. Mulany, constructing sewer	1,013		
Amounts carried forward	\$966,932	89	\$975,740 84

C	ash Payments	. True Cost.
Amounts brought forward	\$966,932 89	\$975,740 84
LEAVITT STREET SEWER.		
Drekey & O'Brien, constructing sewer	574 48	3
WOOD STREET SEWER.		
Drekey & O'Brien, constructing sewer	549 20	)
GREEN STREET SEWER.		
Finnucan & Hallalin, constructing sewer	1,941 25	5
HUBBARD STREET SEWEK.	511 00	· · · · · · · · · · · · · · · · · · ·
Finnucan & Halialin, constructing sewer	511 20	)
HANOVER STREET SEWER.	1,307 37	,
P. Doyle, constructing sewer	1,007 07	
VAN BUREN STREET SEWER. Woodruff & Raffin, constructing sewer	4,476 49	)
REUBEN STREET SEWER.	1,110 1	
Woodruff & Raffin, constructing sewer	4,105 41	1
WELLS STREET SEWER.		
Labor	122 5	)
SANGER STREET SEWER.		
Labor	15 0	0
TWENTY-FIRST STREET SEWER.		
Woodruff & Raffin, constructing sewer	2,425 2	7
BICKERDYKE STREET SEWER.		
Brown & Flanery, constructing sewer	831 2	5
SEBOR STREET SEWER.		
Brown & Flanery, constructing sewer \$243 60		
" " extras <u>11 37</u>	254 9	7
MATHER STREET SEWER.		
Brown & Flanery, constructing sewer	427 9	0
DUPUYSTER STREET SEWER.		
Brown & Flanery, constructing sewer	423 4	2
SUNDRY SEWERS.		
Amount paid back for money which was advanced		0
to construct sewers built by private parties	5,872 6	
Amounts carried forward	\$990,771 2	3 \$975,740 84

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			Cash Payments.	True Cost.	
Amounta brought formond			\$990,771 23	\$975,740	
Amounts brought forward		••	\$990,111 ×0	φυτ0,1±0	0 I
SINKING FUND.					
Amount paid Sewerage and River Imp					
Sinking Funds, for their proportion of			110 71 - 10	110 115	40
age Tax for 1868 and 1869		••	118,715 40	118,715	40
PRIVATE DRAINS.					
North Clark street drains	\$707	82			
West Adams street drains	2,140	80			
West Madison street drains	7,705				
Washington street drains	88				
La Salle street drains	3,173				
Halsted street drains	2,614				
Kinzie street drains	190				
Archer avenue drains	339				
Prairie avenue drains	$1,227 \\ 2,846$				
Clinton street drains	1,216				
Dearborn street drains	689				
Twelfth street drains	219				
Lake street drains	2,725				
Filling Harrison and Polk streets	367				
Polk street drains	127				
Jefferson street drains	639	93			
Wells street drains	448	10			
Randolph street drains	641	59			
Eighteenth street drains	391	86			
West Washington street drains	1,537				
Wabash avenue drains	1,511				
Division street drains	298				
Fourteenth street drains		00			
Calumet avenue drains	736				
Harrison street drains	969				
Jackson street drains	$396 \\ 2,214$				
South Park avenue drains North avenue drains					
North avenue drams	1,001		37,892 95		
DEDUCT-			,		
		01		14,619	94
Amount rec'd from private drains\$	,~0,~10	01		14,010	υx
HOUSE DRAINS.					
Inspectors	1,881				
Draughtsmen	1,200				
Permit clerk	924	40			
Amounts carried forward	\$7,096	03	\$1,147,379 58	\$1,109,076	18

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Amounts carried forward ..... \$7,096 03 \$1,147,379 58 \$1,109,076 18

			Cash Payments.	True Cost.
Amounts brought forward	\$7,096	03	\$1,147,379 58	\$1,109,076 18
Car fares	204	60		
Advertising	410	13		
Printing	13	50		
Cement	<b>22</b>	41		
Stationery	16	70		
Constructing drains	26	66		
Repairing pipe	14	45		
Hardware	5	50		
			7,809 98	
ADD-	***	05		
Pipe used	\$6,355	25		
Deduct—				
Amount received from assessments				
and permits issued	13.080	39		1,084 84
Total cash expenditures			\$1,155,189 56	\$1.110,161 02

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## SEWERAGE SINKING FUND.

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### RECEIPTS.

Proportion c	of Sewerage	e Tax for 1868	\$31,069 20		
66	66	" " 1869	43,885 24		
				\$74,954 44	
Balance in h	ands of Tre	easurer, April 1, 18	69	32,938 00	
		· • ·			\$107,892 91

### EXPENDITURES.

Forty Bonds purchased and cancelled, \$37,200 00 Nos. 2651, 2652, 2654 to 2691			
Expense of foreclosure of mortgage 323 18			
	\$37,523 18		
Balance in hands of Treasurer, April 1, 1870	70,369 73		
		\$107.892 9	1

. \$101,002 01

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## RIVER IMPROVEMENT FUND.

