

REGULAR SESSION

Council Chamber,

Ann Arbor, Mich., March 3, 1930.

Meeting called to order by City Clerk and Ald. Graf chosen to preside pro tem.

Present: Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Freeman—8.

Absent: Ald. Severance, Townley, Fisher, Lutz, Pres. Myers—5.

Printed pamphlets of February 17 were approved.

COMMUNICATIONS**From Board**

To the Board of Public Works,
Ann Arbor, Michigan.

Gentlemen:

I submit the following preliminary estimates of the cost of construction of:

Hoover Avenue curb and gutter,
Ann Arbor Railroad to Green St.:

Labor and Material.....	\$1,036.00
Engineering and Contingencies	103.60
Estimated Cost	<u>\$1,139.60</u>

Kingsley Street curb and gutter,
Fourth Avenue to Detroit Street:

Labor and Material.....	\$903.00
Engineering and Contingencies	90.30
Estimated Cost	<u>\$993.30</u>

Linwood Avenue curb and gutter,
Doty Avenue to Wilton Avenue:

Labor and Material.....	\$1,208.00
Engineering and Contingencies	120.80
Estimated Cost	<u>\$1,328.80</u>

Fourth Avenue curb and gutter,
Packard Street to Madison Street:

Labor and Material.....	\$1,774.00
Engineering and Contingencies	177.40

Estimated Cost	<u>\$1,951.40</u>
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Green Street curb and gutter,
Hill Street to South End:

Labor and Material.....	\$3,159.00
Engineering and Contingencies	315.90

Estimated Cost	<u>\$3,474.90</u>
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Respectfully submitted,

GEO. H. SANDENBURGH,
City Engineer.

Moved by Mr. Rentschler that plans, specifications and preliminary estimates be approved and referred to Council.

Council Action

Referred to Street Committee.

From Board

To the Board of Public Works,
Ann Arbor, Michigan.

Gentlemen:

I submit the following preliminary estimate of the cost of construction of:

Arbana Drive pavement, Huron Street to Linwood Avenue:

7" reinforced concrete pavement, estimated cost, \$7,254.12.

1½"-1½" sheet asphalt on 4" black base, estimated cost, \$7,710.84.

1½"-1½" sheet asphalt on 6" concrete base, estimated cost, \$8,712.06.

2" sheet asphalt on 6" vibrolithic case, estimated cost, \$8,805.18.

Catherine Street pavement, Division Street to State Street:

7" reinforced concrete pavement, estimated cost, \$4,118.51.

4" black base, 1½"-1½" sheet asphalt pavement, estimated cost, \$4,471.83.

3" black base, 1½"-1½" sheet asphalt pavement, estimated cost, \$4,072.53.

2" sheet asphalt on 6" vibrolithic concrete base, estimated cost, \$5,-329.40.

Lawrence Street pavement, Division Street to State Street:

4" black base, 1½"-1½" sheet asphalt pavement, estimated cost, \$5,790.07.

3" black base, 1½"-1½" sheet asphalt pavement, estimated cost, \$5,279.12.

6" reinforced concrete pavement, estimated cost, \$4,837.14.

2" sheet asphalt on 6" vibrolithic base, estimated cost, \$6,848.04.

North University Avenue pavement, Forest Avenue to Observatory Street:

1½"-1½" sheet asphalt on 6" concrete base, estimated cost, \$6,-293.43.

4" black base, 1½"-1½" sheet asphalt pavement, estimated cost, \$5,353.59.

7" reinforced concrete pavement, estimated cost, \$4,938.01.

2" sheet asphalt on 6" vibrolithic base, estimated cost, \$6,365.86.

Wilmot Street Pavement:

1½"-1½" sheet asphalt on 6" concrete base, estimated cost, \$5,-512.38.

4" black base, 1½"-1½" sheet asphalt pavement, estimated cost, \$4,707.72.

6" reinforced concrete pavement, estimated cost, \$3,950.10.

2" sheet asphalt on 6" vibrolithic base, estimated cost, \$5,559.40.

Geddes Avenue pavement, Oswego Street to Ancudaga Street:

1½"-1½" sheet asphalt on 6" concrete base, estimated cost, \$5,-740.40.

7" reinforced concrete pavement, estimated cost, \$4,526.77.

2" sheet asphalt on 6" vibrolithic concrete base, estimated cost, \$5,-761.91.

Packard Street widening from Hill Street to State Street, and State Street from Hill Street to Packard Street:

Labor and Material.....\$4,447.85

Engineering and Contin-
gencies, 20% 889.57

Estimated Cost\$5,337.42

Oakland Avenue pavement, Hill Street to Forest Avenue, 2" sheet asphalt on 6" vibrolithic base:

Labor and Material.....\$21,611.66

Engineering and Contin-
gencies 2,161.16

Estimated Cost\$23,772.82

Prospect Street pavement, East University Avenue to Wells Street:

1½"-1½" sheet asphalt on 6" concrete base, estimated cost, \$8,-854.89.

4" black base, 1½"-1½" sheet asphalt pavement, estimated cost, \$7,532.58.

7" reinforced concrete pavement, estimated cost, \$6,949.80.

2" sheet asphalt on 6" vibrolithic concrete base, estimated cost, \$8,-953.44.

Respectfully submitted,

GEO. H. SANDENBURGH,

City Engineer.

Moved by Mr. Rehberg that plans, specifications and preliminary estimates be approved and referred to Council.

Council Action

Referred to Street Committee.

From Mr. and Mrs. J. Dancer, protesting against the Detention Home at 514 Catherine Street, was received.

City Attorney Lehman reported

on telephone conversation with Dr. Wessinger in which the Doctor stated that the Detention Home constituted a nuisance and requested same abated.

Moved by Ald. Bradley that City Engineer be instructed to take such steps as necessary to have nuisance abated.

Adopted by the following vote: Yeas, Ald. Wuertth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Freeman—8. Nays, none.

From Board of Police Commissioners, reporting Traffic Bureau Forfeitures for month of February amounting to \$84.50, received and ordered on file.

From family of late Clarence J. Sweet, expressing their sincerest appreciation for kindly sympathy shown in their late sorrow, was received and ordered placed on file.

From K. R. Aldrich, General Manager, the Glider Section, University of Michigan, asking for permission to use the old fire hall on East University Avenue for the construction and repairing of gliders, was received and referred to Board of Public Works.

