

Council Chamber, Ann Arbor, Mich., Feb. 7, 1921. Regular Session.

Meeting called to order by Pres. Lewis. Present: Ald. Sugden, Slauson, Ehnis, Haarer, Henderson, Lucas, Groves, Donnelly, Moore, Spathelf, MacGregor, Reichert, Lutz, Pres. Lewis, 14. Absent: Ald. Freeman, 1. Minutes of previous meeting approved.

### Communications

#### From Mayor.

Jan. 26, 1921.

To the Honorable, the Common Council, Gentlemen: I hereby announce the appointment of Gustav F. Meyer as substitute patrolman with pay from city.

Very respectfully yours, Ernst M. Wurster, Mayor.

Moved by Ald. Sugden, that appointment be confirmed, which motion was adopted by unanimous vote of those present, 14.

#### From Board of Public Works.

To the Board of Public Works, Ann Arbor, Michigan, Gentlemen: We submit the following report on the Hill street storm sewer.

1123 lin. ft. 12 in vit. pipe	\$ 814.88
510 lin ft. 10 in. vit pipe	155.68
5-12 in. ells	14.75
4 0 in. ells	9.76
1400 Brick	39.20
2000 Brick from yard	10.00
5 Manhole rings and covers	90.00
9 Cast iron inlets	256.00
Labor	1249.21
Supervision by St. Commissioner	102.00
Engineering and supervision by City Engineer	96.77
Supplies, sharpening picks, etc.	14.50
Cement and Lime	26.70

Total cost	\$2,909.45
Bid price	\$5,382.80
Actual cost	2,909.45

Saving over bid price \$2,473.35

Respectfully submitted, Geo. H. Sandenburgh, City Engineer, A. J. Paul, Street Commissioner.

Approved by Board of Public Works and referred to Council.

Moved by Ald. Sugden, that report be approved, which motion was adopted by unanimous vote of those present, 14.

To the Honorable, Common Council, of the City of Ann Arbor.

Take notice that the Board of

Health of the township of Scio in the County of Washtenaw and State of Michigan, does hereby object to, and protest against, the further deposit of any garbage whatever within the confines of the said township of Scio.

Dated Ann Arbor, Michigan, February 7th, 1921. Signed Board of Health of the township of Scio. By J. F. Harner, Its Attorney.

Referred to City Attorney, Health Officer and Special Committee on Garbage.

Petition of Mark B. Sugden, et al. for curb & gutter from east line of State st. to the east line of Ingalls st. and thence south on the east side of Ingalls st. to Cornwell place and south on the west side of Ingalls st. to Lawrence st., received and referred to Street committee.

Petition of Dan Katopoe, et al. to amend ordinance relative to Coffee houses, received and referred to Ordinance committee.

Petition of the Community Federation for appropriation for Community House received and referred to Finance committee.

Agreement with Michigan Central Railroad Company, permitting city to locate, maintain and use sewer across their right of way and under their tracks at a point approximately 400 feet east of the east end of their passenger station, received.

Moved by Ald. Lutz, that the Mayor and City Clerk be authorized to sign agreement for city.

Adopted by following vote: Yeas Ald. Sugden, Slauson, Ehnis, Haarer, Henderson, Lucas, Groves, Donnelly, Moore, Spathelf, MacGregor, Reichert, Lutz, Pres. Lewis, 14. Nays, none.

### FINANCE REPORT.

#### Contingent Fund

Ernst M. Wurster, salary	41.66
I. G. Reynolds, salary	208.33
Ross Granger, salary	208.33
Herbert W. Crippen, salary	208.33
Geo. H. Sandenburgh, salary	250.00
Alfred J. Paul, salary	208.33
Frank B. Devine, salary	166.66
H. R. Scovill, salary	166.66
John A. Wessinger, salary	150.00
Julius Lohrke, salary	125.00
Douglas Bycraft, salary	125.00
Marcia M. Minnis, salary	100.00
T. P. Stowe, salary	100.00
Henrietta Disderide, salary	90.00
R. M. Caughey, salary	90.00
M. E. Easterly, salary	90.00
Ned R. Smith, salary	75.00
Edwin Ganzhorn, salary	50.00
Frank Marz, salary, half month	74.64

Jessie Crippen, salary .....	83.33
Florence Hallen, salary .....	83.33
Philip O'Hara, salary .....	125.00

Contingent fund total salaries \$2,819.60

**Fire Fund.**

Chas. Andrews, salary .....	\$ 95.16
Eugene Williams, salary .....	81.48
Ralph Edwards, salary .....	81.48
Henry McLaren, salary .....	77.65
Jacob Gwinner, salary .....	77.65
Frank Markey, salary .....	74.64
Herman Kruse, salary .....	74.64
Emil Dammin, salary .....	74.64
Mat. Heininger, salary .....	74.64
Floyd Naylor, salary .....	74.64
Claud Cobb, salary .....	74.64
Earl Arnold, salary .....	74.64
Fred Nordman, salary .....	74.64
Benj. Zahn, salary .....	74.64
Henry Nevroth, salary .....	74.64
Raymond Gillespie, salary .....	74.64
Wm. Winger, salary .....	67.96
Ross Moore, salary .....	67.96
Chas. Carroll, salary .....	42.01

Fire fund total salary, half month, January .....\$1,412.99

**Police Fund.**

Thos. O'Brien, salary .....	\$95.16
Wm. Aprill, salary .....	74.64
Ed. Blumhardt, salary .....	74.64
Frank Keihl, salary .....	74.64
Marlend Howard, salary .....	74.64
Clyde Bennett, salary .....	74.64
Chas. Splitt, salary .....	74.64
Joseph Gast, salary .....	74.64
Geo. Randel, salary .....	74.64
Jacob Andres, salary .....	67.96
Louis Foley, salary .....	67.96
Robert Clark, salary .....	39.83
Dee Gardner, salary .....	67.96

Police fund total salaries, half month, January .....\$935.99

**Poor Fund.**

John Shadford, salary .....	\$50.00
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**Cemetery Fund.**

Herman Zulz, salary .....	75.00
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**Park Fund.**

E. A. Gallup, salary .....	\$208.33
Henrietta Disderide, salary .....	10.00

Park fund total salaries.....\$218.33

**Water Works Fund**

Geo. S. Vandewarker, salary .....	\$208.33
Leslie Bush, salary .....	192.50
Dr. H. Emerson, salary .....	50.00
E. Cornell, salary .....	10.00
Geo. Mann, salary .....	20.00
John Lindenschmitt, salary .....	20.00
Wirt Cornwell, salary .....	20.00

Total monthly salaries.....\$520.83

Harry Willsher, salary .....	\$64.62
F. K. Pullen, salary .....	44.06
Emanuel Sadt, salary .....	77.55
Fred Linde, salary .....	68.55
John Volland, salary .....	48.47
John Schwikart, salary .....	48.47
Robt. Rowe, salary .....	51.70
Robt. Young .....	48.47
A. E. Hawkes, salary .....	55.00
Cliff Shetterly, salary .....	77.55
Leuise Malloy, salary .....	55.00
Russell Pryce, salary .....	55.00

Wm. Groves, salary .....	50.00
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Total semi-monthly salaries....\$744.64

Water Works fund total salaries .....\$1,265.47

**Contingent Fund.****Engineer Dept.**

Karl Krumrei, services .....	\$ 11.70
James Mason, services .....	12.68
V. W. McAdam, services .....	110.50
Martin Walsh, services .....	4.50

Total Engineer Dept. ....\$139.38

H. W. Wagoner, collecting garbage .....	\$1,000.00
Washtenaw Gas Co., city hall..	8.69
Emily Zeeb, services .....	12.00
The Detroit Edison Co., services	40.05
Washtenaw County, court fees..	3.00
E. F. Chase, services .....	17.00
E. A. Clark, services .....	5.00
Howard H. Cummings, services	8.00
Edwin C Ganzhorn, services ..	16.00
Jeanne Solis, services .....	11.00
Callaghan & Co., supplies ....	20.00
Continental Chemical Corp., supplies .....	48.00
Standard Oil Co., coupon books	30 00
Ann Arbor Foundry Co., supplies .....	250.00
Irwin M. Clements, supplies ...	29.99
Dean & Co., Ltd., supplies ....	2.85
Eberbach & Son Co., supplies ..	26.88
Jno. C. Fischer Co., supplies..	.25
Fischer's Pharmacy, supplies..	1.00
The Goodyear Drug Co., supplies	23.00
Herrick & Bohnet, supplies....	3.25
Staebler & Son, coal .....	151.90
The Ann Arbor Times News, printing .....	253.55
F. J. Gardner, burial animals..	3.00
Henry G. Pipp, election booths	36.70
Economy Garage, storage, etc.	10.30
Fairbanks, Morse & Co., repairs, scales .....	10.20
H. W. Crippen, expenses paid	1.49

Total supplies, etc. ....\$2,023.10

Contingent fund total including salaries .....\$4,982.08

**Fire Fund**

Washtenaw Gas Co., light, etc..\$	8.59
The Detroit Edison Co, light....	13.32
White Swan Laundry Co., laundry	33.64
American-LaFrance Fire Engine Co., supplies .....	44.10
H. E. Edwards & Co., supplies	7.43
S. C. Andres, supplies .....	.80
Dean & Co., Ltd., supplies .....	19.35
Kyer & Whitker, supplies .....	13.65
The Mayer-Schairer Co., supplies	6.00
Schumacher Hardware Co., supplies, etc. ....	6.45
Chas. Wuerth & Co., supplies..	9.00
Staebler & Son, coal .....	359.14
Ann Arbor Garage, repairs.....	13.50
City of Detroit, repairs .....	4.30
D. D. Malloy, supplies, etc....	3.95
Staebler & Sons, supplies .....	1.55
C. E. Godfrey, cartage, etc....	3.18

Total supplies, etc.....\$ 547.95

Fire fund total including salaries .....\$1,960.94

<b>Police Fund</b>	
Michigan State Tel. Co., tolls....	\$ 7.50
Gustave Meyer, special .....	39.83
The Western Union Telegraph Co., telegrams .....	13.94
Harvey Stofflet, subscriptions ..	16.80
City Garage, supplies .....	2.98
John M. Feiner, supplies.....	17.63
E. G. Hoag, supplies.....	1.00
Reule, Conlin, Fiegel Co., supplies .....	60.00
Schumacher Hardware Co., supplies .....	17.80
Geo. Wahr, supplies .....	1.60
C. W. Morris, signs .....	4.00
Weissinger Sign Works, lettering .....	4.00
Ann Arbor Taxicab & Transfer Co., ambulance call .....	4.00
City Taxi & Baggage Line, services .....	1.50
Ann Arbor Garage, repairs.....	12.63
D. J. Malloy repairs.....	5.60
Wolf Colvin, repairs .....	3.25
<b>Total supplies, etc. ....</b>	<b>\$214.06</b>

Police fund total including salaries .....

<b>Poor Fund.</b>	
Mrs. Evan Essery, Treas. Old Ladies' Home .....	\$ 12.00
A. M. Spathelf, supplies .....	20.56
A. A. Dairy Co., supplies .....	2.80
Rash & Sons, supplies .....	13.96
Artificial Ice Co., coal .....	52.50
Staebler & Son, coal .....	500.38
<b>Total supplies, etc. ....</b>	<b>\$602.20</b>

Poor fund total, including salary .....

<b>Cemetery Fund</b>	
Jno. C. Fischer Co., supplies ...	\$ 1.00
<b>Cemetery fund total, including salary .....</b>	<b>\$96.00</b>

<b>Street Lighting Fund</b>	
The Detroit Edison Co., light..	\$1,851.20

<b>Water Fund</b>	
Water Works Dept., hydrant rentals, etc. ....	\$2,234.71

<b>Water Works Fund</b>	
Crane Co., supplies .....	\$ 20.10
Peninsular Leather Special Co., supplies .....	16.00
Washtenaw Lumber Co., supplies .....	12.51
Jno. C. Fischer Co., supplies....	14.60
United Brass Mfg. Co., supplies .....	7.05
The Pruner Coal Co., supplies .....	96.40
Staebler & Co., supplies .....	60.00
L. J. Young, services .....	20.00
R. Craig, Jr., services .....	15.00
R. Watson, services .....	10.00
City of Ann Arbor, services .....	269.06
N. Ottmar, garage rent .....	4.00
C. E. Godfrey, cartage, etc.....	2.18
C. Hale, services .....	3.50
Weissinger Sign Works, services .....	1.50
C. E. Godfrey, cartage, etc.....	38.67
Ross Granger, renewal and replacement expenses .....	1,000.00

Water Works Dept. expenses..	2.91
<b>Total supplies, etc. ....</b>	<b>\$1,593.48</b>
F. Rhodenbuecher, labor .....	\$ 21.00

Water Works fund total, including salaries .....

<b>Park Fund</b>	
Ezra Moore, labor .....	\$ 21.00
Water Works, Dept. water and pavement replaced .....	10.15
Standard Oil Co., coupon book..	10.00
A. M. Spathelf, supplies .....	5.51
Street Dept., Ann Arbor, supplies .....	1.52
Henry S. Platt, repairs .....	1.00
Schumacher & Backus, repairs..	2.65
<b>Total supplies, etc. ....</b>	<b>\$ 51.83</b>

Park fund total including salaries .....

<b>Street Fund</b>	
Chris. Allmendinger, labor .....	\$ 29.60
L. C. Bird, labor .....	3.25
Sam. Kalmbach, labor .....	10.00
W. H. Romig, labor .....	16.80
Frederick Ullrich, labor .....	20.80
Jno. Wendland, labor .....	35.20
Gei. Ziefle, labor .....	9.20
Chas. Flewelling, team .....	7.11
W. J. Grayer, team .....	7.11
Jno. E. Herrest, team .....	10.67
Carl Rehberg, team .....	11.56
Jacob Young, team .....	18.67

<b>Total labor .....</b>	<b>\$179.97</b>
Standard Oil Co., oil .....	\$ 5.88
Jno. C. Fischer Co., supplies....	7.98
Oswald A. Herz, supplies .....	.50
P. Lansky, supplies .....	15.00
Schumacher Hardware Co., supplies, .....	2.85
W. L. Henderson, storage, etc...	7.60
Hutzel & Co., repairs, etc. ....	36.03
Edward Hammel, repairs .....	1.75

Total supplies, etc .....