## TRIAL BALANCE, LEDGER, BOARD OF PUBLIC WORKS, MARCH 31, 1870.

	Dr.		Cr.	
River Improvement Fund in hands of Treasurer.	\$152,511	03	,	
Expense of Survey previous to adoption of plan.	1,269	23		
American Exchange National Bank coupon acc't.	1,680	00		
River Improvement Loan Interest	112,265	57		
Expense of Survey	28,943	19		
River Improvement Salary Account	30,683	37		
" " Office Expense	1,582	16		
Geo. Taylor, Comptroller	92,000	00		
River Improvement Sinking Fund			\$ 54,635 1	8
River Improvement Bonds, 7 per cent			1,923,000 0	00
Discount on River Improvement Bonds	70,567	87		
River Improvement Miscellaneous Expense	32,613	84		
C. B. Kimball, Contractor	75,286	98		
Sanger, Steel & Co., Contractors	62,292	59		
Fox, Howard & Walker, "	128,649	95		
······································	244.255	08		
· · · · · · · · · · · · · · · · · · ·	63,114	13		
······································	94,103	50		
Hosch & Harroon, "	42,028	25		
C. E. Boyer, "	232,569	70		0
Hosch & Van Slyck, "	70,244	00		
S. W. Norton, "	74,608	98		
Lee & Graham, "	67,723	75		
J. A. Hendricks & Co., "	49,748	30		
Carkin & Kimball, "	98,487	91		
Hugh Maher, "	30,202	20	•	
Barnard & Gowen, "	50,333			
J. J. Parry, "	55,598			
Fox, Howard & Walker, "	' 14,271	50		
0		10		-

\$1,977,635 18 \$1,977,635 18

## RIVER IMPROVEMENT FUND.

STATEMENT of Cash Receipts and detailed statement of the cost of various operations conducted by the Board of Public Works from April 1st, 1869, to March 31st, 1870, inclusive:

### RECEIPTS.

Proceeds sale of 844 River Improvement Bonds, including accrued interest River Improvement Sisking Fund tax Amount of tax for interest Stone sold	50,751 53 96,457 32	\$953,252 10
EXPENDITURES.		
INTEREST ACCOUNT.	Cash Payments.	True Cost.
Amount of remittance to pay July,		
1869, and January, 1870, interest. \$79,498 25		
Coupons paid by City Treasurer 6,776 39		
	\$86,274 64	\$86,274 64
MISCELLANEOUS EXPENSE.		• /
Pamping at Bridgeport\$15,499 58		
Tolls lost		
Extra labor		
Labor on dams 1,639 02		
Engraving bonds		
Interest on advance 156-98		
Labor and material		
Labor on coupons 293 21		
Express on bonds		
Advertising 424 00		
Telegrams4 10		
Inspecting sold stone		
One desk		
Rent of office		
Car fares		
Hardware 10 00		
Stationery	1	
	33,965 $84$	
DEDUCT—		90.019.04
Amount received for stone sold \$1,352 00		32,613 84
Amounts carried forward	\$120,240 48	\$118,888 48

			Cash Pay	ments.	True Cos	st.
Amounts brought	forward		\$120,240	) 48	\$118,888	48
EXPENSE OF SUR	VEY AND SAL	ARIES.				
Salary of Commissioners		\$5,750 00				
" Secretary						
" Engineer						
" Ass't Engineer						
axeman		3,343 25	11,709	92	11,709	92
CONTRA	ACTS.		<i>,</i>		,	
C. B. Kimball, on accour	t contract	\$18,156-35				
Fox, Howard & Walker,		30,000 00				
		46,796 75				
<u></u>		45,005 00				
		86,916 75				
Hosch & Harroon,		20,429 75				
C. E. Boyer,		54.804 94				
Hosch & Van Slyck,		30,493 75				
S. W. Norton,		22,000 00				
Lee & Griham,		44.353 00				
J. A. Hendricks,		11,648 38				
Ca:kin & Kimball,		89,509 78				
Hugh Maher,		28,684 10				
Barnard & Gowan,		40,898 60				
J. J. Parry,		55,598 50				
Fox, Howard & Walker,		14,271 50				
			639,567	15	639,567	15
Total cash expenditu	re <b>s</b> .		\$771,517	55	\$770,165	55
Balance in hands of Tre	easurer April					
1st, 1870	• • • • • • • • • • • • • • • • • • • •		152,511	03		
			\$924,028	58		