PETITIONS

Of Lydia K. Dieterle et al., requesting pavement on Ravenna Blvd. between West Washington St. and end of street, was received and referred to Street Committee.

COMMITTEE REPORTS

Finance Report

Contingent Fund

Edward W. Staebler, salary	\$ 41.66
Fred C. Perry, salary.....	275.00
Clarence J. Sweet, salary..	81.29
Esther Russell, salary.....	125.00
Leona Rohde, salary.....	100.00
Herbert W. Crippen, salary	266.66
Timothy P. Stowe, salary..	150.00

Ernst M. Wurster, salary	250.00
Fred J. Looker, salary.....	175.00
George H. Sandenburgh, salary	400.00
H. R. Scovill, salary.....	275.00
Julius Lohrke, salary.....	145.00
Clara Mast, salary.....	125.00
John A. Wessinger, salary	250.00
John T. Kenny, salary.....	200.00
Owen A. Stricklen, salary	158.33
Marguerite Hannan, salary	108.33
Theron S. Hill, salary.....	75.00
Frank Marz, salary, half month	78.50
Carl A. Lehman, salary.....	183.33
Cora Green, salary.....	50.00
Claud F. Hartman, salary	200.00
Fred J. Staeb, salary, half month	62.50
Contingent Fund total salaries.....	\$3,775.60

Fire Fund

Charles Andrews, salary..\$	114.50
Henry McLaren, salary.....	91.50
Ralph Edwards, salary.....	91.50
Jacob Gwinner, salary.....	83.00
Herman Kruse, salary.....	83.00
Frank Markey, salary.....	78.50
Emil Damman, salary.....	78.50
Earl Arnold, salary.....	78.50
Benj. Zahn, salary.....	78.50
Henry Nevroth, salary.....	78.50
Arthur Clark, salary.....	78.50
Clyde Carpenter, salary....	78.50
John Comiskie, salary.....	78.50
Walter Feldkamp, salary..	78.50
Percy Whitlock, salary.....	78.50
Edw. Zeeb, salary.....	78.50
George Schmidt, salary....	78.50
Henry Kolander, salary....	78.50
Albert Hoffman, salary....	78.50

Elmer Rentz, salary.....	78.50	Harold King, salary.....	80.00
Oscar Rentz, salary.....	78.50	Clifford Stang, salary.....	72.50
Earnst Heller, salary.....	78.50	Herbert Kapp, salary.....	72.50
Ira Nevarre, salary.....	78.50	Floyd Gentner, salary.....	72.50
Frank Ryan, salary.....	78.50		
Laurence Chatterton, salary	78.50	Police Fund total salaries, half month, February	\$2,372.50
John Waterman, salary....	78.50		
William Keihl, salary.....	78.50		
Carl Nevins, salary.....	78.50		
Fred Wadhams, salary.....	78.50		
Harold Gauss, salary.....	78.50		
Charles Carroll, salary.....	45.00		

Fire Fund total salaries,
half month, February....\$2,471.00

Police Fund

Thomas O'Brien, salary....\$	125.00
Louis Fohey, salary.....	90.00
Norman Cook, salary.....	90.00
Sherman Mortenson, salary	90.00
M. G. Howard, salary.....	80.00
Charles Kapp, salary.....	80.00
Irwin Keebler, salary.....	80.00
Harold Gee, salary.....	80.00
Benj. Ball, salary.....	80.00
Roland Wooster, salary....	80.00
Herman Suma, salary.....	80.00
Oscar Wier, salary.....	80.00
Julius Ehnis, salary.....	80.00
Walter Schmid, salary.....	80.00
Albert Heusel, salary.....	80.00
John Osborn, salary.....	80.00
William Marz, salary.....	80.00
Harry Smith, salary.....	80.00
Clifford West, salary.....	80.00
Casper Michaelson, salary	80.00
Wm. Hitchingham, salary	80.00
Clark Earl, salary.....	80.00
Roy Richter, salary.....	80.00
Irwin Davisson, salary.....	80.00
Eugene Gehringer, salary	80.00

Poor Fund

George McCollum, salary..\$	50.00
Edwin Ganzhorn, salary....	50.00
Poor Fund total salaries..\$	100.00

Cemetery Fund

George McCollum, salary..\$	105.00
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Water Works Fund

George S. Vandawarker, salary	\$ 270.00
Leslie J. Bush, salary.....	250.00
Owen E. Stricklen, salary	50.00
Verl Larmee, salary.....	20.00
William Rohde, salary.....	20.00
John Lindenschmitt, salary	20.00
Robert Norris, salary.....	20.00
Total monthly salaries..\$	650.00

Harry Willsher, salary.....	72.50
Waldo Eisemann, salary....	75.00
Fred Linde, salary.....	87.50
Robert Rowe, salary.....	70.00
Fred Rowe, salary.....	50.00
William Zachman, salary..	62.50
A. E. Hawkes, salary.....	70.00
C. W. Shetterly, salary.....	100.00
Donna Woodward, salary..	62.50
William Groves, salary.....	70.00
J. C. Ledwidge, salary.....	70.00
John Ardner, salary.....	62.50
Total semi-monthly salaries	\$ 852.50

Park Fund

E. A. Gallup, salary.....	\$ 300.00
Edna Spiegelberg, salary..	25.00
Total Park Fund salaries	\$ 325.00

Street Fund

A. J. Paul, salary.....	\$ 250.00
Edna Spiegelberg, salary..	90.00
John Webber, salary.....	125.00
Total Street Fund salaries	\$ 465.00

Following warrants issued since last report:

Contingent Fund

8092 The Frederick Post Co., materials (to save discount)	\$ 9.00
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Water Works Fund**Water Works First Issue:**

7836 First National Bank & Trust Co., 14 c.....	\$ 140.00
7912 First National Bank & Trust Co., 4 b 4 c.....	2,040.00
7913 First National Bank & Trust Co., 4 c.....	40.00
8093 Fidelity Trust Co., 2 c	20.00
8094 First National Bank & Trust Co., 1 c.....	10.00
8205 First National Bank & Trust Co., 1 c.....	10.00

Total Water Works First Issue \$2,260.00

Water Works Completion:

8091 Farmers & Mechanics Bank, 2 c.....	\$ 45.00
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Water Works Meter:

7837 Ann Arbor Savings Bank, 2 c.....	\$ 45.00
8088 Ann Arbor Market Fund, 1 c.....	22.50

8089 Farmers & Mechanics Bank, 4 c	90.00
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Total Water Works Meter \$ 157.50