Street fund total .....

<b>Bridge, Culvert and Crosswalks Fund</b>	
Jeery Bates, labor .....	\$ 20.50
Geo. Bennett, labor .....	28.00
L. G. Bird, labor .....	87.75
Jim Brown, labor .....	28.00
Fred G. Hanselman, labor .....	92.95
Walter Herbert, labor .....	21.50
Emanuel Holzappel, labor .....	87.75
Charley Janouski, labor .....	24.00
Karl Krumrei, labor .....	50.70
Jim Lipiri, labor .....	67.50
Jno. MacFall, labor .....	28.00
Fred Mack, labor .....	32.00
James Mason, labor .....	82.88
Leo. Ritz, labor .....	28.00
Ed. Roehm, labor .....	28.00
Paul Rohde, labor .....	59.50
Chas. Sage, labor .....	36.00
Matt. Schaible, labor .....	43.50
Oscar Scherdt, labor .....	32.00
Chas. Schneider, labor .....	57.50
Jake Sindlinger, labor .....	65.00
Martin Walsh, labor .....	38.10
Pat. Welsh, labor .....	71.50
Jos. L. Arnet, team .....	11.50
W. J. Grayer, team .....	11.56
Carl Rehberg, team .....	23.11

Jacob Young, team .....	57.33
Total labor .....	\$1,214.13
American Vitrified Products Co., sewer pipe .....	\$ 619.56
James B. Clow & Sons, sewer pipe .....	768.97
Martin Dawson Co., sewer pipe .....	69.44
The Robinson Clay Product Co., sewer pipe .....	417.34
The Koch Building & Supply Co., sewer pipe .....	79.50
Wm. H. L. Rohde, supplies ....	119.95
The C. A. Sauer Co., Inc., sewer pipe .....	254.40
Michigan Central R. R., freight ..	121.56
The Ann Arbor R. R., freight ..	153.53
Total supplies, etc. ....	\$2,584.54

Bridge, Culvert and Crosswalks fund total .....\$3,798.67

**RECAPITULATION**

Contingent .....	\$ 4,982.08
Fire .....	1,960.94
Police .....	1,150.05
Poor .....	652.20
Cemetery .....	96.00
Street lighting .....	1,851.20
Water .....	2,234.71
Water Works .....	2,879.95
Park .....	270.16
Street .....	257.56
Bridge, Culvert and Crosswalk .....	3,798.67

Total City funds .....\$20,133.52  
Ann Arbor, Mich., Feb. 7, 1921.

To the Finance Committee of the Common Council: Gentlemen—I have examined the foregoing accounts against the city of Ann Arbor, and I hereby certify that they are correct to the best of my knowledge.

ISAAC G. REYNOLDS, City Clerk.

To the Honorable, the Common Council: Gentlemen—Your Finance committee has reviewed the foregoing report. Warrants for salaries were drawn Feb 1, 1921. We recommend that same be approved and that warrants be ordered drawn for the foregoing accounts.

GEORGE LUTZ, GEORGE HAARER, ALBERT D. GROVES, Finance Committee.

Ald. Lutz moved the adoption of report, which was adopted by following vote: Yeas. Ald. Sugden, Slauson, Ehnis, Haarer, Henderson, Lucas, Groves, Donnelly, Moore, Spathelf, MacGregor,

Reichert, Lutz, Pres. Lewis, 14. Nays, none.

**Lighting Committee.**

To the Honorable, the Common Council, Gentlemen: Your Lighting committee respectfully recommends that 250 c. p. lamp be installed at corner of Observatory and Vol and sts.

Respectfully submitted, C. T. Donnelly, Geo. Haarer, R. E. Reichert.

Ald. Donnelly moved the adoption of report which was adopted by following vote: Yeas Ald. Sugden, Slauson, Ehnis, Haarer, Henderson, Lucas, Groves, Donnelly, Moore, Spathelf, MacGregor, Reichert, Lutz, Pres. Lewis, 14. Nays, none.

**Special Committee Report.**

To the Honorable, the Common Council, Gentlemen. Your special committee, to whom was referred the proposals for collecting and disposing of garbage, respectfully recommends that all bids be rejected and the City Clerk instructed to re-advertise for bids to be received by this special committee February 17, 1921, at 7:30 o'clock p. m., according to specifications prepared by City Attorney.

Respectfully submitted, E. K. Lucas, M. B. Sugden, Geo Lutz, W. S. Moore, A. D. Groves, Geo. Lutz, W. S. Moore, A. D. Groves, Geo. Haarer, Special Committee.

Ald. Lucas moved the adoption of report which was adopted by following vote: Yeas, Ald. Sugden, Slauson, Ehnis, Haarer, Henderson, Lucas, Groves, Donnelly, Moore, Spathelf, MacGregor, Reichert, Lutz, Pres. Lewis, 14. Nays, none.

**Officers' Reports.**

The annual report of the Board of Public Works, consisting of annual reports of City Engineer and Street Commissioner were presented and ordered printed in 10 minutes.

Ann Arbor, Michigan,  
January 19, 1921.

To the Board of Public Works, Ann Arbor, Michigan. Gentlemen: I submit herewith, a detailed report of the work done in my department, during the year 1921.

Very respectfully submitted,  
GEO H. SANDENBURGH,  
City Engineer.

**PAVING.**

There were no new paving contracts let during the year 1920, however, it was deemed advisable to lay out a paving program from year to year. It will be the policy of the Board of Public Works to have all underground construction work done at least one year before pavements

are built. Under these conditions it will be impossible to build any new pavements during the year 1921. The 1922 program will include the paving of North State Street, from Huron Street to Fuller Street; Hill Street, from Packard Street to Washtenaw Avenue; Packard Street, from Granger Avenue to the city limits.

All the pavements started during the season of 1919 were completed this year, and were opened to traffic during the summer months.

**DISTRICT NO. 39. DETROIT STREET PAVEMENT:** Plans and specifications were submitted to and approved by the Board of Public Works, May 7, 1919, and approved by the Council, May 19, 1919. Bids were received June 11, 1919 and the contract awarded to William J. Clancy on June 16, 1919. Due to the scarcity of labor and the difficulty in obtaining materials this pavement was not completed until July, 1920. The total cost of this pavement has been as follows,

Contract cost .....	\$30412.13
Engineering and contingencies .....	644.42
Inspection ..	293.48

Total cost .....\$31350.03

This total cost has been distributed between the city and the property owners as follows:

City share .....	\$20501.60
Property share .....	10448.43

The contractor's unit prices were as follows

Price per square yard vitrified brick pavement, \$2.25.

Price per lineal foot for stone curbing, \$.90.

Price per cubic yard for concrete foundation, \$6.74.

Price per lineal foot for stone header, \$.90.

Price per cubic yard for excavation, \$1.10.

The total cost per square yard was \$4.32.

This pavement is of a high-grade vitrified brick surface laid on a concrete foundation, six inches thick, mixed in a proportion of one part of cement to five parts of gravel. Over the top of the concrete foundation, is a layer of dry sand, one inch in thickness. The brick were laid on this sand cushion and thoroughly rolled to an even bearing, before the application of the grout. The spaces between the brick were filled with cement-sand grout mixed in a proportion of one part of cement to one part of sand. The specifications for this pavement called for a cement-sand cushion, but due to the cold weather at the time the brick were being laid a resolution was passed by the Board of Public Works, ordering me to change the specifications to a straight sand cushion. In consideration of this change, an agreement was made with Mr. William J. Clancy, the contractor, whereby he deducted thirteen cents (\$.13) per square yard from the bid price for brick surface.

The cost of engineering amounts to two and one-tenth per cent (2.1 percent) of the contract cost, and the cost of inspection amounts to nine-tenths per cent (.9 percent) of the cost of construction.

**DISTRICT NO. 40, CATHERINE STREET, FOURTH AVENUE, AND DETROIT STREET PAVEMENT:** Plans and specifications were submitted to and approved by the Board of Public Works on May 7, 1919 and approved by the Council on May 19, 1919. Bids were received on June 11, 1919 and the contract awarded to William J. Clancy on June 16, 1919. Due to the scarcity of labor and the difficulty in getting materials this pavement was not completed until July, 1920. The total cost of this pavement has been as follows,

Contract cost .....	\$25522.21
Engineering and contingencies .....	587.45
Inspection .....	309.80

Total cost .....\$26419.46

The total cost of this pavement has been distributed between the city and the property owners as follows:

City share .....	\$11162.51
Property share .....	15256.95

The cost of engineering amounts to 2.3 percent of the contract cost, and the cost of inspection amounts to 1.2 percent of the contract cost.

This is the same class of pavement as that laid on Detroit Street, and described under the heading of "Detroit Street Pavement." The unit prices are the same as on the Detroit Street Pavement..

**DISTRICT NO. 43, EAST UNIVERSITY AVENUE PAVEMENT:** Plans and specifications were submitted to and approved by the Board of Public Works on May 7, 1919 and approved by the Council on May 19, 1919. Bids were received on June 11, 1919 and the contract awarded to Letchfield and Stewart, on June 16, 1919. This pavement extends from North University Avenue to Hill Street, being forty feet wide from North University Avenue to South University Avenue, and thirty-four feet wide from South University Avenue to Hill Street. Due to the scarcity of labor and work being started late in the season, this pavement was not completed until October, 1920. The total cost of the pavement has been as follows:

Contract cost .....	\$28136.49
Engineering .....	463.49
Inspection .....	328.15
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Total cost .....	\$28928.46

The cost of engineering amounts to 1.5 percent of the contract cost, and the cost of inspection amounts to 1.1 percent of the contract cost. The contractor's unit prices were as follows

Price per square yard for asphaltic concrete surface,	\$1.30.
Price per cubic yard for concrete foundation,	\$6.60.
Price per lineal foot for concrete curb and gutter,	\$.80.
Price per cubic yard for excavation,	\$.90.
Price per lineal foot for concrete headers,	\$.90.

The total cost per square yard was \$3.20. The total cost of this pavement has been distributed between the city and property owners as follows:

City share .....	\$ 9455.47
Property share .....	19472.99

This is an asphaltic concrete pavement, composed of a two inch asphaltic concrete wearing surface laid on a six inch Portland cement concrete foundation. Materials used in the foundation were bank run gravel, from the Kappler pit on the Pontiac Road, mixed in a proportion of one part of cement to five parts of gravel. The asphaltic concrete wearing surface was laid under the Topeka specification with Astezc asphalt, manufactured by the United States Refining Company. Stone used, was crushed limestone, obtained from quarries in Northern Illinois. The sand used, was obtained principally from the Perkins pit on the Fuller Road, and from the Koch pit on Broadway.

The asphaltic concrete wearing surface from North University Avenue to South University Avenue was laid by the Federal Asphalt Paving Company of Hamilton, Ohio. The asphaltic concrete wearing surface, from South University Avenue to Hill Street, was laid by the Ann Arbor Asphalt Construction Company. This work was sub-let to the above Companies by Letchfield & Stewart, the principal contractors.

**DISTRICT NO. 44, SOUTH UNIVERSITY AVENUE PAVEMENT:** Plans and specifications were submitted to and approved by the Board of Public Works on May 7, 1919 and approved by the Council on May 19, 1919. Bids were received on June 11, 1919 and the contract was awarded to Letchfield and Stewart on June 16, 1919. This pavement extends from State Street to Oxford Road, being thirty feet wide, from State Street to East University Avenue, and thirty-four feet wide from East University Avenue to Washtenaw Avenue, and twenty-six feet wide from Washtenaw Avenue to Oxford Road. Due to the scarcity of labor and the difficulty in obtaining materials, this pavement was not completed until October, 1920. The total cost of this pavement has been as follows:

Contract cost .....	\$37682.06
Engineering and contingencies .....	959.03

Inspection ..... 541.75

Total cost .....\$39182.84

\* The cost of engineering amounts to 2.5 percent of the contract cost and the cost of inspection amounts to 1.4 percent of the contract cost. The total cost per square yard of this pavement was \$3.30. The contractor's unit prices were the same as those for East University Avenue. This pavement is the same type as laid on East University Avenue and is described under the heading "East University Avenue Pavement."

DISTRICT NO. 45, PAVEMENT IN ALLEY IN BLOCK 3S, R3E: Plans and specifications for this pavement were submitted to and approved by the Board of Public Works and the Council on June 7, 1920. Bids were ordered received June 19, 1920. No bids were received and the work was carried out under the supervision of the Street Commissioner and the City Engineer. A detailed report of the cost of this pavement is given below:

Labor .....	\$ 654.53
160 bbis. Cement @ \$3.89 .....	622.40
99 loads Gravel @ .50 .....	49.50
15 gals. Gasoline, .305 .....	4.58
Lumber for templates .....	60.28
1 bbl. Joint filler .....	10.50
Supplies .....	10.70
Supervision .....	56.00
Engineering .....	37.74

Total cost .....\$1506.23

This is a two course pavement, seven inches thick, the bottom course being five inches thick of a 1-2-4 mix, and the top course two inches thick, composed of cement and mortar, mixed in proportion of one part cement to two parts sand.

#### CURBS AND GUTTERS.

Plans and specifications for curbs and gutters in Districts Nos. 3, 4, 5, 6, 7, 8, and 9 were submitted to and approved by the Board of Public Works and the Common Council on June 7, 1920. Bids were received on June 16, 1920 and the contracts were awarded June 23, 1920. The contract for the construction of curbs and gutters in Districts 3, 4, 5, and 9, was awarded to Thomas Hession, the contract for construction curbs and gutters in Districts 6, 7, and 8, was awarded to A. F. Thompson. The work in Districts 3, 5, 6, 8, and 9 is completed. District No. 7 is one-half complete and in District No. 4 is three-quarters completed. The contractors bid price was \$1.20 per lineal foot. The total cost of each District is given below:

DISTRICT NO. 3, FOREST AVENUE, WILLARD TO HILL STREET.