## CITY DEPARTMENT.

## TRIAL BALANCE LEDGER, BOARD OF PUBLIC WORKS, MARCH 31, 1870.

	Dr.		Cr.
Appropriation Fund in hands of Treasurer	\$617,911	33	
North Division	2,008		
South Division	, i		\$1,073 01
West Division			26,401 09
City Office Expense	2,508	87	·
North Division Sidewalks			2,942 17
South " "			373 87
West " "			4,097 00
Public Parks			17,702 76
Washington Street Tunnel	4,408	25	
Public Buildings			22,701 55
Chicago Cemetery			3,978 $85$
Lumber account	890	00	
LaSalle Street Tunnel	1,266	64	
House Moving and Street Permits			18,481 88
Street Signs			2,004 78
Street Lamps			8,391 41
Public Hydrants			507 65
Samuel Polkey, Receiving Clerk	308	12	
Warrant No. 480			308 12
City Proportional Expense			7,452 24
House Numbers			2,044 53
Public Benefits			350,427 75
Chicago Harbor			26,905 42
Land Damages			57,262 00
Bridge Department			5,505 15
Archer Road Bridge			6,000 00
Indiana Street "			1,925 00
Erie Street "			20,000 00
Western Avenue "			$4,195\ 50$
Adams Street "			4,582 74
Division Street "			4,037 41
Twenty-second Street Bridge			30,000 00
	\$629,301	38	\$629,301 38

### BOARD OF PUBLIC WORKS APPROPRIATION FUND.

STATEMENT of the cash receipts by the Board of Public Works, from April 1, 1869, to March 31, 1870, inclusive, and detailed statement of the cost of various operations conducted by the Board during the same time:

#### RECEIPTS.

Amount appropriated by Common Council \$1,216,581	01
Amount of Temporary Loans for running expenses, 352,343	67
Received from Special Assessments for expenses . 96,713	22
Permits issued 6,065	40
Repairing Streets	42
Vouchers cancelled	82
Received for Numbers	00
" " Constructing Walks 369	70
" " Damages to Bridges 745	73
" " Cleaning Snow 417 (	00
Lamp-posts	50
Sand sold 147 9	20
Surveyor's License	00
Old awning sold 1	25
\$1,685,734	92
Balance in hands of City Treasurer, April 1, 1869. 385,118	

\$2,070,853 89

#### EXPENDITURES.

#### NORTH DIVISION.

		043
Labor on streets	\$39,981	07
Cleaning streets	7,399	06
Labor repairing streets		36
Lumber		26
Cindering streets	1,810	75
Iron and nails		73
Cement	426	21
Brick used		65
Amount carried forward	\$55,311	09

Cash Payments. True Cost.

		С	ash Payments.	True Cost
Amount brought forward	\$55,311	09		
Gravel			•	
200 loads clay	137			
Hardware, tools, etc	128			
Work at shop in 1868	103			
Composition		00		
Freight on lumber		00		
Repairing curb wall		50		
Lanterns		00		
Lumber used charged lumber account	5 282			
Interest on temporary loans	1,644	67	\$62,921 84	
Deduct-			\$ 013 <b>3</b> 0102 C2	
Amount received for labor	\$614	45	-	\$62,307 39
SOUTH DIVISION.				
Labor on streets	\$58,343	48		
Cleaning streets	24,715	89		
Lumber	7,024	37		
Lumber used charged lumber account	7,925	04		
Cinders	3,151	00		
Paving cement	2,701	20		
Interest on temporary loans	2,467	01		
Stone used charged stone account	1,573	02		
Iron and nails	$1,\!113$	09		
Gravel	1,350			
Brick used	629			-
Freight on lumber	420			
Hardware, repairing tools, etc	131			
Curbing	153			
Labor at shop in 1868	103			
McAdam	520			
Scavenger work	175			
Miscellaneous cash items		$\frac{70}{50}$		
Advertising		00		
Rubber clothing		90		
Lantern Broom		75		
			\$112,573 91	
Deduct—			,,	
Amount received for labor	\$3,433	92		
" voucher drawn in error	102	00		
" received for cleaning snow	111	00		
	\$3,646	93		\$108,926 99
		-		\$100,020 99
Amounts carried forward		. \$	175,495 75	\$171,234 38

Amounts brought forward.....

WEST DIVISION.

Cash Payments. True Cost. \$175,495 75 \$171,234 38

WEST DIVISION.				
Labor on streets	\$108,653	52		
Cleaning streets	12,752	20		
Lumber	7,032	81		
McAdam	2,869	88		
Iron and nails	1,779	13		
Paving cement	1,244	66		
Cinders	980	50		
Brick used	629	65		
Damage to carriage	300	00		
Planking Main street	200	00		
Building walls	111	32		
Labor at shop in 1868	103	05		
Hardware, repairs, tools, etc	133	86		
Freight on lumber	80	00		
Scrapers	43	50		
Plows	32	00		
Painting	11	50		
Scavenger work	4	00		
Brooms	1	50		
Interest on temporary loans	2,467	01		
Lumber used charged lumber account	7,925	05		
Stone used charged stone account	1,158	23	110 810 07	
-			148,513 37	
Deduct—				
Amount received for labor\$101 2				
" rec'd for cleaning snow 28 0		95		140 194 19
	- \$329	20		148,184 12
SIDEWALKS, NORTH DIVISION.				
Building walk	\$244	41		
Superintendent's salary				
Salaries of Inspectors				
L.			2,441 76	
DEDUCT—				
Amount rec'd for const'g walk\$22	45			
Voucher cancelled 2	52	0.19		0.44.0.170
	- \$24	97		2,416 79
SIDEWALKS, SOUTH DIVISION.				
Building walk	\$1,935	25		
Salary of Superintendent				
Salaries of Inspectors		50		
Labor		50		
			5,047 25	
			A 001 100 10	A 901 005 00

Amounts carried forward.....