Water Rights:

8089 Farmers & Mechanics Bank, 4 c.....	\$ 90.00
8090 First National Bank, 1 c	22.50

Total Water Rights..... \$ 112.50

Paving Tax Accounts**District No. 92:**

8205 First National Bank, 2 c	\$ 47.50
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District No. 93:

8205 First National Bank, 2 c	47.50
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District No. 94:

7836 First National Bank & Trust Co., 2 c.....	19.00
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8205 First National Bank, 2 c	47.50
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\$ 66.50

District No. 95:

8205 First National Bank, 2 c	47.50
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District No. 96:

8205 First National Bank, 2 c	47.50
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Total Paving Tax Accounts \$ 256.50

CONTINGENT FUND**Municipal Garage**

Theodore Podewil, serv. \$	58.33
The Mayer-Schairer Co., office expense	7.75

Municipal Garage Total \$ 66.08

Engineering Department

Geo. Bleekman, services \$	40.00
K. W. Donnell, services ..	87.50

Alex Jarowski, services ...	15.40
Wm. Maulbetsch, services	100.00
V. W. McAdam, services	100.00
Willard Ponto, services ...	16.80
F. Schmid, services	75.00
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Engineer Dept. total salaries	\$ 434.70

Harold and Viola Foulks, services	\$ 50.00
Emma Perry, services	19.20
Emma Wurster, services ..	31.20
Michigan Bell Telephone Co., N-P services	246.45
Washtenaw Gas Co., N-P services	5.64
Frank Kapp, labor at dump	50.00
Edward Besch, collecting garbage	1,925.00
Jennie Matthews, rent	50.00
City of Ann Arbor Street Fund, materials	42.84
The Bond Buyer, office ex.	52.50
Burroughs Adding Mach. Co., office expense	4.45
The Dudley Paper Co., office expense	6.90
Kerr & Sons, office expense	13.00
Mayer-Schairer Co., office expense	10.00
Fred C. Perry, office expense	4.25
Railway Express Agency, office expense94
State Savings Bank, office expense	4.00
Superior Seal & Stamp Co., office expense	15.00
W. H. Butler, insurance	3,278.01
Millard Press, printing	34.40
City of Ann Arbor Municipal Garage, M. Garage (Health Dept.)	43.40
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Total	\$5,887.18

Contingent Fund Total, including salaries\$10,163.56

FIRE FUND

Washtenaw Gas Co., N-P services	\$ 12.40
Kyer Laundry Co., office expense	19.97
Swisher Grocer Co., office expense	8.35
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Total	\$ 40.72
Fire Fund Total, including salaries	\$2,511.72

POLICE FUND

Sinclair Refining Co., mat. \$	3.69
City of A. A. Municipal Garage, M. Garage	55.47
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Total	\$ 59.16
Police Fund Total, including salaries	\$2,431.66

POOR FUND

Mrs. Anna Spathelf, supplies	\$ 25.00
Steve Brousalis, supplies .	37.00
Pierce Grocery, supplies .	180.25
Staebler Coal Co., fuel	10.45
George W. Millspaugh, rent	16.00
Mrs. Robert Levin, rent ..	20.00
Mrs. Clara Foster, rent ...	25.00
G. E. Waterman, rent	25.00
City of Ann Arbor Street Dept., hauling coal	20.00
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Total	\$ 358.70
Poor Fund total, including salaries	\$ 458.70

WATER WORKS FUND

Millard Press, office exp. \$	26.00
Elliott-Fisher, office exp. .	2.00
Allis-Chalmers Mfg. Co., materials	1.31
Westinghouse Electric & Mfg. Co., materials	138.38
Neptune Meter Co., mat.	73.31
A. & L. Battery & Electric Service, materials .	.65

William Hochrein & Sons, materials	5.00
Ann-A Fuel Co., materials	116.45
Staebler Oil Co., materials	10.00
George W. Efner, materials	14.30
H. B. Godfrey, materials ..	63.00
Michigan Central R. R. Co., materials	214.00
Mich. Bell Telephone Co., N-P service	50.87
Municipal Garage, M. Gar.	110.37
City Treasurer, Renewal and replacement exp. ..	4,000.00
Total	\$4,825.64

L. Gerrick, labor	62.40
H. Maier, labor	80.00
L. Furthmueller, labor ...	80.00
A. Jedele, labor	80.00
E. Mukensturn, labor	80.00
A. Gerstler, labor	65.65
O. D. Conger, labor	67.20
Louis W. Osborn, labor ...	60.00

Total labor\$ 575.25

Water Works Fund Total
including salaries\$6,903.39

PARK FUND

George Davis, labor\$	59.40
Ben Foster, labor	64.80
Andrew Keiman, labor ...	59.40
Ezra Moore, labor	54.00
Claude Wyman, labor	118.80
Tim McCarthy, team	4.50

Total Labor\$ 360.90

Michigan Bell Telephone Co., N-P services\$	3.50
August Krumrei, materials	2.25
Hascal Laraway, materials	22.50
Muehlig & Lanphear, mater.	.80
Washtenaw County Board of Road Commissioners, materials	15.00
Fred T. McOmber, insur.	6.70
City of A. A. Municipal Garage, M. Garage	27.42

Total \$ 78.17

Park Fund total, includ-
ing salaries\$ 764.07

STREET FUND

L. G. Bird, labor\$	63.00
Otto Blaess, labor	52.80
Camdem Dempsey, labor....	48.60
Fred Hanselman, labor ...	59.80
Sam Kalmbach, labor	1.50
Wm. Keppler, labor	44.20
Samuel Lutz, labor	40.00
James Mason, labor	52.65
Fred Mahlke, labor	1.60
Geo. Menice, labor	40.80
Michael Morhardt, labor ..	40.00
Christ Paul, labor	18.00
Arthur Raus, labor	52.80
Otto Schantz, labor	40.80
Ed. Schweickert, labor ...	14.00
John Shanahan, labor	59.40
Jake Strieter, labor	40.00
Herman Stoll, labor	40.50
Theo. Stellsteimer, labor ..	9.60
Fred Ulrich, labor	27.20
Ike Warner, labor	48.00
Wm. Wayman, labor	36.00
Chas. Youngbauer, labor .	32.00
Artificial Ice Co., team ..	18.00

Total labor\$ 881.25

Michigan Central R. R. Co.,
materials86

Street Fund Total, in-
cluding salaries\$1,347.11

RECAPITULATION

Contingent	\$10,172.56
Fire	2,511.72
Police	2,431.66
Poor	458.70
Cemetery	105.00
Water Works	9,478.39
Park	764.07
Street	1,347.11

Total City Funds\$27,269.21

Paving Tax Accounts..... 256.50

Grand Total\$27,525.71

Ann Arbor, Michigan
March 3, 1930.