Contract cost .....	\$1341.60
Engineering and contingencies .....	74.56

Total cost .....\$1416.16

The total cost has been distributed between the city and the property owners as follows:

City share .....	\$755.48
Property share .....	660.68

DISTRICT NO. 5, CAMBRIDGE ROAD, LINCOLN AVENUE TO BALDWIN AVENUE

Contract cost .....	\$1694.40
Engineering and contingencies .....	146.97

Total cost .....\$1841.37

The total cost has been distributed between the city and the property owners as follows:

City share .....	\$1038.68
Property share .....	810.69

DISTRICT NO. 6, MARTIN PLACE, SCOTT ALLEY TO WELLS STREET.

Contract cost .....	\$1196.40
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Engineering and contingencies ..... 48.32

Total cost .....\$1244.72

The total cost has been disturbed between the city and the property owners, as follows:

City share .....\$770.94

Property share..... 710.94..

DISTRICT NO. 9, FOREST AVENUE, SOUTH UNIVERSITY TO WILLARD STREET.

Contract cost .....\$1022.40

Engineering and contingencies ..... 57.60

Total cost .....\$1080.00

The total cost has been distributed between the city and the property owners, as follows:

City share .....\$555.60

Property share ..... 524.40

Districts Nos. 4 and 7 have not been completed. The total cost of these districts to date is as follows:

DISTRICT NO. 4, HILL STREET, LINCOLN AVENUE TO WASH-TENAW AVENUE.

Contract cost to date .....\$1034.64

Engineering and contingencies ..... 121.50

Total cost to date .....\$1156.14

DISTRICT NO. 7, HILL STREET, OSWEGO TO BERKSHIRE ROAD.

Contract cost to date .....\$1182.60

Engineering and contingencies ..... 169.94

Total cost to date .....\$1352.54

The curbs and gutters built under these contracts are constructed of concrete, the core mixed in a proportion of one part of cement to five parts of gravel and the facing mixed in a proportion of one part of cement to two parts of fine aggregate.

#### STORM SEWERS.

Plans and specifications were prepared for storm sewers on North State Street, from the Huron River to Huron Street; on Granger Avenue, from Golden Avenue to Olivia Avenue; on Olivia Avenue, from Granger to Wells Street; on Hill Street, from Church Street to Lincoln Avenue; on Fourteenth Street, from Washington Street to Huron Street. Bids on the above mentioned work were received by the Board of Public Works on May 19, 1920. All bids were rejected as the lowest bid was \$20,000.00 in excess of the amount available. The Board of Public Works was given authority by the Common Council to re-advertise for bids or to proceed with construction by City Force Account. Early in December we started construction of the Hill Street Storm sewer, which is completed at this time. This is a twelve inch vitrified pipe sewer. The total cost of this sewer is as follow:

1123 lin. ft. 12 in. vitrified pipe .....\$ 814.88

290 lin. ft. 10 in. vitrified pipe ..... 155.68

5-12 in. Ells ..... 14.75

4-10 in. Ells ..... 9.76

1400 Brick ..... 39.20

2000 Brick from yard ..... 40.00

5 Manhole rings and covers ..... 90.00

9 Cast Iron Inlets ..... 256.00

Labor ..... 1249.21

Supervision by St. Commissioner ..... 102.00

Engineering & Supervision by City Engineer 96.77

Supplies, sharpening picks, etc. .... 14.50

Cement & Lime ..... 26.70

Total cost .....\$2909.45

Bid price .....\$5382.80



Actual cost ..... 2909.45

Saving over bid price .....\$2473.35

**FOURTEENTH STREET STORM SEWER, FROM WASHINGTON STREET TO HILL STREET:** Plans and specifications were prepared and submitted and approved by the Board of Public Works and the Common Council on June 7, 1920. Bids were received and the contract awarded to Wm. Eddy & Son, on June 21, 1920. The total cost of this sewer is as follows:

Contract cost .....\$879.28

Engineering and Inspection ..... 47.61

Total cost .....\$926.89

This is a twelve inch vitrified pipe sewer .

**STORM SEWER MAINTENANCE:** This department has spent, during the year of 1920, for maintenance and cleaning of storm sewers, \$812.54; of this amount, \$537.74 is for labor, and \$274.80 for materials.

**FIVE PERCENT RETAINED:** The five per cents (5 per cents) retained on storm sewers completed during the year of 1919 and paid during the year 1920, are listed below:

Location	Amt. paid	Contractor
Jackson Ave. Huron St. to City Limits . . . .	\$187.23	Wm. Eddy & Son
Catherine St., Main St. to Fifth Ave. . . . .	108.55	Wm. Eddy & Son
Detroit St. Kingsley St. to Fifth Ave. . . . .	79.66	Wm. Eddy & Son
Broadway, Huron River to Swift Street. . . .	48.72	Wm. Eddy & Son
S. Univ. Ave., Linden St. to Oxford Road. . .	59.90	Wm. Eddy & Son
Hill St., Church Street to E. Univ. Ave. . .	38.36	Wm. Eddy & Son

**SUMMARY:** A summary of storm sewers completed during 1920, and a summary of all storm sewers will be found on the following pages.

SUMMARY OF STORM SEWERS BUILT IN 1920.

Street and Limits.	Length of Main.	Length of Inlet Con's.	Inlets			Manholes	Total Cost.	Amount of Contract.	5% Retained on Contract.	When Due.	Contractors.
			Regular	Alley	Special						
Fourteenth st., Huron to Washington..	268	24	2	0	0	1	\$926.89	\$879.28	43.96	1921-8-19	Wm. Eddy & Son
Hill st., Church to Lincoln .....							Not Completed				City Force Acct.
Alley Block 3 S., R. 3 E.....	130		0	3	0	3	489.36				City Force Acct.
<b>Totals .....</b>	<b>398</b>	<b>24</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>4</b>	<b>\$1416.25</b>	<b>\$879.28</b>	<b>43.96</b>		

## SANITARY SEWERS.

DISTRICT NO. 89, JONES STREET, FROM BROADWAY TO MILL STREET AND MILL STREET NORTH 550 ft. This is an eight inch vitrified pipe sewer. The contract was awarded to Wm. Eddy and Son in 1919. Due to the scarcity of labor and the difficulty in getting materials this was not completed until this year. The total cost of this sewer is as follows:

Contract cost .....	\$1183.60
Engineering and Inspection .....	49.40

Total cost .....	\$1233.00
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This total cost has been distributed between the city and the property owners as follows:

City share .....	\$349.28
Property share.....	883.72

DISTRICT NO. 90, BERKSHIRE ROAD, FROM WASHTENAW TO CITY LIMITS AND ORCHARD STREET, FROM BERKSHIRE ROAD TO WAYNE STREET. This is an eight inch vitrified pipe sewer. The contract was awarded to Wm. Eddy and son in 1919. Due to scarcity of labor and the difficulty in getting materials this was not completed until 1920. The total cost of this sewer is as follows:

Contract cost .....	\$2436.20
Engineering and contingencies .....	97.89

Total cost .....	\$2534.09
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This total cost has been distributed between the city and the property owners as follows:

City share .....	\$ 176.55
Property share .....	2357.54

DISTRICT NO. 91, HOOVER AVE., ANN ARBOR RAILROAD TO GREENE STREET. This is an eight inch vitrified pipe sewer. The contract was awarded to Wm. Eddy and Son in 1919, but the sewer was not completed until 1920. The total cost of this sewer is as follows,

Contract cost .....	\$669.14
Engineering and contingencies .....	42.11

Total cost .....	\$711.25
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This total cost has been distributed between the city and the property owners as follows:

City share .....	\$341.00
Property share .....	370.25

DISTRICT NO. 94, BOULEVARD DRIVE, FROM STATE STREET, WEST TO COOK SPRING COMPANY: This is an eight inch vitrified pipe sewer and was constructed by City Force Account with a total cost of \$2215.81. The distribution of the cost between the city and the property owners has not, as yet, been determined by the Common Council.

DISTRICT NO. 92, EDWARD STREET, FROM SUMMIT STREET, NORTH: This is an eight inch vitrified pipe sewer. The contract was awarded to Wm. Eddy and Son in 1919, and the sewer was completed in 1920. The total cost of this sewer is as follows:

Contract cost .....	\$474.08
Engineering and Contingencies .....	52.29

Total cost .....	\$526.37
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This total cost has been distributed between the city and the property owners as follows:

City share .....	\$ 59.32
Property share .....	467.05

DISTRICT NO. 95, PAULINE BOULEVARD; DISTRICT NO 96, SOUTH FIFTH AVENUE, FROM MADISON STREET SOUTH, TO JOHN STREET: Plans and specifications were submitted to and approved by the Board of Public Works and the Common Council on June 7, 1920. Bids were received on July 16, 1920. All bids were rejected, and the sewer was constructed by City Force Account. The total cost of each District is given as follows:

DISTRICT NO. 95.

Bid price .....\$1185.10  
 Total cost ..... 687.71

Saving over bid price .....\$ 497.39

DISTRICT NO. 96.

Bid price .....\$954.36  
 Total cost ..... 632.99

Saving over bid price .....\$321.37

DISTRICT NO. 97, DAY STREET, FROM CAMBRIDGE ROAD TO WAYNE STREET: Plans and specifications were prepared and submitted to and approved by the Board of Public Works on June 23, 1920, and the Common Council on July 5, 1920. Bids were ordered received on July 5, 1920. No bids were received and the Board of Public Works was ordered to proceed with construction by City Force Account. The cost of this sewer has been as follows:

Estimated price .....\$2161.78  
 Total cost ..... 1609.73  
 Saving over estimate .....\$ 552.05

SANITARY SEWER MAINTENANCE: The care and maintenance of existing sanitary sewers during the year of 1920, has cost \$1932.04; of this amount, \$1513.61 is for labor, and \$496.87 for materials. The work done under the maintenance of sanitary sewers has consisted of building new manholes and removing obstructions.

TAPPING SANITARY SEWERS: According to your ruling made July, 1914, all tapping of sanitary sewers has been done by a City employee. The cost of such work during the year of 1920, has been \$11.87.

PAYMENTS OF FIVE PERCENT RETAINED: The following, is a tabulated list of the amounts paid to the contractors during the year of 1920 on work completed in 1919. The amount is five-per-cent of the contract cost, which was retained for one year.

DIST. No. 88

Location	Amt. paid	Contractor
Jackson Ave., Huron St., to City Limits....	\$113.38	Wm. Eddy & Son

DIST. NO. 93.

Seventh St., Huron St. to Washington St...	14.26	Wm. Eddy & Son
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SUMMARY OF SANITARY SEWER DISTRICTS: A tabulated summary of the sanitary sewer districts Nos. 89, 90, 91, 92, 94, 95, 96, 97,, is given on the following pages, with all information in regard to same.

SUMMARY OF SANITARY

Streets and Limits.	District	No. of house Connections	Total length house conn.	Length Main	Manholes
Jones and Mill St., Broadway West.....	89	7	530	2	
Berkshire Rd. and Orchard St., Washtenaw East .....	90	20	880	4	
East Hoover Ave., A. A. R. R. West.....	51	10	355	1	
Edward St., Summit St. North.....	92	5	240	2	
Boulevard Drive, State St. West.....	94	1	1017	5	
Pauline Boulevard, Main St. West.....	95	8	216	1	
Fifth Ave., Madison St. South.....	96	1	250	3	
Day St., Berkshire to Wayne.....	97	1	556	4	
Totals .....		53	4028	22	

SUMMARY OF SEWERS AND PAVEMENTS: The total cost of sewers and pavements built up to, and including 1920, is divided as follows:

Pavements .....\$560,030.61  
 Sanitary sewers ..... 273,548.21

Storm sewers ..... 149,307.60

Total .....\$982,886.42

The total cost of new pavements and sewers completed in Ann Arbor to date, is listed below, according to the year of completion:

Prior to 1900.....	\$176,616.21
1900 .....	28,372.81
1901 .....	3,704.93
1902 .....	36,850.85
1903 .....	34,229.39
1904 .....	5,024.40
1905 .....	18,744.79
1906 .....	12,986.96
1907 .....	34,931.94
1908 .....	10,498.40
1909 .....	11,867.30
1910 .....	24,166.12
1911 .....	82,549.47
1912 .....	20,022.31
1913 .....	54,369.77
1914 .....	51,218.16
1915 .....	51,163.83
1916 .....	57,588.48
1917 .....	58,919.23
1918 .....	13,123.18
1919 .....	58,498.90
1920 .....	137,447.99

Total .....\$982,886.42

The total cost of repaving streets is divided as follows, according to the year of completion:

1914, State Street, William to Liberty.....	\$ 4,572.98
1916, Liberty Street, Fourth Avenue to Fifth Avenue .....	5,104.62
1917, East Huron Street, Fourth Ave. to Fifth Avenue .....	7,812.93
1918, North Division Street, Kingsley to Lawrence, and Catherine to Ann Street..	3720.47

Total .....\$21,211.00

There are sixteen miles of paved streets in Ann Arbor, which is

#### MES ERS BUILT IN 1920

Flush tanks	Light holes	Total Cost	City to pay	Property to pay	Amount of Contract	5% retained On Contract	When due	Contractor
1 0	\$ 1233.00	\$ 49.28	\$1183.72	\$1183.60	\$ 59.18	1921-8-19	Wm. Eddy & Son	
1 0	2534.09	176.55	2357.54	2436.20	121.81	1921-8-19	Wm. Eddy & Son	
1 0	711.25	341.60	370.25	669.14	33.14	1921-8-19	Wm. Eddy & Son	
0 0	526.37	59.32	467.05	474.08	23.70	1921-8-19	Wm. Eddy & Son	
0 0	2215.81						City Force Acct.	
0 0	687.71	0.00	687.71				City Force Acct.	
0 0	632.99	104.69	528.30				City Force Acct.	
0 0	1609.73	608.40	1001.33				City Force Acct.	
3 0	\$10150.95	\$1339.24	\$6595.90	\$4763.02	\$237.83			

23.6 percent of the total streets.