\$331,498 13 \$321,835 29

		С	ash Payments	. True Cost.
Amounts brought forward			\$331 498 1	8 \$321 835 29
Deduct—			φοστ,100 τ	ο φολ <b>ι</b> ,000 λυ
Amount rec'd for const'g walk\$36-40				
" voucher cancelled 52 12				
	\$88	52		4,958 73
SIDEWALKS, WEST DIVISION.	φ00	0.0		1,000 10
Building walks	\$605	717		
Salary of Superintendent				
Salary of Inspectors				
Salary of Inspectors	0,004	01	4,450 38	3
DEDUCT—			,	
Amount rec'd for const'g walk\$310 85				
" " <b>vouchers c</b> anc'd, 15-89				
	\$326	74		4,213 64
CERTIFICATE OF INDEBTEDNE	ss.			
Temporary loans			352,343 67	ĩ
DEDUCT—				
Amount received for temporary loans, \$3	52.343	67		
OFFICE EXPENSES AND SALARIES.				
Salary of Commissioners				
Salary of Secretary and Assistant	1,424			
Salary of City Engineer	1,500			
Salary of Superintendeat	983			
Salaries of Book-keeper and Clerks	3,222			
Salary of Assistant Engineers	8,746			
Salaries of draughtsmen	8,581			
	17,921			
Salaries of mes'nger, janitor and watchman	796			
Stationery and blank books	1,425			
Advertising				
Office rent	2,300			
Printing Seventh Annual Report	330			
Printing Eighth " "	574	70		
Coal used	362			
Miscellaneous cash items	142			
Commissions on temporary loan	152			
Notary fees	229			
Pay roll rodmen and labor	3,765			
Hardware	110			
Printing	858			
Furniture	195			
Keeping horses	222	31		
Amounts carried forward		:	\$688,387 18	\$331,007 66
10				

			Cash Payme	nts.	True Cost.
Amounts brought forward	\$		\$688,387	18	\$331,007 66
Revenue stamps	215	08			
Ice	121	73			
Gas	122	68			
Draughtsmen's tools	59	00			
Subscription to daily papers		49		•	
Map of Chicago		00			
Tape live		50			
Gas fitting		06			
Matches		22			•
Sprinkling		90			
Examining title		00			
Use of steamer		00			
Expense to Springfield		20			
Sub. to London Engineering		00			
New awnings		00			•
Oakum, etc		00			
Car fares, washing towels, painting, etc	111	93	70,930	85	
Deduct-			10,000	00	
Cost of proceed'gs on sundry assessm'ts.	\$96.693	22			
Surveyor's license and scale permit		25			
Old awning sold		00			
	\$96,768	47			
*	<i>po0</i> ,100	11			
LAKE PARK.					
Lawn mower	\$74				
Planting trees	2,660				
Hauling dirt.	1,964				
Building sidewalks	1,565				
Building band house	651				
Labor	335				
Salary of Superintendent	400				
Salary of Inspector	975				
Lumber Grass seed		48			
Coal		75 50			
Coal	•		8,783	87	8,783 87
UNION PARK.			5,		.,
Labor, mowing grass, carpenter work, etc.	\$12.075	75			
Lumber	1,353				
Roofing	510				
Plumbing	682				
Chural	964				

Amounts carried forward ..... 14,985 98 \$768,096 90 \$339,791 53

 $364 \ 00$ 

Gravel.....

			Cash Pays	nent:	s. True C	Cost.
Amounts brought forward\$1	4,985	98	\$768,096	90	\$339,791	53
Feed for animals	632	33				
Trees	828	75				
Stone for fountain	841	76				
Painting	348	30				
Sprinkling wagon	260	00				
Wire work	103	26				
Iron works	145	91				
Laying sewer	197	95				
Lawn mowers	111	60				
Hardware	227	61				
Salary of Superintendent	400	00				
Fountain fixtures	175	00				
Chairs	35	00				
Miscellaneous items	5	14				
Painting signs	3	00				
Iron and nails	82	86				
Ashes	40	00				
One flag	38	70				
Water permit	20	90				
Advertising	15	00				
Gas	19	25				
Tools	63	96				
Grass seed	38	80				
			19,621	06	19,621	06
JEFFERSON PARK.						
Labor	5 974	01				
Stone		91 30				
		50 50	2			
Plumbing		10				
Miscellaneous items	4	10	5 500	01	F 500	01

#### LINCOLN PARK.

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	Paid Nelson & Benson for grading, cinder-			
	ing, building walks and drives, planting			
	trees, and keeping park in repair\$28,8	337	66	
	Interest on temporary loans	382	50	
		242	10	
	Iron work a	357	91	
•	Lamps 2	211	35	
		270	70	
	Labor 3	318	60	
		74	39	
		00	00	
	Painting	5	00	
			0.4	

Amounts carried forward...... 31,700 21 \$793,220 77 \$364,915 40

### 179

Cash Payments, True Cost.