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.

FRED C. PERRY,
City Clerk.

To the Honorable
the Common Council,
Gentlemen:

Your Finance Committee has reviewed the foregoing report. Warrants for salaries were drawn March 1, 1930. We recommend that the same be approved and that warrants be ordered drawn for the foregoing accounts.

LEONARD C. SAUER
EMIL H. SCHLENKER
Finance Committee.

Ald. Sauer moved the adoption of the report, which was adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Freeman—8. Nays, none.

Ald. Sauer presented following progress estimate approved by the Board of Public Works February 19, 1930:

Municipal Garage (heating and plumbing contract) — Third and final estimate, Hutzel & Company, contractors; amount due, \$596.01.

Moved by Ald. Sauer that estimate of Hutzel & Company be approved and Mayor and City Clerk authorized to draw warrant for amount due.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Freeman—8. Nays, none.

Sidewalk Committee Report

Ald. Freeman called attention to the accident on Camden Court and spoke relative to serious condition of sidewalk.

Park and Sanitary Committee Report

To the Honorable
the Common Council,
Gentlemen:

In accordance with your action January 20, 1930, your Park and Sanitary Committee opened bid at 11:00 o'clock A. M. February 19th, 1930, for the collection and disposal of garbage for a term of three years from and after March 7th, 1930, as follows:

Edward Besch, \$27,600.00 per year.

We respectfully recommend that the proposal of Edward Besch be accepted and the Mayor and City Clerk be instructed to sign contract when approved by the City Attorney.

Respectfully submitted,
FRANK P. HARRIS
J. F. WUERTH
Park and Sanitary Com.

Ald. Harris moved the adoption of the report, which was adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Freeman—8. Nays, none.

Poor and Cemetery Committee Report

Frank P. Quinn addressed Council relative to the building of a mausoleum in the Community Cemetery.

Moved by Ald. Schlenker that matter be referred to Poor and Cemetery Committee, City Engineer and City Attorney, to investigate and report back to Council.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Freeman—8. Nays, none.

Special Committee Report

Ann Arbor,
March 3, 1930

To the Honorable
Common Council,
Gentlemen:

At a meeting of a committee of

the whole held Feb. 13, 1930, a resolution was adopted that the Chairman of the Budget Committee, Chairman of the Finance Committee, Clerk, Treasurer and Mayor "be requested to obtain further information as to the possibility of expanding the present accounting system so that a monthly statement may be gotten out and estimating the approximate additional cost of same and report their recommendation to the Common Council."

This matter has been given due consideration and we beg to report as follows:

By making certain additions and changes in the present system, a monthly statement of unexpended and unencumbered balances in each fund, as well as cash on hand and in bank, can be had within fifteen days after the close of each month beginning with the month of July.

Some of the more important changes necessary are:

(1) Changing the fiscal year so it will end June 30. Action to bring this about was taken by you at Honorable Body meeting February 17,

(2) That all fund balances be eliminated on June 30, so that each fund starts out the new year with only the appropriation placed in the budget.

(3) That the records of each department be audited to June 30, 1930, and that the audit be made available by July 25, 1930.

Mr. F. E. Ross has offered to make the changes specified here, except making the audit mentioned in item No. 3, supervise the making of monthly reports and to audit the books for the next fiscal year for the sum of One Thousand Dollars.

This bid, we believe, is very reasonable, the desired results will be obtained, and your committee therefore recommends that a contract for the work as described

herein be given to Mr. Ross.

LEONARD P. FISHER
LEONARD C. SAUER
FRED C. PERRY
ERNST M. WURSTER
ED. W. STAEBLER

Committee.

Ald. Sauer moved the adoption of the report.

Amendment:

Moved by Ald. Freeman that report of the Special Committee be amended so as to provide that the City procure the services of a competent auditor with the understanding that a new accounting system be installed as of July 1, 1930.

Lost by the following vote: Yeas, Ald. Graf, Bradley—2. Nays, Ald. Wuerth, Schlenker, Freeman—3. Excused from voting: Ald. Sauer, Harris, Kurth—3.

Original motion was then put and lost by the following vote: Yeas, Ald. Wuerth, Sauer—2. Nays, Ald. Graf, Schlenker, Bradley, Kurth, Freeman—5. Excused from voting: Ald. Harris—1.

Moved by Ald. Sauer that the Finance Committee be authorized to see what arrangements can be made with the present auditors or some other to bring the audit of each department from the expiration of the fiscal year of each department to June 30, 1930, and report back to Council at its next meeting.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Freeman—8. Nays, none.

City Officers' Reports

Reports of Chief of Police for month of February and City Treasurer for month of January were received and summary of Treasurer's report ordered printed in minutes.

SUMMARY OF TREASURER'S REPORT
Month Ending January 31, 1930

	Receipts	Disbursements	On Hand	Overdrawn	Warrants Outstanding
Contingent Fund	\$ 206,724.68	\$ 11,111.24	\$ 19,804.64		\$ 242.78
Cemetery Sinking	1.00		809.07		
Cemetery.....	71.00	105.00	1,594.51		
Fire Department.....	6.12	5,012.57	34,127.52		183.00
Police		5,009.89	26,952.48		94.00
Poor.....		289.67	2,580.89		
Street.....	434.53	14,144.35	141.20		422.99
Park.....	75.00	4,302.67		9,912.13	143.20
Street Light.....		5,452.86	17,109.94		
Sidewalk Building.....	363.44			2,509.84	
Bridge, Culvert and Crosswalk.....		1,621.61	48,907.50		
Water Works General Fund.....	13,446.35	15,614.99		41,800.91	
Special Water Works (Completion).....					
Water Department Sinking Fund.....	4,000.00		61,707.30		
Water (Hydrant Rental, etc.).....			2,860.31		
Uncollected City Tax.....	10,802.98			62,900.95	
Delinquent Tax.....	14,975.47			139,364.35	
State County School, etc.	1,079,720.77	580,152.92	499,567.85		
Broadway Grade Separation.....			107,344.73		
Sewer Funds.....	394.11	176.74		50,756.52	
Pavement Funds.....	2,280.96	7,085.23		42,337.65	
Curb and Gutter Funds.....	576.22			28,923.46	
	<u>\$1,333,872.63</u>	<u>\$650,079.74</u>	<u>\$823,507.94</u>	<u>\$378,505.81</u>	<u>\$1,085.97</u>
Disbursements.....	650,079.74		378,505.81		
	<u>\$ 683,792.89</u>				
Overdrawn Jan. 1, 1930.....	238,790.76				
On hand Jan. 31, 1930.....	<u>\$ 445,002.13</u>		<u>\$445,002.13</u>		

Annual report of Water Department received and ordered printed in minutes.