#### OTHER PUBLIC IMPROVEMENTS.

**MUNICIPAL GARAGE:** Plans and specifications were prepared for a Municipal Garage, to be built in the rear of the Fire Station. The estimated cost was \$5,896.55. Bids were received on April 7, 1920. The

only bid received was from the John Koch Co., which was \$6,687.00. This bid was irregular and was rejected by the Board of Public Works. Construction of the Garage was postponed until 1921.

**CITY COAL AND CEMENT SHED:** Plans and specification, for a City Coal and Cement Shed, were prepared. This is a concrete building having two rooms, one for coal and one for cement. The building was constructed under the direction of the Street Commissioner. This department spent \$82.12 preparing plans and specifications and staking out the building.

**AUTOMOBILES:** A new Dodge Commercial car was purchased for this Department, April 1, 1920. The total cost for running two cars was \$448.90, this includes gasoline, oil, repairs and maintenance. It is interesting to note that the total cost of running two cars, this year, is \$102.28 less than the cost of running one car in 1919. The Dodge car was run 4800 miles and used 430 gals of gasoline and 32 quarts of oil. This gives 12 miles per gallons of gasoline and 150 miles per quart of oil.

I would recommend that the Ford runabout be traded in on a new car. I find that we can carry on our work more efficiently with two cars than with one.

**TOTAL EXPENDITURES:** The total amount of expenditures for labor was \$12,314.16, for office supplies, automobile supplies, repairs and maintenance of new Dodge car was \$2,698.59, less labor for which money was raised in special funds, \$3,486.16, leaving a balance of \$11,526.59, which is the total amount of expenditures.

#### SUMMARY OF MONTHLY LABOR REPORTS

1. Accounts .....	\$ 53.73
2. Records .....	1638.87
3. Correspondence .....	121.46
4. Reports, monthly and annual .....	135.59
5. Council, Board and Committee meetings .....	182.60
6. Inspecting plumbing and laying tile .....	50.09
7. Numbering houses .....	8.50
8. Information given to the public .....	335.98
9. Information received from others for City .....	34.27
10. Sanitary sewer maintenance .....	1516.21
11. Storm sewer maintenance .....	537.74
12. Engineer's Office, cleaning and arranging .....	25.96
13. City yards and shed, cleaning and arranging and improvements .....	8.43
17. Equipment, surveying .....	.45
18. Bids, quotations and discount on material for general purposes .....	14.32
19. Work for Water Department .....	23.85
20. Work for Park Department .....	5.42
21. Fairview Cemetery .....	213.23
22. Sidewalk grades .....	395.55
23. Curb grades .....	119.39
24. Street lines and grades .....	515.52
25. Preliminary estimates .....	10.44
57. * Claims .....	7.41
58. Tapping sanitary sewers .....	11.87
59. Sickness and vacations .....	459.15
60. Ford Automobile .....	30.66
60A Dodge Automobile .....	12.77
65. Bridge and viaduct maintenance .....	84.80
66. Directing the work of the Department .....	557.95
67. Oiling roadways .....	179.85
92. Work for Street Department .....	27.95
100. Assessor's Plats for city .....	1171.04
101. Work for Police Department .....	60.57
113. South University Avenue pavement .....	164.97
120. East Huron Street repaving .....	.41
130. Sanitary sewer on Berkshire Road & Orchard St....	70.28
131. Municipal Garage .....	153.04
133. East Hoover Avenue sanitary sewer .....	25.11

144.	Voting booths for 2nd precinct of 7th ward and for 6th ward .....	2.21
146.	Catherine, Fourth Ave., and Detroit St. Pavement ....	228.59
150.	Detroit Street pavement .....	127.12
157.	Housing code .....	150.52
160.	East University Avenue pavement .....	359.26
161.	Jones and Mill Street sanitary sewer .....	8.88
162.	Edward Street sanitary sewer .....	45.03
165.	Boulevard Drive sanitary sewer .....	168.24
167.	Sanitary and Storm sewer survey .....	44.23
168.	Repaving W. Huron Street, from Ashley to Main.....	24.88
169.	City coal and cement shed .....	82.12
170.	State Street storm sewer .....	22.95
171.	Hill Street storm sewer .....	158.72
172.	Packard Street storm sewer .....	19.30
173.	North Main Street sanitary sewer .....	7.92
174.	Granger and Olivia Avenues storm sewer and deepening Golden Avenue ditch .....	19.08
175.	South Fifth Avenue sanitary sewer .....	140.38
176.	East University Avenue curb and gutter .....	58.08
177.	Hill Street curb and gutter .....	141.93
178.	Cambridge Road curb and gutter .....	137.72
179.	Martin Place curb and gutter .....	44.57
180.	Fourteenth Street storm sewer.....	53.37
181.	Hill Street curb and gutter, Lincoln to Washtenaw Avenue .....	95.04
182.	Forest Avenue curb and gutter, Willard Street to Hill Street .....	69.06
183.	Forest Avenue curb and gutter, S. University to Willard Street .....	57.60
184.	Pauline Boulevard sanitary sewer .....	160.56
185.	Paving Alley in Blk. 3S, R3E. ....	308.04
186.	Installation of toilet room in alcove of Board of Public Works room .....	3.41
187.	Day Street sanitary sewer.....	567.16
189.	Hill Street pavement .....	7.31
190.	Monroe Street pavement .....	8.13
192.	Beakes Street storm sewer .....	17.88
193.	Paving Alley in Blk 3N, R4E .....	4.83
194.	Sixth Street curb and gutter .....	1.80
195.	Ferdon Road curb and gutter .....	2.61
196.	E. University Avenue curb and gutter, Hill Street to Wells Street ... ..	8.06
197.	Lincoln Avenue curb and gutter .....	5.64
198.	Boulevard Lighting system .....	2.62
	<b>Total .....</b>	<b>\$12330.23</b>
	Credit check from Wm. Eddy & Son .....	15.57
		<b>\$12314.66</b>

## SUMMARY OF EXPENDITURES FOR LABOR DURING 1920

	Engi- neering	Cler- ical	Inspection	Sewer Work	Totals
G. H. Sandenburgh .....	\$2533.64			\$266.36	\$2800.00
H. C. Worfel .....	139.51			10.49	150.00
H. R. Scovill .....	1757.48			209.12	1966.60
V. W. McAdam .....	1240.93		474.77	6.80	1722.50
J. Lohrke .....	691.66			708.34	1400.00
H. M. Woodward .....		632.31			632.31
Ruth Allmand .....		30.00			30.00
H. E. Disderide .....		345.60			345.60
V. B. Steinbaugh .....	483.58		18.30		501.88
Wm. Neithammer .....	366.00			.50	366.50
E. D. Rentschler .....	271.00			.50	271.50

Eugene Harbeck .....	76.20				76.20
G. W. Francis .....	9.25				9.25
Herbert Hicks .....	20.60				20.60
F. M. Miller .....	67.25				67.25
R. Paquette .....	15.50				15.50
C. Kumeroi .....	11.70				11.70
R. B. Taylor .....	69.38				69.38
C. Garlock .....	14.10				14.10
T. Donahue .....	19.00				19.00
R. Housel .....	6.00				6.00
B. F. Adams .....	52.20				52.20
W. S. Morehouse .....	10.75				10.75
B. H. Shirk .....	20.25				20.25
Gordon Ferguson .....	20.25				20.25
B. F. Stark .....	35.33				35.33
W. P. Lyons .....	5.50				5.50
St. Comm. Roll .....	830.64			859.44	1690.08
Totals	\$8767.70	1007.91	493.07	2061.55	12330.23
Credit, check from Wm. Eddy & Son .....	\$ 15.57				15.57
	\$8752.13				\$12314.66

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**SUMMARY OF COST OF ALL PUBLIC IMPROVEMENTS CONSTRUCTED UNDER THE SUPERVISION OF THE BOARD OF PUBLIC WORKS.**

Contract	Contractor	Cost of Improvement	Engineering & Inspection	Paid to Contractor	Amount Retained
Hill St. storm sewer.....	City force account...\$	2,909.45	\$198.77	.....	.....
State St. storm sewer.....	Not constructed .....	.....	23.05	.....	.....
Packard St. storm sewer.....	Not constructed .....	.....	19.40	.....	.....
Granger and Olivia storm sewer..	Not constructed .....	.....	19.08	.....	.....
Alley, B3S, R3E, storm sewer....	City force account...\$	489.36	40.22	.....	.....
Fourteenth St. storm sewer.....	Wm. Eddy & Son....	926.89	47.61	\$835.32	\$43.96
So. Fifth Av. sanitary sewer.....	City force account...\$	632.99	45.79	.....	.....
Pauline Blvd. sanitary sewer.....	City force account...\$	687.71	29.02	.....	.....
Day St. sanitary sewer.....	City force account...\$	1,609.73	82.72	.....	.....
Boulevard Drive sanitary sewer...	City force account...\$	2,215.81	168.47	.....	.....
E. Hoover Av. sanitary sewer....	Wm. Eddy & Son....	711.25	42.11	635.69	33.45
Berkshire and Orchard St. sanitary sewer .....	Wm. Eddy & Son....	2,534.09	97.89	2,314.39	121.81
N. Main St. sanitary sewer.....	Not constructed .....	.....	8.08	.....	.....
Edward St. sanitary sewer.....	Wm. Eddy & Son....	526.37	52.29	450.38	23.70
Jones and Mill St. sanitary sewer..	Wm. Eddy & Son....	1,233.00	49.40	1,124.42	59.18
W. Huron repaving .....	Not constructed .....	.....	24.88	.....	.....
E. Univ. Av. pavement .....	Letchfield & Stewart.	28,928.46	791.97	27,886.49	250.00
S. Univ. Av. pavement.....	Letchfield & Stewart.	39,182.84	1,500.00	37,182.06	500.00
Detroit St. pavement .....	Wm. J. Clancy .....	31,350.03	937.90	30,412.13	.....
Cath., 4th Av. and Det. pavement.	Wm. J. Clancy.....	26,419.46	897.25	25,522.21	.....
Alley, B3S, R3E, pavement.....	City force account...\$	1,506.23	93.74	.....	.....
E. Univ. Av., curb and gutter....	A. F. Thompson.....	1,481.88	58.08	1,423.80	.....
Martin Pl., curb and gutter.....	A. F. Thompson.....	1,244.72	48.32	1,196.40	.....
Cambridge Rd., curb and gutter..	Thos. Hession .....	1,841.37	146.97	1,694.40	.....
Forest Ave., S. Univ. to Wil., curb and gutter .....	Thos. Hession .....	1,080.00	57.60	1,022.40	.....
Forest Av., Wil. to Hill St., curb and gutter .....	Thos. Hession .....	1,416.16	74.56	1,341.60	.....
Hill St., Lin. to Wash., cb. & gut.	Thos. Hession .....	1,417.50	121.50	1,034.64	261.36
Hill St., Oswego to Berk., cb. & gut.	A. F. Thompson.....	2,217.14	169.94	1,182.60	864.60
Installation of toilet room.....	Hutzel & Co., plumb. ....	.....	.....	.....	.....
City Coal & Cement shed.....	Koernke, carpenter .	519.29	3.41	515.88	.....
Bldg. lighting system .....	City force account...\$	1,386.52	302.12	.....	.....
	E. Oesterlin & Wm. Libold .	269.62	2.62	.....	267.00
	<b>Totals .</b>	<b>\$154,737.87</b>	<b>\$6,155.54</b>	<b>\$135,777.81</b>	<b>\$2,425.06</b>

SUMMARY OF EXPENDITURES FOR OFFICE  
EQUIPMENT AND SUPPLIES

6.	Inspection of plumbing .....	\$	1.75
8.	Information to the public .....		.25
10.	Sanitary sewer construction, supplies, etc. ....		429.66
11.	Storm sewer construction, supplies, etc. ....		274.80
14.	Supplies for Engineer's office .....		255.06
15.	Equipment for Engineer's office .....		3.55
16.	Surveying supplies .....		4.75
17.	Surveying equipment .....		63.89
22.	Sidewalk grades .....		2.00
24.	Street lines and grades .....		69.95
25.	Preliminary estimates .....		.48
60.	Automobile, Ford; Repairs, etc. ....	\$132.42	
	Gasoline and Oil .....	90.00	222.42
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60.A	Automobile, Dodge: Dodge car .....	\$1125.00	
	Repairing, etc .....	86.48	
	Gasoline and Oil .....	140.00	1351.48
65.	Bridge and Viaduct maintenance .....		7.45
100.	Assessor's Plats for City .....		2.65
157.	Housing code .....		8.45
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	Total .....		\$2698.59

SUMMARY OF EXPENDITURES FOR CONSTRUCTION,  
EQUIPMENT AND SUPPLIES

165.	Boulevard Drive sanitary sewer .....	\$	652.83
170.	State Street Storm sewer .....		.10
171.	Hill Street storm sewer .....		847.45
172.	Packard Street storm sewer .....		.10
173.	North Main Street sanitary sewer .....		.10
175.	South Fifth Avenue sanitary sewer .....		213.48
177.	Hill Street curb and gutter .....		13.00
178.	Cambridge Road curb and gutter .....		9.25
179.	Martin Place curb and gutter .....		3.75
181.	Hill Street curb and gutter .....		11.50
182.	Forest Avenue curb and gutter .....		5.50
184.	Pauline Boulevard sanitary sewer .....		136.80
187.	Day Street sanitary sewer .....		403.56
188.	Storm sewer Alley Blk. 3S, R3E .....		219.06
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	Total .....		\$2516.48

ENGINEER'S OFFICE: The amount chargeable to your Engineer's office, including all equipment, supplies and all the time devoted to running the office by myself and employees, has been distributed as follows:

1.	Office accounts .....	\$	53.73
2.	Office records .....		1638.87
3.	Office correspondence .....		121.46
4.	Reports, monthly and annual .....		135.59
5.	Council, Board and Committee meetings .....		182.60
6.	Inspecting plumbing and laying tile .....		51.84
7.	Numbering houses .....		8.50
8.	Information to the public .....		336.23
9.	Information received from others for City .....		34.27
12.	Engineer's office cleaning and arranging .....		25.96
13.	Cleaning, arranging and improvements to City Yards...		8.43
14.	Office supplies .....		255.06
15.	Office equipment .....		3.55
16.	Surveying supplies .....		4.75
17.	Surveying equipment .....		63.89
59.	Sickness and vacations .....		459.15
66.	Directing the work of the Department .....		557.95
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	Total .....		\$3941.83

**ANNUAL REPORT, STREET COMMISSIONER, 1920.**

Ann Arbor, Mich., Jan. 6, 1921.