5,502 81 5,502 81

.

					s. True Cost.
Amounts brought forward	\$31,700	21	\$793,220	77	\$364,915 40
One flag	\$67				
Miscellaneous items		14			
Chairs		00			
Advertising		$\frac{50}{37}$			
Repairing hydrant			31,830	72	31,830 72
WASHINGTON PARK.			,		,
Labor	\$98	00			
Repairing fence	130				
Planting trees	467	00			
			695	00	695 00
DEARBORN PARK.	<b># 9</b> 0	10			
Labor	\$33				
Lumber	90 180	00			
Sprinkling		50			
Dirt Planting trees	300				
			674	62	674 $62$
ELLIS PARK.					
Labor	\$4,513	13			
Plumbing	315				
Lumber	25	20			
Repairing pipe	<b>2</b>	50	1.050	mi	10000000
			4,856	79	4,856 79
PUBLIC BUILDINGS-ARMORY					
Labor, carpenter work	752				
Painting		00			
Glazing	21	51	860	51	860 51
COURT HOUSE.			000	01	000 01
Engineer	\$40	00			•
Sprinkling	120				
Glazing		77			
			172	77	172 77
NORTH MARKET.					
Carpenter work	\$209	00			
Painting	490				
Advertising	46	50	745	50	745 50
BRIDEWELL.			140	90	140 00
Carpenter work	\$437	38			
Painting	-	91			
Gas-fitting		09			
Amounts carried forward			\$833.056	68	\$404,751 31

		C	ash Payme	nts.	TrueCost.	
Amounts brought forward	\$482	38	\$833,056	68	\$404,751 31	1
Hardware	-	60				
Oil and lead	27	41				
Lumber	211					
Nails		22				
One scale	88	82	834	977	834 3	7
LUMBER ACCOUNT.			004	01	004 0	•
Lumber purchased and not used			150	00	150 00	0
CHICAGO HARBOR.						
Dredging	\$56,035	73				
Building docks	4,111					
Salary of Harbor Master and Assistant	2,505	96				
Interest on temporary loans	1,543	38				
Labor	408	75				
Inspectors	165	00				
Sounding	273					
Use of tug	183					
Oil for lighthouse		60				
Lightbouse tender		72				
Paint and lead		25				
Painting sign		60				
Printing		50			*	
Rope, etc		80				
Use of docks		00 88				
Advertising		00				
			$65,\!485$	12	65,485 12	2
CHICAGO CEMETERY.			,			
Gate keeper	\$900	00				
Advertising	9	00	0.00	00	000 00	2
HOUSE MOVING AND STREET DEPM			909	00	909 00	J
HOUSE MOVING AND STREET PERMI		00				
Special constables Permit clerks						
			$2,\!254$	89		
Received for permits						
. STREET SIGNS.						
Putting up signs			995	22	995 22	S
STREET LAMPS.						
New lamps and posts	\$404	00				
Repairs on lamps	-	00				
			409	00		
DEDUCT—	\$88	50			320 50	
Amount received for broken posts	ф00	00				-
Amounts carried forward			\$904,094	28	\$473,435 52	3

			Cash Pag	ymei	nt. True Cost.
Amounts brought forward			\$904,094	28	<b>\$473,435</b> 52
PUBLIC HYDRANTS.					
Putting in hydrants	\$186	92			
Repairs of hydrants	92	31	000	-	0.00
HOUSE NUMBERS.			279	23	279 23
Replating plate for number			22	00	
Amount received for numbers\$1,240 00				•••	
WASHINGTON STREET TUNNEL.					
Engineer and fireman	\$494	66			
Labor	1,334	51			
Bricks	787	05			
Coal	118	10			
Cleaning tunnel	699				
Gas fixtures and fitting	309				
Cement	181				
Broom		75			
Hardware		13			
Salt		35			
Packing		36			
Repairing pipe		00			
Step ladder	7	00			
Carpenter work		00			
Hose	14	00			
Gas	28	10	4,163	95	4,163 25
LA SALLE STREET TUNNEL.			4,100	~0	4,100 20
Engineer	\$800	0 <b>0</b>			
Draughtsman	466	64	1.000	0.4	1 0 0 0 0 4
BRIDGE DEPARTMENT.			1,266	04	1,266 64
Carpenter work	\$12,350	39			
Lumber					
Driving piles		39			
Painting and glazing	1,422	68			
Interest on temporary loans	1,290	45			
Assistant Superintendent's salary and car	9.014	C 1			•
fares Balance of contract Twelfth street bridge.	2,014 1,853				
Repairing bridges	3,208				
Iron and nails	1,246				
Waste		30 42			
Repairing clocks		4.2 00			
Brooms		95			
			\$000 90F	40	P 4170 1 4 4 C 4
Amounts carried forward	52,115	39	\$909,825	40	\$479,144 64