Annual Report

of the

Water Works Department

1929

TO THE HONORABLE
THE MAYOR AND COMMON COUNCIL OF THE
CITY OF ANN ARBOR, MICHIGAN.

Gentlemen:—

The Board of Water Commissioners have the honor to present herewith the sixteenth Annual Report of the Water Works Department covering the fiscal year of February 1, 1929, to January 31, 1930.

PUMPING STATIONS:

The No. 1 Pumping Station is located about one-half mile outside the Northwest corner of the city. This station contains one electrically-driven deep well pumping unit supplying artesian water and rated for a continuous supply of 2,300,000 gallons per day (1600 gallons per minute) and two electrically-driven emergency pumping units of a total capacity of 12,000,000 gallons per day (8340 gallons per minute) and one steam-driven emergency pumping unit of 2,500,000 gallons per day capacity (1738 gallons per minute). The steam-driven unit and boiler are obsolete and of questionable value and may be safely removed upon completion of adequate reservoir capacity.

The No. 2 Montgomery Station is located at the South end of Montgomery Avenue at the West side of the city and contains one electrically-driven pumping unit supplying artesian water and rated for a continuous delivery at 3,000,000 gallons per day (2080 gallons per minute).

The No. 3 Steere Farm Pumping Station is located about three miles South of the City out State Street and contains two electrically-driven centrifugal pumping units of a total capacity of 7,250,000 gallons

per day (5000 gallons per minute) and is rated for continuous delivery at about 4,000,000 gallons per day (2780 gallons per minute).

The Montgomery Street, the No. 3 (Steere Farm) pumping stations, and the deep well pumping unit of the No. 1 Station supply only artesian water and have a total continuous rating of 9,300,000 gallons per day (6460 gallons per minute). The emergency pumping units of the No. 1 Station supply only Huron River water.

All pumping plants operated satisfactorily during the past year with the exception of Montgomery, which was out of service for a period of about one month for repairs to the centrifugal pump.

During the past year the Water Works Department installed a water level indicating device at the reservoir, which together with remote control switches for the operation of the Montgomery pumping station are electrically connected to the superintendent's office at the warehouse on Washington Street and the No. 3 Steere Farm Pumping Station. These installations placed the constant supervision of the water supply requirements and the pumping operations at the No. 3 (Steere Farm) station, where continuous attendance is available.

WATER SUPPLY:

During the past year the distribution of the water pumped to the Distribution System from the several pumping stations is as follows:

No. 3 (Steere Farm) Station	72.2%
Montgomery Station	17.9%
No. 1 Station Well	9.6%
No. 1 Station—Huron River	0.3%
	100.0%

99.7 per cent of the water pumped during the year was from artesian sources, while only 0.3 of 1 per cent was from the Huron River.

The water supply from the artesian sources requires no treatment for harmful bacteria. The water from the Huron River was treated with chlorine gas at the pumping station for the elimination of harmful bacteria. The only unprotected source of contamination of the City's water supply lies in the open reservoir on Chubb Road.

The quantity of water pumped during the year increased 5.3 per cent over that of the previous year. The average daily pumpage amounting to 4,379,890 gallons per day (3050 gallons per minute) ranging from a daily average of about 3,500,000 gallons in January, 1930, to 5,600,000 gallons in August, 1929. The maximum day's pumpage was 8,455,000 gallons on July 30, 1929, which was used at an approximate rate of 12,000,000 gallons per day in the daylight period and 4,000,000 gallons per day in the night period.

DISTRIBUTION SYSTEM:

During the past year there was 12,361 feet of six and eight-inch diameter cast iron main laid in the distribution system by the Water Works Department, replacing 5921 feet of one to two-inch wrought iron

and steel pipe mains and in meeting current extensions required to the distribution systems in the built-up sections of the city.

The water supply and pressure conditions to the high ground level districts at the West, East and North sides of the city continue to be poor, with a pressure insufficient for sprinkling purposes and with inadequate fire protection during the periods of maximum water usage in the city. The present 16-inch trunk main shows a pressure loss of 10 to 15 pounds between the reservoir and Hill Street during the winter months of minimum water usage, with the consequent greater pressure loss along this trunk main East of State Street during the summer period of maximum usage. Unless the No. 3 Pumping Station is supplying 3,500,000 gallons per day to this feeder main at the junction point with the No. 3 (Steere Farm) supply at the corner of Hill and State Street a large portion of the Eastern part of the city will likely be without water for domestic purposes because of the serious overloading of this trunk feeder main.

There is no practicable remedy for this condition other than the construction of force or feeder mains to supply these distribution districts. These force or feeder mains have been recommended by your Board of Water Commissioners and concur with the recommendations contained in the report on the Ann Arbor Water Works system by the National Board of Fire Underwriters and the special report of Maury & Gordon, Consulting Engineers, employed by the City for the study of this and other problems.

RESERVOIR:

The present uncovered cobblestone-lined earth embankment type of reservoir is unsanitary and inadequate in capacity. The working capacity of the reservoir when full is between one-fourth and one-fifth of the daily average usage of water by the city and during the period of maximum use of water during the past summer the reserve water supply in the reservoir has been less than 400,000 gallons when pumping at the rate of about 9,000,000 gallons per day.

Your Commissioners are convinced that aside from the matter of sanitary protection and keeping the water cool and unexposed to sunlight that there is urgent necessity for the immediate construction of a reservoir of not less than 6,000,000 gallons capacity to adequately protect the city from the possible catastrophe that might result through the temporary failure of the electrical supply lines to the pumping stations at a period when the city would be exposed to fires, as, for example, by a cyclone or severe sleet storm.