Hon. Board of Public Works, Joseph L. Arnet, President: Gentlemen—I herewith present the annual report of the Street Department for the year ending December, 1920, including care of streets and sidewalks, building and repairs sidewalk extensions, crosswalks, inlets, etc., city paving work and gravel, cement and other materials used:

**STREET WORK—**

Cleaning paved streets, labor teams and driver motor sweeper, .....	\$6,356.82
City team, 221 days at \$8.06....	1,781.26
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	\$8,138.08
Gasoline for motor sweeper....	\$ 469.08
Repairs m. sweeper, (city labor)	128.73
Repair m. sweeper, shop work and materials .....	61.09
Paint .....	4.90
Repairs and parts m. sweeper from factory..	\$193.38
Express charges .....	11.47
Asceteline gas tanks .....	6.00
Tires and setting, motor sweeper .....	175.80
Cleaning and laying up m. sweeper .....	41.90
Lubricating oil and grease, m. sweeper .....	110.51
Water, m. sweeper, 148,500 gal. at 0.12 .....	17.76
Material for brooms, M. Sweper, bamboo .....	\$ 60.48
hickory .....	157.37
Freight .....	19.01
Labor making brooms, M. sweeper .....	302.11
Hand brooms .....	\$55.35
Express .....	3.15
Repairs stand pipes (water for motor sweeper), labor and material .....	34.41
Repairs horse sweeper .....	1.10
	<hr/>
	\$9,991.68
Average cleaned by motor sweeper, 150,871 square yards per working day.	
Motor sweeper worked 221 days, 3½ hours during season.	
Total for season, 33,342,492 sq. yds.	
Cost of cleaning per 1,000 square yards, 0.299.	
Cleaning leaves from paved streets .....	\$ 476.22
Scraper for leaves .....	80.85
Matches for burning leaves ....	0.84
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	\$ 557.91
Taking care of snow:	
Cleaning snow from crosswalks and gutters .....	\$ 513.48
Plowing snow from sidewalks..	356.73
Hauling snow from streets ....	192.33
Plowing snow from gutters....	68.65
Repairs, snow plows .....	25.56
Hauling snow plows .....	2.22
Salt .....	12.50
Opening inlets with steam ....	114.57
Gasoline and lub. oil, tractor, on gutters .....	21.55
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	\$1,307.59

Repairs street pavements, labor..	\$633.02
Cement, 144 sacks, 36 bbls. at \$3.85 .....	138.60
Gravel, 25 loads at 50c .....	12.50
Sand, 8 loads at 50c .....	4.00
Brick, 5,320 at \$20.00 per M....	106.40
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	894.77

(Of above, work done for water department, public service corporations, etc., amounted to \$392.88.

(Bills in City Clerk's office for collection.)

Grading with scarifier and roller, including dragging and wetting roadways, labor and teams .....	\$ 837.23
Repairs scarifier, city work....	14.90
Materials and repairs .....	4.95
Express, \$1.12; telegram, 53c..	1.65
Maintenance, sharpening teeth..	63.55
Cleaning and laying up .....	40.20
Lubricating oil .....	23.13
Coal .....	242.22
Gasoline (old roller) .....	2.70
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	\$1,234.53
Cleaning gutters, dirt street, including leaves from gutters in fall .....	4,949.68
Mowing weeds from streets and lawn extensions .....	597.95
Scythes, etc. ....	18.15
	<hr/>
	\$ 616.10
Grading streets with tractor, grader and street drags, labor and teams .....	1,093.00
Gasoline (tractor) .....	319.59
Lubricating oil .....	51.42
Repairs tractor (city work) ....	7.00
Repairs grader (city work)....	10.25
Repairs tractor, shop work and materials .....	50.62
New draw bar, etc., and seat....	28.00
Repairs, grader blades .....	2.50
Supplies, grader blades..	\$26.50
Express .....	2.85
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	29.53
A. A. Garage, labor driver..	63.56
Spark plugs .....	11.00
Repairs and adjusting ....	17.23
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	\$1,663.52
Grading, graveling and patching dirt streets .....	4,181.38
1,274 loads of gravel.....	868.35
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	\$5,049.73
Detailed account of gravel:	
84 loads loads at 40c.....	\$33.60
316 loads at 25c.....	\$ 79.00
619 loads at 50c ..	309.50
255 yds. (delivered) at \$1.75 .....	446.25
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	1,274 loads .....
	\$868.35
Tarring concrete, brick and block pavements, (including patching and filling holes, brick and block streets, sweeping, sanding, and unloading torpedo sand, slag, etc.).....	\$1,924.32
20 224 gals, Tarvia .....	2,224.64
1,207 gals, Tarvia, K. P. & X. C. grades .....	245.47
Freight .....	170.28

Lub. oil and grease .....	1.25
Creosote for distributor, \$35.00; freight, \$2.72 .....	37.72
Current for tar tank pump....	4.13
Connecting tank, etc. ....	6.11
Coal, heating boiler for tanks..	27.17
Telephone, 70c. repair boiler, \$1.15 .....	1.85
637 tons torpedo sand (bird's-I gravel), 14 car loads..\$637.75 (Approx. 552 wagon loads)	
Freight .....	278.70
197.9 tons slag .....	\$249.88
Freight .....	165.61
Repairs and painting dis- tributor wagon .....	\$57.40
Paint .....	8.40
Repairs tar tank motor .....	5.06
Repairs sprinkler or distrib- utor .....	12.17
Repairs tar kettle .....	1.25
	<u>\$6,059.66</u>
(Of the preceding total cost tarring, labor and teams \$1,001.20; materials, tarvia, sand and slag, \$1,311.04; total, \$2,312.24; used in top dressing Main, Catherine to William and Washington, Fifth ave. to Ashley st., 14,537 square yards; cost per square yard 0.159.)	
Yardage streets covered with tarvia and bird's-I gravel only, 50,331.	
Total yardage covered, 64,868.	
Grading or graveling street spe- cially ordered:	
Graveling, labor, trucks and teams, Forest, S. University to Hill; E. University, Hill to Oakland; Cambridge road, Lincoln to Baldwin; Martin place .....	\$ 913.06
Gravel, 484 yards at 40c.....	193.60
	<u>\$1,106.66</u>
Sprinkling streets (by order of Council) .....	9.00
Setting street and traffic signs, .....	\$4.10
Painting signs .....	2.50
Posting election notices ..	2.78
	<u>9.38</u>
Applying dust laying material (oil or calcium chloride):	
Applying material, labor, oiler, spreader and trucks .....	\$ 931.88
169.05 tons calcium chol- ride .....	\$6,161.40
Unloading .....	46.38
Freight .....	289.22
	<u>6,497.00</u>
Gloves for men, \$8.85; tele- phone, 70c .....	9.55
Repairs, oiler (city work)....	4.43
Repairs spreader, labor and materials .....	17.51
Repairs spreader, city work..	5.20
	<u>\$7,465.57</u>
Amount paid to city treasurer for dust laying .....	\$4,949.35
Returned to property owners, city unable to get material..	1,820.65
Balance .....	<u>\$3,128.70</u>

Cal. Chloride sold, \$10.12; cans sold, \$22.50.....	\$ 32.60
Cal. Chlor. returned to mfr., (got in 1919)....	420.00
	<u>452.62</u>
Total city credit on dust lay- ing .....	<u>\$3,581.32</u>
Balance, cost city .....	\$3,884.25
(City to pay by ordinance 40% of cost, or \$2,986.23.)	
Number of streets or parts of parts of streets petitioned for, 94.	
Number of petitions not carried out by reason of lack of material, money re- turned to petitioners, 38.	
Number of streets or parts of streets done, 36.	
Total, Street Work .....	<u>\$37,334.46</u>
<b>CULVERTS—</b>	
Repairs Culverts:	
W. Washington .....	\$1.30
Chapin-Third st. ....	5.20
Broadway .....	4.50
	<u>\$ 11.00</u>
Retaining wall and repairs cul- vert, Sixth st., north of Lib- erty st., labor .....	127.76
Cement, 86 sacks, 215 bbl. at \$3.85 .....	82.78
Gravel, 18 loads at 50c .....	9.00
Railings .....	36.10
	<u>\$ 255.64</u>
Total Culvert work .....	<u>\$ 266.64</u>
<b>SIDEWALKS—</b>	
Grading for sidewalks (includ- ing lawn extensions and work done for park board filling back of new curbing) .....	\$ 637.91
Sidewalks built for city under contract:	
For property owners (by A. F. Thompson):	
Pieces, 28; lineal ft., 1,608.25; square ft., 8,786.12.....	1,793.39
For city (by A. F. Thompson):	
Piece, 1; lineal ft., 10; square feet, 50 .....	10.00
(2 blocks cement Forest south of S. University, to replace sidewalk broken during S. University ave. paving)	
For property owners (by Thomas Hession):	
Pieces, 20; lineal ft., 1,264.01; square ft., 6,571.46.....	1,386.49
Other sidewalk work (done by city labor):	
Raising and repairs sidewalk front city yard, 4th ave., be- tween Summit and Depot streets):	
106 lineal ft.; 530 square ft.; labor .....	\$51.88
8 sacks cement, 2 bbls. at \$3.85 .....	7.70
2 loads gravel at 50c.....	1.00
	<u>60.58</u>
New walk front of Sixth ward ward rolls (E. University av.):	
66 lineal ft.; 330 square ft.; labor .....	\$35.00
17 sacks cement, 4.25 bbls. at \$3.85 .....	16.37

4 loads gravel at 50c.....	2.00	
		54.27
Sidewalk work done by city:		
Pieces, 2; lineal ft., 172;		
square ft., 860; cost .....		114.85
(Sidewalk built by city work, east side Liberty st. between First st. and Ann Arbor R. R., included with paving, curbing, etc. at that point).		
Total Sidewalk work .....	\$3,942.34	
<b>SIDEWALK EXTENSIONS, CROSS-</b> <b>WALKS, ETC.—</b>		
Building sidewalk extensions, crosswalks, cement culverts at street intersections, etc., labor	\$2,461.19	
Cement, 915 sacks, 228.75 bbls. at \$3.85 .....	880.69	
Gravel, 187 loads at 50c.....	93.50	
Sand, 5 loads at 50c .....	2.50	
Filler, 3 loads at 25c.....	.75	
Supplies .....	4.90	
Brick, 3,130 at \$20.00 per M...	62.60	
Tile .....	31.30	
Lumber .....	89.31	
Irons for cement culverts .....	27.00	
		\$3,653.74
Sidewalk extensions built by contract:		
(By A. F. Thompson):		
Pieces, 4; lineal ft., 24.5 square ft., 122.5 .....	\$ 24.50	
(By Thos. Hession):		
Pieces, 4; lineal ft., 27.8; sq. ft. 154.55 .....	28.89	
(By J. Koch Co., (Incorp.):		
Piece, 1; lineal ft., 20.95; square ft. 100.3.....	20.06	
(Total sidewalk extensions, crosswalks, etc. ....	\$3,727.19)	
Cleaning crosswalks .....	35.65	
Unloading cars cement .....	63.77	
Handling empty cement sacks .....	\$7.98	
Freight on sacks returned .....	3.88	
		11.86
Repairs railing Broadway near M. C. R. R. crossing.....	4.10	
Total Extensions, Crosswalks, etc. ....	\$3,842.57	
<b>INLETS, SEWERS, ETC.—</b>		
Repairs and cleaning inlets, gutter boxes, etc., and repairs storm water sewers, labor..\$	211.90	
Tile, \$2.00; brick \$2.00.....	4.00	
Unloading car tile .....	14.38	
Laying storm water sewers:		
North Main st., near cuvert .....	\$50.05	
Packard east of Granger 21.60		
Tile .....	44.10	
		115.75
Boulevard Drive sanitary sewer, (completion, begun in 1919), labor account .....	\$ 619.09	
(Amount transferred back to Street fund from bond issue for sewer.)		
Cement on all storm sewer and inlet work, 53 sks., 13.25 bbls. at \$3.85 .....	51.02	
Sanitary sewers built, labor ac-		

count only—	
No. 96, 5th ave., Madison- John st. ....	275.45
No. 95, Pauline boulevard .....	390.35
No. 97, Day st. ....	639.00
	\$1,304.86
(Above amounts transeferred back to Street fund from bond issues for sewers.)	
Storm water sewer Hill st., Forest to Lincoln, labor ac- count (not completed Jan. 1, 1921) .....	759.20
Supplies, lime, etc. ....	8.50
	\$ 767.70
(Charged to Bridge, Culvert and Crosswalks fund.)	
Total Inlets, Storm Sewers, etc. ....	\$3,088.70
<b>PAVING—</b>	
Paving alley B7S-R3E, from Liberty st. south, between Main and Ashley st., labor..\$	654.53
Cement, 640 sacks, 160 bbls. at at \$3.89 .....	622.40
Gravel, 99 loads, at 50c.....	49.50
Tarvia, filling joints .....	10.50
Materials and supplies .....	10.70
Gasoline, 15 gal. at 0.305.....	4.58
Lumber, templates, etc. ....	60.28
Superintedance, Street Com- missioner .....	56.00
Engineering .....	37.74
	\$1,506.23
Extension of paving northwest corner of Liberty and First st. (including sidewalk, abut- ment, sidewalk extensions, curb, and extending pave- ment north to curb).....	219.05
Cement 149 sacks, 37.25 bbls. at \$3.85 .....	143.42
Tile .....	11.80
Gravel, 24 loads at 50c .....	12.00
Railing for abutment .....	23.71
	\$ 409.98
Total Paving .....	\$1,916.21
<b>MISCELLANEOUS WORK AND RE-</b> <b>PAIRS—</b>	
Unloading and setting up scari- fier and roller received in ex- change .....	\$ 20.80
Loading old scarifier and roller returned .....	5.93
	\$ 26.73
Taking ashes from city hall basement .....	6.06
Repairs lanterns .....	3.60
Repairs tools and machinery ..	13.38
Repairs and painting wagons and bob sleds .....	47.53
Building cement and coal house, 4th ave. north of Depot st., labor .....	\$ 618.55
Gravel, 37 loads at 50c.....	18.50
Lime, \$20.40; brick, 5,192 at \$20 per M., \$103.84.....	124.24
Cement, 192 sacks, 48 bbls. at \$3.85 .....	184.80
Lumber .....	228.13