Amounts brought forward\$	99.115	20			s. True Cost. © 470-144-64
Use of tugs	\$197		<b>\$</b> 909,629	40	\$413,144 04
Stationery	-	00			
Salt		25			
Car fares		00			
Chain, oakum, etc Castings	$\frac{169}{870}$				
Rollers		50 50			
Labor at shop	250				
Horse feed		15			
Bells		00			
Blacksmith work Tar kettle	288 14	75 00			
One pair oars		75			
Pails	8	50			
Axle grease		50			
Coal	467	50 00			
Hardware		00			
Advertising	268				
Lanterns and repair (f some	334	16			
Oil and lard	266	35	35,457	91	
Deduct—			00,401	91	
<b>Am't rec'd for damages\$345-73</b>					
" " from State st. viaduct, 400-00	745	73			34,712 18
RUSH STREET BRIDGE				•	
Tending bridge			2,300	00	2,300 00
STATE STREET BRIDGE.					
Tending bridge		• • •	1,960	0 <b>0</b>	1,960 0 <mark>0</mark>
CLARK STREET BRIDGE.					
Tending bridge		• • •	1,940	00	1,940 00
WELLS STREET BRIDGE.					
Tending bridge	• • • • • •		1,940	00	1,940 00
LAKE STREET BRIDGE.					
Tending bridge	• • • • • •	•••	1,940	00	1,940 00
RANDOLPH STREET BRIDGE.					
Tending bridge	• • • • •	•••	1,780	00	1,780 00
MADISON STREET BRIDGE.					
Tending bridge			1,700	00	1,700 00
Amounts carried forward	••••		\$958,843	31	\$527,416 82

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	Cash Payments.	True Cost.
Amounts brought fo ward	\$958,843-31	\$527,416 82
VAN BUREN STREET BRIDGE.		
Tending bridge	1,660 00	1,660 00
POLK STREET BRIDGE.	-	
Fox & Howard, constructing bridge\$29,708         68           A. Wallbanm, building abutment         2,217         83           Tending bridge         1,600         00           Fox & Howard, extras         987         80		
TWELFTH STREET BRIDGE.	34,514 31	34,514 31
Tending bridge	1,600 00	1,600 00
EIGHTEENTH STREET BRIDGE.	, -	-,
Tending bridge	1,600 00	1,600 00
HALSTED STREET BRIDGE.	,	-,
Tending bridge	1,600 00	1,600 00
ARCHER AVENUE BRIDGE.	,	-,
Fox & Howard, Est No. 1, const. bridge \$6,000 00		
Tending bridge	0 500 00	
FULLER STREET BRIDGE.	6,520 00	6,520 00
Tending bridge	520 00	$520 \ 00$
REUBEN STREET BRIDGE.		
Tending bridge	$520 \ 00$	$520 \ 00$
KINZIE STREET BRIDGE.		
Fox & Howard, constructing bridge\$15,850 00 Tending bridge 1,715 00 INDIANA STREET BRIDGE.	17,565-00	$17\ 565\ 00$
Fox & Howard, constructing bridge\$43 500 00           Tending bridge		
	45,035-00	45,055-00
ERIE STREET BRIDGE.	1 460 00	1 100 00
CHICAGO AVENUE BRIDGE.	1,460 00	1,460 00
Tending bridge	1 900 00	
NORTH AVENUE BRIDGE.	1,380 00	1,380 00
Tending bridge	<b>1700 00</b>	
CLYBOURN AVENUE BRIDGE.	780 00	780 00
Tending bridge	520 00	590.00
-		520 00
\$1,	074,117 62 \$(	542,691 13

		Cash Pay	ments. True Cos	t.
Amounts brought forward	•	\$1,074,117	62 \$642,691 1	3
NORTH HALSTED STREET BRID	ЗЕ.			
Tending bridge		1,040	00 1,040 0	00
THROOP STREET BRIDGE.				
Tending bridge		1,460	00 1,460 0	0
		1,400	1,400 0	0
WESTERN AVENUE BRIDGE.				
F. E. Canda, constructing bridge		8,925	00 8,925 0	0
ADAMS STREET BRIDGE.				
Fox & Howard, constructing bridge	\$40,947 04			
Building viaduct	3,640 51			
" abutment	2,943 05			
Inspector	$50 \ 00$			
Interest on temporary loan	666 66			-
DIVISION STREET BRIDGE.		48,247	26 48,247 2	6
	49 004 04			
Fox & Howard, constructing bridge				
Tending bridge		3,902	59 3,902 5	9
LAND DAMAGES.		0,0010		Ĩ
For land damages at Adams st. bridge.		22,738	00 92,738 0	0
PUBLIC BENEFITS.				
Paving intersections of streets \$2	67,625 19			
Labor on catch basins	7,482 25			
Improvement of sidewalks	3,045 77			
Opening streets	4,599 81		ñ	
Widening streets	2,897 78			
Filling intersections	$1,336\ 42$			
Graveling	2,068 03			
Cement for catch basins	1,147 09			
Lumber""""	$832 \ 19$			
Patent fees on pavement	701  13			
Lamp posts	$258 \ 33$			
Planking alleys	446 20			
Drains	61 90			
Ashes	10 00	292,512 0	9 292,512 0	9
	-			
Total cash expenditures	5	\$1,452,942 5	6 \$1,021,516 0'	7