METERS AND SERVICES:

All customers taking water from the Water Works Department are metered. The water used for flush tanks of sewer systems, street washing, flushing mains and for fire-fighting purposes is not measured.

During the past year there were 283 new service connections and 212 new meters added to the system, and 12 new hydrants were installed. The total number of meters installed in the city is 7415. There have been some cases where one meter was used by two customers during the year, so that the number of customers' meters for the year is shown as 7491.

The maintenance of service cost shows an increase over the previous year due to the continuing departmental policy of replacing wrought iron and steel pipe services to customers with copper pipe, the whole cost of which is being charged as maintenance of services, leaving the capital investment unchanged at the original installation cost.

The cost of maintenance of meters and of hydrants is substantially the same this year as last year.

During the past year, of the total water pumped 76.2 per cent is shown on the customers' meters, leaving 23.8 per cent of the water pumped in the unmetred classification going to—

- A—Leakage from mains and services.
- B—Water for flush tanks of the sewer system.
- C—Water for street washing.
- D—Water for flushing mains.
- E—Water for fire-fighting purposes.
- F—Over-registration of the pumping station meters.
- G—Under-registration of the customers' meters.

During the previous year 28.3 per cent of the water pumped was assignable to the above classification, after correcting as nearly as may be for the overregistration of the meter at the No. 3 Pumping Station.

ACCOUNTING:

The Water Works Department is equipped with Public Utility billing machines, addressographs and the like. From the billing machine we find that the amount of water supplied to customers taking less than that supplied under the minimum charge is 4,077,100 cubic feet at an average rate of 24.6 cents per 100 cubic feet. The water supplied at 15 cents per 100 cubic feet is 30,456,600 cubic feet. The water supplied at 9 cents per 100 cubic feet is 70,075,400 cubic feet. The water supplied at 6 cents per 100 cubic feet is 58,154,200 cubic feet. The above totals are from the billing machine and shows the classification of the water supplied under the present rate schedule. As the customers' meter readings vary from one class to another during the year's period it is impossible to assign the number of customers taking water under any of the above classes; however, an analysis of the customers' records shows that more than one-quarter of the residence customers are paying the minimum rate of 50 cents a month, and that the average payment of all resident customers is less than \$1.00 a month. The rates for water in Ann Arbor are among the lowest of the municipalities of the state and are the lowest for cities of the size of Ann Arbor, and the form of the rate results in as fair a distribution of cost of the water service to the municipality as is had in any city of the state.

FINANCIAL:

The net revenue of the Water Works Department for the last fiscal year for the metered sales of water amounts to \$140,654.67, or an increase of about 11.5 per cent over the previous year, while the total operating expense of the Department (omitting depreciation) amounted to \$79,196.05, or an increase of about 11.6 per cent. The principal increase being in the cost of power and in maintenance. The increase

in cost of power is to be expected through the fact that while the actual rate of power had not increased the addition of the two pumping stations from artesian sources results in a somewhat higher actual cost of power than if supplied at one point. On the other hand, the installation of these two artesian stations has made it possible to double the available water supply of the city from artesian sources, as is being demonstrated by the fact that the entire city water supply has been obtained since December 15th from the Montgomery and No. 1 well stations without the use of any water from the river nor from the artesian supply at the No. 3 Pumping Station. During this period the pumping units at the No. 3 station have been disassembled, put in first-class operating condition and painted. The minimum operating cost of any water supply system occurs when the system supply equals the usage without any reserve for emergency or future growth, consequently the cost of power will reduce as the city's use of water increases.

The total income of the Water Department, it will be noted from the detailed accounting statement, is \$192,821.62, of which \$140,654.67 is obtained from metered sales, \$39,096.14 from the general municipal service charge, and the balance of \$13,059.42 from charges to water customers for service taps, merchandise and jobbing and the like.

It will be noted that the Water Works Department has a deficit with the City Treasurer at the end of this fiscal year of \$22,756.40, as compared with a deficit of last year of \$43,513.70. This deficit means that the Water Works Department were borrowing the City funds temporarily in these amounts. This condition occurred through the fact that the artesian water pumping stations at Montgomery and No. 1 station were constructed directly from the Water Department's revenues at a cost of about \$85,000, rather than from a bond issue, as your Commissioners had recommended, which plan would have permitted your Water Works Department to have met all operating costs, interest, payments on outstanding bond issues up to and including the period of 1935 without increase of rates nor temporary borrowing from the City funds. The construction of these pumping stations to artesian sources of water two years ago has been amply justified by the fact that almost the entire water supply of the past year was from artesian sources, and had the reservoir capacity been adequate no river water would have been used.

Your Commissioners have recommended that a new reservoir be immediately built and that trunk feeder mains be installed to supply water to the distribution systems to the sections of the city that now have inadequate pressure and fire protection and that the funds for such constructions be had from a bond issue.

Your Commissioners have given careful study to the problems of the Water Works Department and find that the need of the reservoir and trunk mains is imperative and that the funds required therefor must come either from a bond issue or through the increase of rates to the water customers. From the experience in all public utility and municipal operations the least burdensome and most equitable method of financing is through a bond issue that will spread the cost of the major additions to the water works system over a period of 20 years, thereby spreading the cost of such improvements to the future users of the improvements. Current extensions to the distribution system of a municipal water works system can best be met through current revenues, but such major additions as trunk feeder mains, reservoir, pumping

station and the like should be met through a bond issue.

Increasing revenues through the increase of rates will not yield the amount required for these improvements within a few years without excessive increase in rates, particularly to the residential customers, because in any water works system, whether municipality or privately owned, when the rate of charge to users of the large quantities of water becomes in excess of the cost of developing the water by such customers they may well provide their own pumping plants, with the result of losing the revenues from these large water users, and with the consequent result of further increasing the residential rates to make up this deficit in income to meet operating costs. Only a small part of the annual cost of a water works system is directly proportional to the amount of water pumped.