Nails and supplies .....	10.18
Engineering .....	82.12
Superintendance by Street Commissioner and use of tools, etc. ....	120.00
	<u>\$1,386.52</u>
Taking out trees in streets and hauling limbs, trees, etc., (for Park Department) .....	26.93
Taking care of storm water, pumping cellars .....	2.65
Piling brick at city yard .....	2.65
Repairs, cleaning, etc., polling places .....	2.90
Moving house, labor, (Paid by Col. Bursley) (labor acct. only) .....	5.20
(Total paid by Col. Bursley \$22.60.)	
Cleaning, rear city hall.....	1.11
Clearing up tools, rubbish, etc., at city yard .....	8.06
Repairs pump .....	\$1.93
Repairs oil pump .....	2.25
	<u>4.18</u>
Repairs drinking fountains, plumbing .....	\$15.75
Painting drinking fountains .....	3.00
	<u>18.75</u>
Repairs Engineer's Dept. run about( city labor) .....	51.15
Repairs roofs, sheds, city yards, labor .....	\$104.89
Materials .....	3.78
Lumber .....	51.00
	<u>159.67</u>
(Cost of roofing material in 1919 report)—	
Repairs dwelling at city yard, plumbing .....	50.51
	<u>\$1,817.17.</u>
<b>SUPPLIES, REPAIRS, ETC.—</b>	
Machinery purchased:	
Lime spreader for applying dust layer .....	\$ 120.00
Columbia special road drag and blades .....	30.00
Cleveland Tractor .....	1,575.00
	<u>\$1,725.00</u>
General bills .....	312.50
Maintenance street department runabout:	
Tires and tire repairs .....	\$ 105.94
Repairs .....	20.32
Storage .....	17.00
Gasoline .....	200.44
Lub. oil .....	10.85
Repairs, city labor .....	19.25
	<u>\$ 373.80</u>
Maintenance City team:	
Hay .....	\$ 162.10
Oats .....	284.29
Corn .....	13.40
Straw .....	27.63
Horseshoeing .....	63.75
Unloading hay .....	.75
Hauling hay .....	6.20
Veterinary .....	6.00
Supplies .....	1.50
	<u>\$ 565.62</u>

Total Supplies, etc. ....	\$2,976.92
<b>RECAPITULATION.</b>	
Street work .....	\$37,334.46
Culverts .....	266.64
Sidewalks .....	3,942.34
Sidewalk extensions, etc....	3,842.57
Inlets, storm water sewers etc. ....	3,088.70
Paving .....	1,916.21
General work and repairs....	1,817.17
Supplies, etc. ....	2,976.92
	<u>\$55,185.01</u>
Crosswalks built, brick .....	4
Crosswalks, cement concrete .....	6
Crosswalks relaid or repaired .....	18
Sidewalk extensions at street corners (built by city work) .....	125
Sidewalk extensions (built by contract) .....	9
Culverts repaired .....	4
Storm water sewers laid .....	2
Storm water sewer, Hill st. (not completed Jan. 1, 1921) .....	1
Sanitary sewers laid .....	4
Cement gutters laid .....	8
Gutter boxes built .....	4
Curbing repaired (by city work), pieces .....	1
Curbing, new (by city work)—pieces	3
Storm water culverts at street inter-sections, cement con. ....	7
(238 lineal feet)	
Storm water culverts at street inter-sections, tile .....	1
Sidewalks repaired by city work (broken by tree, etc.) .....	2
Sidewalks built by city under contract:	
For property owners, pieces.....	48
(2,872.26 lin. ft.; 15,537 sq. ft.)	
For city, pieces .....	1
(10 line ft.; 50 sq. ft.)	
Sidewalks built by city work, front city property, pieces .....	2
(172 lin. ft.; 860 sq. ft.)	
	<u>51</u>
Total sidewalks, pieces .....	51
(3,054.26 lin. ft. 16,267.58 sq. ft. 0.58-100 of a mile.)	
Paving, alley .....	1
(513 square yards.)	
Paving, extension First and Liberty .....	1
(51.5 square yards.)	
	<u>564.5</u>
Total square yards paving.....	564.5
Notices served:	
To repair sidewalks .....	85
To observe street regulations ....	3
To remove obstructions in streets, etc. ....	4
To clean off snow .....	3
To cut weeds .....	11
	<u>106</u>
<b>GRAVEL ACCOUNT—</b>	Loads.
Graveling and patching street in the several wards .....	1,274
Graveling Forest, E. University, etc. ....	484
Extension and crosswalk work....	187
Paving repairs .....	25
New paving .....	123
Cement and coal house .....	37
Sidewalks ((city work) .....	6

Culverts .....	18	Joseph L. Arnet, cement .....	30.45
Torpedo sand for tarvia .....	552	Park Dept., cement .....	1.52
Slag for tarvia .....	171	(*) Bills to City Engineer for	
		for collection from contractors	
	2,877	on submission of final esti-	
CEMENT ACCOUNT—	Bbls.	mates .....	22.53
On hand Jan. 1, 1920	1.75	Paid Thomas Hession, cement	
Bought .....	749.00	and drayage .....	620.72
		Paid A. F. Thompson, cement..	35.60
	750.75	Michigan Central R. R., repairs	
Used as follows:	Sacks.	railing, Broadway .....	4.10
New paving .....	789	Total .....	\$1,385.01
Extension and crosswalk		—(*)	
work .....	915	Eddy & Son, repairs ditch, Jones	
Paving repairs .....	144	and Mill road .....	\$ 1.65
Culverts .....	86	Eddy & Son, Jones and Mill road	4.50
City Engineer's department		Eddy & Son, repairs ditch, Berk.	4.55
repairs, etc. ....	127	A. A. Asphalt Co., cement .....	11.83
Inlets and cement sewers..	53		\$22.53
Coal and cement house....	192		
Sidewalks (city) .....	25		
Sold to contractors (by		Respectfully submitted, ALFRED J.	
order of Board of Public		PAUL Street Commissioner.	
works) .....	672	INVENTORY—	
Total used .....	3,003 sacks or	Street Department—1920:	
	750.75 bbls.	1 Cleveland Tractor .....	\$1,400.00
On hand Jan. 1, 1921.....	None	1 Calcium chloride spreader	100.00

#### OUTSIDE WORK BY STREET DEPARTMENT—

Bills against public service corporations, Water department etc.; amounts paid Commissioner for old materials; also labor done and materials sold by order of the Board of Public Works (collected or in course of collection through City Clerk's office):

Paid, junk sold by Street Commissioner .....	\$ 3.00
Paid, old lumber sold by Street Commissioner .....	5.95
Paid, old iron, sold by Street Commissioner .....	13.50
Paid, 5 sacks cement, sold by Street Commissioner .....	3.75
Paid, old cal. chlor. cans, sold by Street Commissioner ....	22.12
Paid, Detroit-Edison Co., repairs tile .....	2.40
E. F. Gallup, cement .....	2.93
Paid by D. U. R. half cost hauling snow, Main, W. Huron streets .....	52.92
Paid by D. U. R., 8 sacks cement and delivery .....	6.83
Paid by D. U. R., cement, 6 sacks .....	4.56
Park Dept., filling lawn extension back of new curbing....	123.42
Paid by Col. Bursley, moving house with steam roller .....	22.60
D. A. Killens, cutting weeds, Killen's addition .....	76.50
E. F. Staebler, paving repairs	26.19
Water Dept., paving repairs, filling holes over ditches.....	269.06
Hutzel & Co., paving repairs ..	17.40
Wm. Hochrein, filling over sewer ditch .....	.75
Washtenaw Gas Co., paving repairs .....	58.16
L. Schneider, paving repairs ..	14.82
Detroit United Ry., paving repairs .....	21.48
S. C. Andres, paving repairs ..	12.43
Jas. W. Blashell, calcium chloride .....	10.12

1 Double harness .....	20.00
1 Pair bob sleighs .....	20.00
1 Pair horse blankets .....	10.00
1 Kelly-Springfield scarifier and roller .....	4,800.00
1 Elgin motor sweeper .....	3,500.00
1 Foote cement mixer .....	600.00
1 Oiling machine .....	600.00
1 Gasoline pump .....	385.00
2 Tar and oil tanks and boiler	1,500.00
1 Ford run-about .....	150.00
1 Road scraper .....	200.00
1 Road scraper .....	75.00
1 20th Century grader .....	100.00
1 Studebaker sprinkler .....	150.00
2 Dump wagons .....	150.00
1 Platform scale .....	500.00
2 Horse drawn sweepers.....	150.00
18 Snow plows .....	80.00
2 Patent snow plows .....	40.00
1 Steel snow plow .....	20.00
1 tar tank on wheels (small)	35.00
1 large tar tank on wheels....	50.00
2 Street drags .....	20.99
1 Street drag .....	16.00
1 Motor sweeper brooms filled	66.00
3 Bdl. hickory splints .....	97.50
3 Two-wheeled carts .....	50.00
1 Tool box on wheels .....	19.00
1 Slip scraper .....	5.00
2 Slip scrapers .....	15.00
1 5-ft. Milwaukee cement mixer .....	50.00
1 Lot 1-inch pipe .....	25.00
1 Tar kettle .....	10.00
1 Two-wheeled scraper .....	20.00
1 Diaphragm pump .....	19.90
1 50 gal oil tank .....	10.00
2 Wagons .....	30.00
1 Broom filler .....	5.00
5 Wheelbarrows .....	25.00
2 Log chains .....	4.00
1 Pair stable blankets .....	2.00
3 Hammers .....	3.00
1 Stencil and alphabet .....	1.00
4 Pails .....	1.00





**SUMMARY OF CURBS AND GUTTERS IN THE CITY OF ANN ARBOR.**

Dist. No.	Street and Limits	Year Built	Length	Total Cost	Amount of Contract	Cost per Foot	Contractor
1	Lawrence St., Division St. to State St.	1919	1284.7	1000.00	963.58	.78	Thos. Hession
2	Oxford Rd., Geddes Ave. to Hill St. ....	1919	1273.8	1071.67	1019.04	.84	Thos. Hession
3	Forest Av., Willard St. to Hill St. ....	1920	1118.0	1416.16	1341.60	1.26	This. Hession
4	*Hill St., Lincoln to Washtenaw .....	1920	1080.0	1417.50	1296.00	1.31	Thos. Hession
5	Cambridge Rd, Lincoln Av. to Baldwin Av.	1920	1412	1841.37	1694.40	1.20	Thos. Hession
6	Martin Pl., Scott Alley to Wells St. ....	1920	997	1244.72	1196.40	1.24	A. F. Thompson
7	*Hill St., Oswego St. to Berkshire Rd. .	1920	1706	2217.14	2047.20	1.29	A. F. Thompson
8	East University Av., Hill to Oakland Av.	1920	1186.5	1481.88	1423.80	1.25	A. F. Thompson
9	Forest Av., S. Univ. Av. to Willard ....	1920	852	1080.00	1022.40	1.27	Thos. Hession
<b>Totals .....</b>			<b>10,910</b>	<b>\$12,770.44</b>	<b>\$12,004.42</b>		
*Not completed							

**SUMMARY OF PAVEMENTS IN THE CITY OF ANN ARBOR.**

District No.	STREET.	When laid.	No. sq. yds.	Total cost.	Total cost per sq. yd.	Cost per sq yd. pavement only	KIND.
1&2	Main . . . . .	1898	12,730	\$31,375.15	\$2.46	\$1.64	Brick on concrete.
3	Washington, Ashley to 5th Av.	1899	5,140	11,645.17	2 27	1.73	Brick on concrete.
4	Huron, Ashley to State.....	1900	10,791	27,845.38	2.58	2.17	Asphalt block on sand.
5	State, Huron to Monroe.....	1902	12,484	31,778.98	2.55	2.16	Asphalt block on sand.
6	Ann, Main to 4th Av.....	1902	1,589	2,860.70	1.30	1.39	Brick on sand.
7	Liberty, Ashley to State.....	1903	9,140	24,486.06	2.68	2.19	Asphalt block on sand.
8	Fourth Av., Huron to Liberty	1903	2,431	6,490.80	2.67	2.19	Asphalt block on hand.
9	William . . . . .	1907	7,519	19,092.01	2.54	2.03	Bithulithic.
10	N. University . . . . .	1905	5,045	10,720.16	2.03	1.63	Brick on concrete.
11	Alley . . . . .	1908	350	672.74	1.92	1.50	Brick on concrete.
12	Maynard . . . . .	1909	1,883	1,930.13	1.03	.78	Ann Arbor tar—concrete.
13	N. Fourth Av., Huron to Ann.	1910	1,159	1,351.34	1.17	.88	Ann Arbor tar—concrete.
14	E. Huron and Twelfth.....	1910	6,765	6,685.50	.99	.76	Ann Arbor tar—concrete.
15	Washington, 5th Av. to 12th..	1910	8,633	8,189.73	.95	.71	Ann Arbor tar—concrete.
16	Washtenaw Av. . . . .	1911	12,092	12,392.81	1.03	.78	Ann Arbor tar—concrete.
17	State, Packard to Arch.....	1911	2,587	2,672.49	1.03	.84	Ann Arbor tar—concrete.
18	S. Main and Packard.....	1911	20,826	23,172.05	1 11	.78	Ann Arbor tar—concrete.
19	N. Main, Catherine St. north.	1911	10,117	11,110.86	1.10	.82	Ann Arbor tar—concrete.
20	Hill and Oswego . . . . .	1913	5,682	7,726.41	1.36	.93	Ann Arbor tar—concrete.
21	Fifth Av. . . . .	1911	10,483	11,678.31	1.12	.84	Ann Arbor tar—concrete.
22	Alley . . . . .	1911	293	314.84	1.07	.84	Ann Arbor tar—concrete.
23	Alley . . . . .	1911	920	1,029.38	1.12	.77	Ann Arbor tar—concrete.
24	Arch and Thayer.....	1911	1,833	1,747.35	.95	.77	Ann Arbor tar—concrete.
25	State, Monroe to Packard....	1911	3,158	3,181.57	1.01	.78	Ann Arbor tar—concrete.
26	Mary . . . . .	1912	2,407	2,703.08	1 12	.89	Ann Arbor tar—concrete.
27	Ashley . . . . .	1912	7,711	9,071.92	1.18	.91	Ann Arbor tar—concrete.