## CITY BRIDEWELL FUND.

## TRIAL BALANCE, LEDGER, BOARD OF PUBLIC WOKKS, MARCH 31ST, 1870.

			Dr.	Cr.
City Bridewell Funds in l	iands of	f Treasurer	\$27,977 06	
City Bridewell Bonds		•••••		\$250,000 00
Discount on City Bridewe			12,897 43	
Miscellaneous expense			11,224 49	
J. M. Van Osdell, Archite			4,000 00	
Kavanagh & Merriman, C			89,743 54	
Clancey, Webb & Co.,	66	· · · · · · · · · · · · · · ·	1,900 00	
Carter Brothers,	""		65,000 00	
Stewart & Eddy,	"		11,500 00	
Keeney & Campbell,	44		17,413 48	
J. W. Newell,	66		1,000 00	
A. Knisely,	66		5,000 00	
Richard Riley,	44		2,244 00	
Peterson & Patterson,	"		200 00	•
			\$250,000 00	\$250,000 00

## CITY BRIDEWELL FUND.

STATEMENT showing the cash receipts and detailed account of work done under the charge of the Board of Public Works, during the year ending March 31, 1870:

### RECEIPTS.

Proceeds of 219 Municipal Bonds .... \$206,827 57

#### $\mathbf{E} \mathbf{X} \mathbf{P} \mathbf{E} \mathbf{N} \mathbf{D} \mathbf{I} \mathbf{T} \mathbf{U} \mathbf{R} \mathbf{E} \mathbf{S}.$

MISCELLANEOUS EXPENSE.

Cash Payments. True Cost.

		U	asn 1 ayme	nus.	1/46 003	<i>v</i> .
Dredging	.\$7,892	48				
Labor	1,250	50				
Lumber	. 1,126	20				
Express on Bonds	. 76	00				
Engraving Bonds	. 120	00				
Nails	. 101	50				
Constructing drain	. 366	35				
Advertising	. 46	50				
Hardware	. 15	00				
Watchman	. 180	65		10	111 1PP	10
			\$11,175	18	\$11,175	18
CONTRACTS.						
J. M. Van Osdel	\$ 2,000	00				
Kayanagh & Merriman	87,943	54				
Clancey, Webb & Co	1,900	00				
Carter Brothers	65,000	00				
Streeter & Eddy	11,500					
Heeney & Campbell	17,413	48				
J. W. Newell	1,000					
A. Knisely	5,000					
Richard Riley	2,244					
Peterson & Patterson	200	00	104.001	00	104 001	00
	. <u> </u>		194,201	02	194,201	02
Total cash expenditures		•••	\$205,376	20	\$205,376	20
			terre and the second second		100 miles	121227

## CITY HALL FUND.

## TRIAL BALANCE, LEDGER, BOARD OF PUBLIC WORKS, MARCH 31, 1870.

	Dr.	Cr.
City Hall Funds in hands of City Treasurer (	\$45,866 7	70
City Hall Bonds		\$327,000 00
Discount on City Hall Bonds	17,417 9	05
City Hall miscellaneous expense	14,350 9	)3
N. P. Loberg, Contractor	42,500 (	00
L. H. Boldenweck, "	108,500 (	00
Rose & Chapman, Architects	7,500 0	00
Allen & Bartlett, Contractors	9,750 (	00
F. Letz & Son, "	47,000 0	00
Walworth, Twohig & Furze, "	21,540 (	00
J. Hogan, "	6,479 8	33
A. Knisely, "	3,294	59
R. M. Welch, "	2 000 (	00
Clark, Raffin & Co., "	800 (	00
· · ·	\$327,000 (	90 \$327,000 00

## CITY HALL FUND.

STATEMENT showing the Cash Receipts and detailed account of work done during the year ending March 31st, 1870.