That the past plan of the financial operations of the Department of making its major additions through bond issues has been eminently fair to the customers of the city is demonstrated by the fact that while the people of this city have enjoyed the lowest of municipal water rates for a long period of time your Water Works Department has grown from a plant investment of \$450,000 in 1914, on which there was outstanding \$450,000 of bonds, to a plant of \$1,520,084.63 on which there is outstanding at the end of this fiscal year \$553,000 of bonds, and that in 1934 there will be paid the last of the original purchase bonds, so that there will be then outstanding as of January 1, 1935, \$126,000 remainder of the bond issue of the Steere Farm Plant, \$90,000 of the meter and completion of Steere Farm bonds, and \$81,000 of the purchase of water right bonds, or a total of \$297,000. Then requiring only about \$17,000 per year in sinking fund for bonds, as compared with over \$50,000 per year required at present. It is evident, therefore, that a bond issue covering the reservoir and trunk mains amounting to \$325,000 could be placed and the principal paid for in the fifteen years following 1935 without taking as much funds from revenues to be applied to the sinking fund of all the bonds then outstanding as the Water Department is now paying into the sinking fund for retirement of bonds and that water rates may then be lowered.

In conclusion, this Board expresses its appreciation of the full co-operation that is had from His Honor the Mayor, the Common Council and other city officials, and from the employees of the Water Works Department.

Attention is respectfully called to the detailed report of George S. Vandawarker, Manager, for the fiscal year, which is attached and made a part of this report.

Signed, ROBERT NORRIS

W. H. L. ROHDE,

JOHN LINDENSCHMITT,

Board of Water Commissioners.

COMPARATIVE BALANCE SHEET STATEMENT

Fiscal Year Ending January 31st, 1930

ASSETS

	1928-1929	1929-1930
Fixed Capital	\$1,476,709.77	\$1,520,084.68
Current Assets	2,247.04	15,194.80
Sinking Funds	55,903.63	53,988.63
Special Funds		
	<u>\$1,534,860.44</u>	<u>\$1,589,268.11</u>

LIABILITIES

City Equity	\$ 573,315.72	\$ 630,110.33
Long Term Debt	595,000.00	553,000.00
Current and Accrued Liabilities	26,301.86	24,501.21
Sinking Fund Reserves	64,914.75	66,758.93
Retirement Reserves (Depreciation)	180,170.02	212,642.29
Contributions to Extensions (i.e., Water Main Subdivision Footage)	95,158.09	102,255.35
	<u>\$1,534,860.44</u>	<u>\$1,589,268.11</u>

COMPARATIVE OPERATING STATEMENT

	1928	1929
Income from Sales of Water	\$127,969.26	\$140,654.67
Operating Expense—		
Production	28,821.24	37,822.34
Distribution	3,322.96	4,355.75
Utilization	13,306.33	13,754.74
Commercial	7,602.86	7,065.01
General and Miscellaneous	15,071.95	16,198.21
Depreciation	31,348.93	35,890.91
	<u>\$ 99,474.27</u>	<u>\$115,086.96</u>

INCOME STATEMENTS

	1928-1929	1929-1930
Operating Revenue (Sales and Miscellaneous)	\$182,496.72	\$192,821.62
Less Total Revenue Deductions (above)	99,474.27	115,086.96
Operating Income	<u>\$ 83,022.45</u>	<u>\$ 77,734.66</u>
Miscellaneous Income (from Special Funds) ..	1,252.20	1,566.92
Gross Department Income	<u>\$ 84,274.65</u>	<u>\$ 79,301.58</u>
Deductions from Gross Income	28,528.54	25,975.00
Net Income	<u>\$ 55,746.11</u>	<u>\$ 53,326.58</u>
Less Income Appropriated to Sinking Fund	47,323.54	47,855.32
Balance Carried to City Equity	<u>\$ 8,422.57</u>	<u>\$ 5,471.26</u>

COMPARATIVE STATISTICS

	1928-1929	1929-1930
Estimated population served	35,000	35,000
Meters added during year	202	288
Total meters in use	7,203	7,491
Fire hydrants added during year	7	12
Fire hydrants on system	386	398
Miles of cast iron water mains laid during year	2.78	2.34
Total miles of cast iron water mains	85.07	87.41
Total gallons of water pumped during year	1,522,131,000	1,598,660,000
River water pumped	45,346,000	4,478,000
Artesian water pumped	1,476,785,000	1,594,182,000
Gallons sold by meter	1,090,247,400	1,217,469,484
Gallons water, fire service, flush tanks, leak- age and unaccounted for	431,883,600	381,190,516
Revenues—water per capita	\$3.66	\$4.02
Revenues—water per meter	\$17.77	\$18.77

OPERATING STATEMENT YEAR ENDING JAN. 31st, 1930

OPERATING EXPENSE

PRODUCTION		\$ 37,822.34
Electric Power Pumping Station No. 1	\$ 1,914.20	
Maintenance, Buildings and Fixtures	555.40	
Maintenance, Electric Pumping Equipment	497.66	
Maintenance, Miscellaneous Equipment	4.15	
Electric Power Pumping Station No. 3	4,988.17	
Maintenance, Buildings and Fixtures	426.81	
Maintenance, Electric Pumping Equipment	18.19	
Maintenance, Miscellaneous Equipment	43.06	
Electric Power Pumping Montgomery Well ..	1,108.59	
Maintenance, Electric Equipment	966.38	
Power Purchased Station No. 1	6,095.93	
Power Purchased Station No. 3	12,911.93	
Power Purchased Montgomery Well	7,451.87	
Purification Station No. 1	840.00	
DISTRIBUTION		4,355.75
Transmission and Distribution Expense	1,200.00	
Storage Reservoir	240.00	
Maps and Records	131.10	
Removing and Resetting Meters	2,784.65	
UTILIZATION		13,754.74
Maintenance of Transmission Mains	0.00	
Maintenance of Storage Reservoir	65.31	
Maintenance of Distribution Mains	726.80	
Maintenance of Services	9,421.46	
Maintenance of Meters	2,293.53	
Maintenance of Hydrants	1,247.64	
COMMERCIAL		7,065.01
Meter Reading	1,920.00	
Consumers' Accounts	4,560.00	
Supplies and Expenses	585.01	

GENERAL AND MISCELLANEOUS		16,198.21
General Office	3,208.32	
Administrative	7,175.49	
Insurance	1,092.05	
Store Expense (Warehouse)	2,328.49	
Maintenance of Store Department	27.88	
Transportation Expense	2,056.89	
Undistributed Adjustments	309.09	
DEPRECIATION		35,890.91
Retirement Expense	35,890.91	
Total Operating Expenses		<u>\$115,086.96</u>