**SUMMARY OF PAVEMENTS IN THE CITY OF ANN ARBOR.**

District No.	Street	When laid	No. sq. yds.	Total cost	Total cost per sq. yd.	Cost per sq. yd. pavement only	Kind
28	W. Lib., Ash. to city limit.....	1913	15612	26836.90	1.34	.98	Ann Arbor tar-concrete
29	W. Huron St., Ashley to Forks.	1913	14131	19257.61	1.36	1.01	Ann Arbor tar-concrete
30	Church St., Wash. to Prospect.	1914	11832	14802.93	1.25	0.98	Ann Arbor tar-concrete
31	Hill, State to Wash. Ave. ....	Not completed					
32	Ann St., Main St. to First St....	1915	2085	2740.80	1.33	1.02	Reinforced concrete
33	Jefferson, 5th Ave. to State St..	1915	4924.2	8665.40	1.62	1.30	Asphaltic concrete
34	Division, Detroit to Packard...	1915	14372.5	24733.97	1.60	1.29	Asphaltic concrete
35	Geddes Av., Oxford to Oswego...	1915	3273.0	5431.55	1.66	1.19	Reinforced concrete
36	Catherine St. and Miller Ave....	1916	9596	22629.31	2.36	1.95	Brick on concrete base
37	Alley, Blk. 2 S R 3 E.....	1918	470	839.29	1.78	1.59	
38	B'dway, Swift to M. C. Viaduct..	1919	3521	14881.66	4.23	3.55	Brick on concrete base
39	Detroit St., Catherine St. to M. C. viaduct .....119 and	1920	7278.8	31350.03	4.30	3.37	Brick on concrete
40	Catherine St., Fourth Ave. and Detroit St. ....1919 and	1920	6188	26419.46	4.26	3.37	Brick on concrete
41	Jackson Av. Forks to city limits.	1919	5982	19746.43	3.30	2.38	Asphaltic concrete
42	Thayer, Hur. to N. Univ. Ave...	1919	2528	7648.54	3.03	2.25	Asphaltic concrete
43	E. University Av., Washtenaw Av. to Hill St.....1919 and	1920	9043	28928.46	3.19	2.40	Asphaltic concrete
44	S. University Ave., State St. to Oxford Rd. ....1919 and	1920	11474	39182.84	3.41	2.40	Asphaltic concrete
45	Alley Blk. 3 S, R 3 E .....	1920	503	1506.23	3.00		Concrete
<b>Totals .....</b>			<b>286,581</b>	<b>561,536.33</b>			

Note—Cement, sand, mortar cushion used on Broadway pavement.

Note—The pavement between the rails of the street car track and for a distance of 18 in. out on either side of the track on W. Huron is of brick on concrete and is not included in the above statement.

Note.—The pavement between the rails of the street car track on Washtenaw avenue and between the rails and for a distance of 18 inches out on either side of the track on Packard and Main streets is of brick on concrete, and is not included in the above statement.

SUMMARY OF SANITARY SEWERS IN THE CITY OF ANN ARBOR

District No.	Street	Date	Total length of main	No manholes	No. flush tanks	No. light holes	8-in. tile record	10-in. tile	No. of house connections	Length of house conn.	Total cost
	Main sewer	1893									\$41252.83
1	Liberty, E. of main sewer	1894	1804	5	1	5	1804		66	998	1887.84
2	Washington, E of main sewer	1894	631	4	1	1	631		22	256	527.43
3	Hill St. district E of main sewer	1895	1370	4	2		1370		50	988	2163.46
4	Huron, E of main sewer	1895	1266	3	1		1266		35	630	1541.47
5	William, E of main sewer	1895	918	3	1		613	305	27	508	1169.51
6	Detroit	1897	1527	4	1		583	344	40	678	2083.02
7	W. Liberty, to near Seventh	1897	4204	8	7		2706	1498	137	2316	5024.40
8	E. Catherine, Division to State.	1900	1393	3	2		1393		69	1444	2322.48
9	Ann, Huron, 13th and 14th	1901									
10	Huron, 14th and Volland	1901									
11	First, Madison to Jefferson	1903									
12	W. William St.	1903									
13	Beakes, 4th, 5th., Kingsley	1904									
14	N. Main, Main sewer to Cath.	1905									
15	Cambridge, Washington, Vine-wood, Ferdon	1905	1487	4	2		1487		28	707	1735.64
16	W. Liberty extension to city l'ts	1906	1352	3	1		1352		40	726	1265.68
17	3rd William to Jefferson	1905	602	1	1		602		19	328	590.84
18	W. Huron	1906	3509	8	1		2942	567	102	2066	4111.52
19	Church	1906	444	1	1		444		22	376	574.76
20	Miller Av.	1906	2224	9	1		1737	487	57	987	2147.21
21	Spring, Miller to Hiscock	1907	1252	4			688	564	*32		1070.92
22	West Washington and 3rd	1907	2834	8	2		2834		*88		2369.03
23	S. Division (Note)	1906	200	5	1		200		8	160	250.00
24	Geddes Av. Hill and Oswego	1907	1730	5	2		1730		*30		1530.50
25	State and Dewey Av.	1907	3134	3	2		2882	242	*88		2186.57
26	Broadway and Wall St.	1907	5682	20	2		3571	2111	*143		4989.01
27	Second Ward	1908	11470	24	13		3540	1930	*337		8035.98
28	Belser, Observatory, Volland	1907	2380	4	3		2380		*39		1895.50
29	Spring St. extension	1908	896	3	1		896		*26		632.32
30	E. Catherine and Clark	1908	1498	3	2		1498		*38		1148.36

Sheet Total ..... \$156,549.83

Note: District 23 never accepted by City. Above data is Engineer's approximate estimate.

District No.	Street.	Date	Total length of main	No. manholes	No. flush tanks	No. light holes	8-in. tile	10-in. tile	No. of house connections	Length of house conn.	Flush tanks changed to manhole	Total cost
31	Fuller and Elizabeth.....	1907	1080	2	2	..	1080	....	*22	...	...	\$ 943.60
32	S. Main, Mosley, Ashley.....	1909	3679	8	3	..	3108	571	*98	...	...	2,229.03
33	Arch, White, McKinley.....	1909	1458	3	..	..	....	1458	*58	...	...	513.49
34	Packard, Granger, Ferdon....	1909	10128	27	7	..	7030	3098	*376	...	...	6,300.06
35	Second, William to Liberty...	1909	321	..	1	..	321	....	*12	...	...	240.69
36	N. 5th Av. and E. Summit....	1910	891	2	2	..	891	....	*27	...	...	741.30
37	Cambridge, Wash. to Hill....	1910	1200	3	2	..	1200	....	*34	...	...	911.39
38	Hill Division to Main.....	1910	1320	3	1	..	1320	....	*40	...	...	1,037.00
39	Fuller, Glen to State.....	1910	1197	3	1	..	1197	....	*19	...	...	815.93
40	Ashley, Kingsley to Ann.....	1910	771	2	1	..	771	....	*30	...	...	667.77
41	Felch, Fountain, Hiscock, Chapin and Cherry .....	1910	4070	8	6	4	3328	742	*122	...	...	3,229.79
42	N. Main, Summit to A. A. R.R.	1911	651	2	1	..	651	....	17	230	...	680.14
43	4th Av., Beakes to Summit..	1911	869	2	1	..	869	....	*31	...	...	646.55
44	Depot, 4th Av. to Main.....	1911	335	..	1	..	335	....	*9	...	...	204.26
45	White and McKinley .....	1911	345	1	1	..	345	....	*18	...	...	247.32
46	Olivia Av. and Minerva Rd...	1911	733	2	1	..	733	....	*29	...	...	538.53
47	E. Ann, Glen to Ingalls.....	1911	655	1	1	..	655	....	*28	...	...	532.71
48	Murray Av., Wash. to Liberty	1912	724	4	1	1	738	....	27	350	...	1,009.62
49	Olivia Av. N of Minerva Rd..	1912	157	..	1	1	166	....	8	102	...	301.02
50	Myrtle, Oswego to City Limits	1912	651	1	1	1	668	....	17	370	...	1,795.69
51	Summit St., Main to Spring..	1914	1295	5	1	1	1302	....	*41	...	...	1,158.57
52	Hiscock St., Fount'n to Miner	1913	372	..	1	1	378	....	*14	...	...	318.41
53	Crest Av. & W. Washington..	1914	1774	4	3	3	1798	....	66	1006	1	2,432.81
54	W. Liberty to City Limits....	1913	464	1	1	1	472	....	24	382	1	1,101.54
55	Austin Av. & Washtenaw Av..	1914	2486	9	2	2	2494	....	*78	...	...	3,862.29
56	3rd Ward & Washtenaw Av..	1914	7186	22	8	8	6832	430	*244	...	...	7,655.78
57	Geddes Av., Oswego to 210 ft E. ....	1914	276	..	1	1	281	....	6	80	1	574.29
58	W. Huron St. to end of pav't..	1913	75	..	1	1	82	....	3	12	1	187.06
59	Ann St., Clark to Observatory	1913	610	1	1	1	614	....	*18	...	...	765.61
60	Brown St., 4th Av. & Philip St.	1914	2551	7	3	3	2576	....	*93	...	...	2,902.70
61	E. Catherine, Detroit & 4th..	1914	2622	9	4	4	2626	....	73	1326	...	4,863.19
62	E. Cath., Clark to 100 ft. E..	1914	101	..	1	1	104	....	*5	...	...	155.14

Sheet total .....\$49,563.28  
 Note.—In district No. 50 one 8-inch house connection, 28 feet long, is included in above table.  
 \*Branches only

SUMMARY OF SANITARY SEWERS IN THE CITY OF ANN ARBOR—(Continued.)

Dist. No.	Street.	Date.	Total length of main.	No. manholes.	No. flush tanks.	No. light holes.	8-inch tile.	10-inch tile.	No. of house connections.	Length of flush tank changed to manhole.	Total cost.
63	Sixth, Seventh Eighth Sts. ....	1914	3146	12	5	5	696 C.I. 2372 T 36 C.I.		88	1330	\$ 4658.28
64	Third, Fourth and Fifth Sts....	1914	647	1	3	3	328 T.		*31		750.98
65	Lackard St. ....	1914	428	1			428		*11		271.15
66	First St., Catherine to Ann....	1914	225		1	1	231		*10		423.80
67	Moore St. Broadway to Pontiac.	1914	545	2	1	1	546		*16		634.22
68	Seventh, Bath and Willow Sts..	1915	4523	1	0	0	3735	788	*77		3,593.14
69	Mosley St., Second to Third St..	1916	250		1	1	222		*14	1	250.63
70	West St. from Main St. West..	1916	552	3	1		504		*24		622.18
71	Roosevelt Ave, Church to Forest	1916	222		1		204		*9		204.92
72	Hamilton, Rose & Sheehan Add.	1917	10297	33	9		6014	3661	*311		16,293.03
73	Olivia Av. from Wells St. North	1915	138		1	1	188		*6		150.21
74	Eber White Addition .....	1916	1766	10	2		1070		48	1064	2,663.82
75	Lincoln St., 4th Ave to Main..	1916	564	2	2		524		*20		640.89
	Hill, Ononodaga, Geddes, Berkshire										
	Washington St. 12th to 14th....	1917	1366	6	2		1312		*27	1	2,499.17
76	John K. Ave and First St.....	1916	995	4	2		340 V.t. 12 C.I. 923	250 15"	*22 *36		862.93 1,082.34

78	Fifth St. south of Madison....	1916	882	3	1	806				*38			874.80
79	Hiscock St., Summit to Spring.	1916	1080	0	1	1002				*39			1,251.27
80	Seventh St., Liberty to Jefferson	1917	1374	6	-	12 C.I.				*26			1,204.50
						1310 V.T.							
81	Wells St., Ballwin to Ferdon..	1917	368		1	336				*16			485.85
82	Packard and Brooklyn .....	1917	3307	11	2	3073				*117			4,165.25
83	Eighth St., Huron to Washingt'n	1917	210		1	198				*6			339.01
84	Killins' Heights Add.....	1917	5324	14	8	4932				*196			7,218.53
85	Eber White and Soule Blvd.....	1917	1144	7		1082				*31			2,035.79
86	West Hoover Ave. ....	1918	447	4		415				*16			990.66
87	Ninth St., Huron St., South....	1918	216		1	200				*8			309.14
88	Jackson Ave., Forks to Limits	1919	1945	7	1	1945	0		65	1126	1		2,381.63
89	Jones and Mill Sts.....	1920	530	2	1	530	0		*7		0		1,233.00
90	Berkshire Rd. and Orchard St..	1920	880	4	1	880	0		20		0		2,534.09
91	E. Hoover Ave. ....	1920	355	1	1	355	0		10		0		711.25
92	Edward St. ....	1920	240	2	0	240	0		*5		0		526.37
93	Seventh St. Wash. to Huron St.	1919	146	1	0	146	0		2		2	0	304.79
94	Boulevard Drive .....	1919	1016.5	5	0	1017	0		1			0	2,215.81
	Dexter Ave. ....	1919	168	1	0	168	0		2		24	0	101.00
95	Pauline Boulevard .....	1920	216	1	0	216	0		8		1		687.71
96	Fifth Ave., South Madison....	1920	250	3	0	250	0		1		0		632.99
97	Day St., Berkshire to Wayne..	1920	556	4	0	556	0		1		0		1,609.73
	*Branches only.												
	Totals of Sheets 1 and 2....												\$268,280.73
	Total .....												\$273,527.97

**Treasurer's Report.**

10,471.65

Month ending Jan. 31, 1921.