#### RECEIPTS.

Proceeds of 267 Municipal Bonds ......\$251,286 31

#### EXPENDITURES.

#### MISCELLANEOUS EXPENSES.

\$601 69 1,420 90 Extension of pipe ..... 527 28 280 58 Sewer pipe ..... 273 22 112 00 Engraving bonds ..... Vault lights ..... 118 66 Salary of engineer and fireman ..... 993 00 Express on bonds..... 88 00 23 75 Felting pipe..... Stationery..... -3 50 Cement ..... 27 68 Interest on loan..... 60 16 65 00Advertising ..... Caulking walks..... 60 32 Hardware ..... 95 04 Hose..... 12 55\$4,763 33 \$4,763 33 CONTRACTS. L. H. Boldenwiek " Rose & Chapman, Architects ..... 5,500 00 Allen & Bartlett, Contractors..... 9,750 00 66 F. Letz & Son, . . . . . . . . . . . 47,000 00 Walworth, Twohig & Furse, Contractors. 21,540 00 Joseph Hogan, Contractor..... 6,479 83 3,294 59 A. Knisely R. M. Welch 2.000 00800 00 Clark, Raffin & Co..... 237,364 42 237,364 42 Total cash expenditures..... \$242,127 75 \$242,127 75

189

Cash Payments. True Cost.

## LA SALLE STREET TUNNEL FUND.

# TRIAL BALANCE, LEDGER, BOARD OF PUBLIC WORKS, MARCH 31ST, 1870.

	Dr.	Cr.
La Salle St. Tunnel Fund	\$89,991 22	
Miscellaneous expense	12,060 23	
R. E. Moss, Contractor		
Discount on La Salle St. Tunnel Bonds	7,849 89	
La Salle St. Tunnel Bonds		\$155,000 00
	\$155,000 00	\$155,000 00

## LA SALLE STREET TUNNEL FUND.

STATEMENT of the Cash Receipts and detailed account of work done under the charge of the Board of Public Works, during the year ending March 31, 1870:

#### RECEIPTS.

Proceeds of 155 Municipal Bonds	\$147,150	11	
Contract forfeit	200	00	
			\$147,350 11

#### EXPENDITURES.

Sewer pipe..... \$1,350 00 Assistant Engineer ..... 1,200 00 Inspectors ..... 2,043 92 224,172 lbs. asphalt ..... 5,716 39 Labor..... 690 00 Draughtsman ..... 699 96 130 00 Engraving bonds ..... Lamps ..... 9 20 Advertising .....  $100 \ 45$ 23 00Stationery..... 60 00 Printing ..... Hardware..... 11 85 109 13 Cement ...... 100 00 Express on bonds..... Nails ..... 7 33 9 00 Coal ..... \$12,260 23 DEDUCT-Amount received for contract forfeit... \$200 00 \$12,060 23 CONTRACT. R. E. Moss, on account..... 45,098 66 45,098 66 Total cash expenditures..... \$57,358 89 \$57,158 89

191

Cash Payments, True Cost.

# WASHINGTON STREET TUNNEL FUND.

STATEMENT showing the Cash Receipts and detailed account of work done under the charge of the Board of Public Works during the year ending March 31st, 1870.

RECEIPTS.

Proceeds of 117 Municipal Bonds.....\$110,707 57

### EXPENDITURES.

Rent of Dock	\$325		h Paymen	ts.	True (	Cost.
Coal	*	00				
Таре		20				
Advertising		38				
Hardware		55				
Assistant Engineer		58				
Draughtsman		32				
Repairing gas pipe	365					
Iron fence	1,160	74				
Painting	135					
Pay-roll Inspectors	777	78				
Repairing dock	397	66				
Cement	186	80				
Paint brushes	7	20				
Gas fitting	22	85				
Miscellaneous cash items	33	54				
Ladder	5	00				
Building sewer torn up for construction	1,668	75				
Labor	1,114	30				
Plumbing	794	26				,
Damages	7,406	00			,	
Repairing dock	139					
Labor at shop	238	79				
Lumber	65					
One dump cart	125					
Engraving	368	00				
Pumping engine and fixtures	2,592	36				
Brick	1,488		00.000 9	0	കററററ	e 20
			20,296 3	2	\$20,29	0 32
CONTRACT.						
Paid James K. Lake & Co., in full		(	61,832 40	6	61,83	2 46
Total cash expenditures		\$	82,128 78	8	\$82,12	8 78

### **RECAPITULATION.**

### $R \in C \in IPTS.$

Water Fund	\$1,087,079 27
Sewerage Fund	. 1,167,479 97
River Improvement Fund	. 953,252-10
City Appropriation Fund	. 1,685,734 92
City Bridewell Fund	
City Hall Fund	. 251,286 31
LaSalle Street Tunnel Fund	. 147,350 11
Washington Street Tunnel Fund	
Sewerage Sinking Fund	. 74,954 44
Total receipts	

\$5,684,672 26

### EXPENDITURES.

Water Fund	\$1,026,021	32	
Sewerage Fund	1,155,189	56	
River Improvement Fund	771,517	55	
City Appropriation Fund	1,452,942	56	
City Bridewell Fund	205,376	$\underline{20}$	
City Hall Fund	242,127	75	
LaSalle Street Tunnel Fund	57,358	89	
Washington Street Tunnel Fund	82,128	78	
Sewerage Sinking Fund	37,523	18	
Total expenditures			\$5,030,185 79

Respectfully submitted,

E. M. JOHNSON, Bookkeeper.

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TD 25 C5 A3 ATK(1576) RARE BK RM