Contingent—Receipts:		
City scaler .....	\$ 15.00	
Brass sold .....	8.00	
Auto .....	2.00	
Billiards and pool li- censes .....	82.00	
Coffee House .....	25.00	
Peddlers .....	9.00	
Bill Poster .....	25.00	
Dog licenses .....	6.25	
Fees on tax col- lection .....	823.10	
Int. on bank bal. ....	250.23	\$1,245.67
Police—City fees (O'Brien)....	7.30	
Poor—Rent .....	15.00	
Street—		
Rent .....	\$15.00	
Cement .....	2.93	
Cutting weeds .....	76.50	94.43
Park—		
Tree work .....	\$45.15	
Spraying .....	12.00	
Shrubbery .....	147.75	
Rent .....	10.00	214.90
Sidewalk building .....		140.95
Water Works General Fund—		
From Manager ....	\$12,708.14	
Bonds sold .....	1,000.00	13,708.14
Water Dept. Sinking Fund—		
From Manager of Dept. ....	1,000.00	
Uncollected City Tax—		
Collections .....	4,999.93	
Totals .....	\$ 21,426.32	
On hand, Jan. 1, 1921.....	219,409.26	
		\$240,835.58
Warrants paid .....	29,962.07	
On hand Feb. 1, 1921.....	\$210,873.51	
Disbursements—		
Contingent .....	\$ 6,828.27	
Cemetery .....	95.00	
Fire Dept. ....	3,378.19	
Police .....	1,897.51	
Poor .....	142.78	
Street .....	1,632.45	
Park .....	318.48	
Street light .....	1,891.61	
Bridge, culvert and crosswalks	713.48	
Water Work General fund....	11,091.99	
Water—(Hydrant, rental, etc.)	2,231.71	
Rejected tax .....	273.95	
Charter Commission fund ....	3.65	
Totals .....	\$29,962.07	
On Hand—		
Contingent .....	\$41,334.91	
Cemetery .....	1,113.07	
Fire Dept. ....	9,214.27	
Police .....	10,150.66	
Poor .....	949.57	
Street .....	4,519.26	
Park .....	658.17	
Street light .....	8,985.16	
Bridge, culvert and crosswalk.	54,658.40	
Water Works General fund....	58,112.62	
Special Water Works (Com- pletion) .....	15,570.28	
Water Dept. Sinking fund ....	8,000.00	
Water—(Hydrant, rental, etc.)	6,693.23	
Charter Commission fund ....	1,385.56	
Totals .....	\$221,345.16	

On hand Feb. 1, 1921.....	\$210,873.51
Overdrawn—	
Sidewalk building .....	\$ 312.17
Uncollected City tax .....	3,800.18
Delinquent tax .....	5,929.95
Rejected tax .....	130.59
Edward street grading .....	298.76

Totals .....	\$10,471.65
Warrants Outstanding—	
Contingent .....	\$ 86.00
Police .....	276.98
Street .....	150.45
Park .....	4.50
Water Work General fund.....	71.94
Totals .....	\$589.87

**State—County—School**

State Tax—Tax collection ..	\$ 12,856.96
County Tax—Tax collections.	17,856.89
School Tax—Tax collections..	35,713.79

Totals .....	\$ 66,427.64
On hand Jan. 1, 1921.....	382,379.24

	\$448,806.88
Checks paid .....	175,000.00

On hand Feb. 1, 1921 .....	\$273,806.88
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State tax .....	\$ 40,000.00
County tax .....	60,000.00
School tax .....	75,000.00

Totals .....	\$175,000.00
State tax .....	\$ 54,607.77
County tax .....	71,399.71
School tax .....	147,799.40

Totals .....	\$273,806.88
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On hand Feb. 1, 1921.....	\$273,806.88
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Labor Account—Sewers:	
Receipts—	
Dist. No. 72—Tax col. ....	\$ 70.11
Dist. No. 77 .....	8.16
Dist. No. 82 .....	21.76
Dist. No. 84 .....	1,730.62

Totals .....	\$1,830.65
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Overdrawn, Jan. 1, 1921.....	60.61
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On hand Feb. 1, 1921.....	\$1,770.01
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On Hand—	
Dist. No. 68 .....	\$ 477.27
Dist. No. 69 .....	107.98
Dist. No. 71 .....	70.29
Dist. No. 72 .....	3,191.76
Dist. No. 75 .....	94.98
Dist. No. 76 .....	140.91
Dist. No. 77 .....	102.49
Dist. No. 78 .....	27.51
Dist. No. 80 .....	217.29
Dist. No. 82 .....	538.33
Dist. No. 86 .....	205.23
Dist. No. 87 .....	68.57
Dist. No. 88 .....	316.93
Dist. No. 89 .....	236.78
Dist. No. 91 .....	114.11
Dist. No. 92 .....	122.62
Dist. No. 94 .....	2,108.33
Dist. No. 95 .....	922.32
Dist. No. 96 .....	824.10
Dist. No. 64 .....	49.92



Dist. No. 65 .....	32.20	Dist. No. 11 .....	789.70
Dist. No. 66 .....	16.54	Dist. No. 12 .....	3.44
Dist. No. 67 .....	89.33	Dist. No. 22 .....	317.55
Dist. No. 70 .....	134.85	Dist. No. 23 .....	1,083.44
Dist. No. 83 .....	297.76	Dist. No. 32 .....	151.94
Dist. No. 85 .....	250.10	Dist. No. 33 .....	214.58
Dist. No. 86 .....	13.87	Dist. No. 34 .....	1,268.29
Dist. No. 93 .....	63.45	Dist. No. 36 .....	1,925.88
Totals .....	\$10,835.82	Dist. No. 37 .....	253.82
	9,065.81	Totals .....	\$23,371.28
On hand Feb. 1, 1921 .....	\$ 1,770.01	Overdrawn—	
Overdrawn—		Dist. No. 30 .....	\$ 265.89
Dist. No. 70 .....	\$ 165.74	Dist. No. 31 .....	126.15
Dist. No. 73 .....	156.75	Dist. No. 35 .....	267.24
Dist. No. 74 .....	28.83	Dist. No. 38 .....	830.13
Dist. No. 79 .....	27.21	Dist. No. 45 .....	305.18
Dist. No. 81 .....	37.60	Dist. No. 10 .....	1,493.89
Dist. No. 83 .....	327.85	Dist. No. 13 .....	30.05
Dist. No. 85 .....	223.75	Dist. No. 14 .....	774.58
Dist. No. 90 .....	181.01	Dist. No. 15 .....	971.74
Dist. No. 93 .....	293.15	Dist. No. 16 .....	1,323.88
Dist. No. 97 .....	370.19	Dist. No. 17 .....	154.99
Dist. No. 68 .....	477.27	Dist. No. 18 .....	1,644.89
Dist. No. 69 .....	13.60	Dist. No. 19 .....	521.10
Dist. No. 71 .....	54.48	Dist. No. 20 .....	793.91
Dist. No. 72 .....	2,551.59	Dist. No. 21 .....	1,520.18
Dist. No. 73 .....	102.96	Dist. No. 24 .....	27.90
Dist. No. 74 .....	50.33	Dist. No. 25 .....	411.11
Dist. No. 75 .....	511.46	Dist. No. 26 .....	16.71
Dist. No. 76 .....	241.35	Dist. No. 27 .....	1,346.66
Dist. No. 77 .....	193.27	Dist. No. 28 .....	392.87
Dist. No. 78 .....	36.69	Dist. No. 29 .....	633.76
Dist. No. 79 .....	129.85	Dist. No. 30 .....	634.09
Dist. No. 80 .....	259.75	Dist. No. 35 .....	142.95
Dist. No. 81 .....	4.17	Dist. No. 38 .....	1,208.84
Dist. No. 82 .....	253.36	Dist. No. 39 .....	2,960.00
Dist. No. 84 .....	278.00	Dist. No. 40 .....	2,765.00
Dist. No. 87 .....	53.40	Dist. No. 41 .....	1,518.10
Dist. No. 88 .....	785.65	Dist. No. 42 .....	964.35
Dist. No. 89 .....	376.13	Dist. No. 43 .....	3,135.00
Dist. No. 90 .....	590.14	Dist. No. 44 .....	5,210.00
Dist. No. 91 .....	137.27	Totals .....	\$32,392.74
Dist. No. 92 .....	153.00		23,371.28
Totals .....	\$9,065.81	Overdrawn Feb. 1 1921 .....	\$ 9,021.46
Tax Account—Pavement:		Warrants Outstanding—	
Receipts—		Dist. No. 45 .....	\$3.25
Dist. No. 12—Tax col. ....	\$ 20.94	Totals .....	\$3.25
Dist. No. 16 .....	35.51	Curb and Gutter—	
Dist. No. 17 .....	9.09	Receipts—	
Dist. No. 18 .....	22.50	Dist. No. 2 .....	\$ 1,071.67
Dist. No. 20 .....	73.88	Dist. No. 3 .....	1,416.16
Dist. No. 26 .....	1.49	Dist. No. 4 .....	1,417.50
Dist. No. 28 .....	80.16	Dist. No. 5 .....	1,841.37
Dist. No. 29 .....	40.60	Dist. No. 6 .....	1,244.72
Dist. No. 30 .....	43.03	Dist. No. 7 .....	2,217.14
Dist. No. 33 .....	12.74	Dist. No. 8 .....	1,481.88
Dist. No. 36 .....	61.52	Dist. No. 9 .....	1,137.60
Totals .....	\$ 401.46	Totals .....	\$11,828.04
Overdrawn Jan. 1, 1921 .....	9,422.92	Overdrawn Jan. 1, 1921 .....	10,437.22
Overdrawn Feb. 1, 1921 .....	\$9,021.46	On hand Feb. 1, 1921 .....	\$ 1,390.82
On Hand—		On Hand—	
Dist. No. 20 .....	\$ 254.34	Dist. No. 2 .....	\$ 52.63
Dist. No. 32 .....	243.67	Dist. No. 3 .....	74.56
Dist. No. 36 .....	1,854.01	Dist. No. 4 .....	382.86
Dist. No. 37 .....	834.77	Dist. No. 5 .....	146.97
Dist. No. 39 .....	2,563.38	Dist. No. 6 .....	48.32
Dist. No. 40 .....	1,021.41	Dist. No. 7 .....	1,034.54
Dist. No. 41 .....	1,189.33	Dist. No. 8 .....	58.08
Dist. No. 42 .....	309.01	Dist. No. 9 .....	115.20
Dist. No. 43 .....	547.48		
Dist. No. 44 .....	8,545.30		

Totals .. .. .	\$1,913.16
	522.34
On hand Feb. 1, 1921 .....	\$1,390.82
Overdrawn—	
District No. 1 .....	\$522.34

Totals .. . . . \$522.34

This is to certify that there was on deposit in the Ann Arbor Savings Bank to the credit of the City of Ann Arbor, Ross Granger, Treasurer, \$467.691.93, at the close of business, January 31, 1921.

Signed, WILLIAM L. WALZ, Cashier.  
Dated at Ann Arbor, Michigan, February 1, 1921.

RECAPITULATION

On hand, City Tax fund....	\$210,873.51
On hand, State Tax fund ....	54,607.77
On hand, County Tax fund ..	71,399.53
On hand, School Tax fund ..	147,799.40
On hand Sewer funds .....	1,770.01
On hand, Curb and Gutter funds .....	1,390.82

Totals .. . . . \$487,841.22  
Overdrawn Pavement funds..\$9,021.46

On hand Feb. 1, 1921.....\$478,819.76  
Ann Arbor Savings Bank....\$467,691.93  
Checks and cash on hand.... 11,127.83

Balance .. . . . \$478,819.76

ROSS GRANGER, City Treasurer.

Reports of City Treasurer, Clerk and Acting Marshal for month of January received and ordered to take usual course.

City Clerk announced that Council would appoint City Physician and Poor Commissioner at next regular meeting, and suggested that if Council proposed to adopt Eastern time for summer months that the matter be taken under consideration.

By Ald. Haarer:

Be it resolved and the City Clerk

is hereby authorized to receive the nominating petitions of candidates for Councilmen at large under the proposed city charter, said nominating petitions to be received by said City Clerk not later than four o'clock p. m. Wednesday, February 9th, 1921.

Be it further resolved that the City Clerk make all necessary arrangements for the placing of the names of all candidates for the office of Councilmen at large, for whom nominating petitions are received, on the primary election ballot for the primary election to be held on Wed. March 2nd, 1921, said nomination to be on partisan ballots.

Adopted by following vote:  
Yeas, Ald. Sugden, Slauson, Ehnis, Haarer, Henderson, Lucas, Groves, Donnelly, Moore, Spathelf, MacGregor, Reichert, Lutz, Pres. Lewis, 14. Nays, none.

By Ald. MacGregor:

Resolved that the present election commissioners, John T. Kenney, George H. Fischer and George P. Ottley be reappointed as election commissioners.

Adopted by following vote:  
Yeas, Ald. Sugden, Slauson, Ehnis, Haarer, Henderson, Lucas, Groves, Donnelly, Moore, Spathelf, MacGregor, Reichert, Lutz, Pres. Lewis, 14. Nays, none.

Pres. Lewis and Ald. MacGregor spoke relative to illness of Ald. C. C. Freeman.

On motion of Ald. Sugden, Council adjourned.

ISAAC G. REYNOLDS,  
City Clerk.