INCOME STATEMENTS

OPERATING REVENUE

Metered Sales	\$140,654.67	
Flat Rate	1,105.63	
General Municipal Service	39,096.14	
Forfeited Discount	839.20	
Merchandise and Jobbing	1,034.02	
Repairing Meters	1,274.35	
Service Taps	8,817.61	
Total Operating Revenue		\$192,821.62
Less Total Revenue Deductions) (Operating Expense)		<u>115,086.96</u>
Operating Income		\$ 77,734.66
Income from Special Funds		<u>1,566.92</u>
Gross Department Income ...		\$ 79,301.58
Deductions from Gross Income		
Uncollectible Bills	\$ 1,140.60	
Interest on Bonds	24,821.81	
Miscellaneous Interest	12.59	25,975.00
Net Income		<u>\$ 53,326.58</u>
Less Income Appropriated to Sinking Fund		<u>47,855.32</u>
Balance Carried to City Equity		<u>\$ 5,471.26</u>

BALANCE SHEET STATEMENT YEAR ENDING JAN. 31st, 1930

ASSETS

Fixed Capital—

Land	\$110,950.85
Structures	256,794.11
Boiler Plant Equipment	3,278.67
Steam Power Pumping Equipment	9,487.08
Electric Power Pumping Equipment	27,697.61
Miscellaneous Pumping Equipment	2,371.22
Purification System	3,813.17
Transmission Mains	224,967.54
Distribution Mains	546,002.71

Services	138,060.30	
Flush Tanks	2,706.09	
Consumers' Meters	102,158.06	
Consumers' Meters Installation	12,031.47	
Hydrants	37,920.28	
General Equipment	34,105.88	
Miscellaneous Construction Expenditures ..	7,739.64	\$1,520.084.68

Current Assets—

Cash	\$ 864.71	
City Treasurer	(Overdrawn) 22,756.40	
Accounts Receivable	16,371.80	
Materials and Supplies	19,641.22	
Prepayments		
Insurance	\$420.17	
Fuel	653.30	1,073.47
		15,194.80

Sinking Funds (available for bond redemption)—

Uninvested	\$ 48,238.63	
Invested in Municipal Bonds	5,750.00	53,988.63
Total Assets		\$1,589,268.11

LIABILITIES**City Equity—**

Surplus as Adjusted to Agree with Audit, January 31st, 1929	\$574,620.64	
Return of Sinking Fund Reserve Cover- ing Bonds Retired During 1929	42,000.00	
Return of Investment Bonds Redeemed August 1st, 1929	7,915.00	
Net Income Balance for January 31st, 1929	5,471.26	
Miscellaneous Profit and Loss Credit Balance	103.43	\$ 630,110.33

Long Term Debt—

Bonds Payable		
First Issue, Original Purchase	\$181,000.00	
Second Issue, Special	171,000.00	
Third Issue, Meters and Completion ...	120,000.00	
Fourth Issue, Water Rights	81,000.00	553,000.00

Current and Accrued Liabilities—

Accounts Payable	\$ 6,512.36	
Consumers' Deposits	9,585.00	
Interest Accrued on Funded Debt	8,403.85	24,501.21

Sinking Fund Reserves—

A - For Invested and Uninvested Bond Retirement	49,988.63	
B - For Prepaid General Municipal Service	16,770.30	

Retirement Reserve from Depreciation	212,642.29	
Contributions to Extensions (i. e. Water Main		
• Subdivision Footage	102,255.35	381,656.57
		<hr/>
Total Liabilities and Net Worth		\$1,589,268.11

BONDS ISSUED AND PAID

Original Purchase Bonds	Issued 1913	\$450,000.00	
Steere Bonds	Issued 1914	10,000.00	
Special Water Works Bonds	Issued 1918	200,000.00	
Special Water Works Bonds	Issued 1919	45,000.00	
Meter Bonds	Issued 1919	75,000.00	
Water Rights Bonds	Issued 1920	50,000.00	
Water Rights Bonds	Issued 1920	10,000.00	
Water Rights Bonds	Issued 1921	6,500.00	
Water Rights Bonds	Issued 1924	3,000.00	
Water Rights Bonds	Issued 1925	6,500.00	
Water Rights Bonds	Issued 1926	5,000.00	\$ 861,000.00
		<hr/>	
Bonds Presented and Paid—1920		\$ 24,000.00	
Bonds Presented and Paid—1921		25,000.00	
Bonds Presented and Paid—1922		26,000.00	
Bonds Presented and Paid—1923		26,500.00	
Bonds Presented and Paid—1924		28,500.00	
Bonds Presented and Paid—1925		27,000.00	
Bonds Presented and Paid—1926		28,000.00	
Bonds Presented and Paid—1927		30,000.00	
Bonds Presented and Paid—1928		51,000.00	
Bonds Presented and Paid—1929		44,000.00	310,000.00
		<hr/>	<hr/>
Balance Unpresented			\$551,000.00

Of \$85,000.00 Water Rights Bonds authorized, there still remain unsold \$4,000.00.

The eleventh issue of Original Purchase Bonds, issued in 1913, amounting to \$34,000.00, will be retired during February. The money for this purpose has been carried during its accrual at a Deferred Charge, i. e., Uninvested Sinking Fund Account.

CANCELLATION OF WATER BONDS

Purchase of Plant

Year Due	Clerk's No.	No. of Bonds	Amount	
1920	1- 44	44	\$ 22,000.00	Paid
1921	45- 90	46	23,000.00	Paid
1922	91-138	48	24,000.00	Paid
1923	139-188	50	25,000.00	Paid
1924	189-240	52	26,000.00	Paid
1925	241-294	54	27,000.00	Paid
1926	295-350	56	28,000.00	Paid
1927	351-410	60	30,000.00	Paid
1928	411-472	62	31,000.00	Paid
1929	473-538	66	33,000.00	Paid
1930	539-606	68	34,000.00	
1931	607-676	70	35,000.00	
1932	677-748	72	36,000.00	

1933	749-822	74	37,000.00
1934	823-900	78	39,000.00
<hr/>		<hr/>	<hr/>
15 years		900	\$450,000.00

Plant at Steere Farm
(Bond Issue for 10 years)

Original \$200,000.00 all due July 1st, 1928. \$20,000.00 of this issue was paid and \$180,000.00 Refunding Serial Bonds re-issued, becoming due at the rate of \$9,000.00 per year for 20 years. \$9,000.00 on this issue was paid in 1929.

The issue of bonds for \$45,000.00 known as Completion of Steere Farm Bonds and the issue of \$75,000.00 Meter Bonds all became due August 1st, 1929. These bonds were retired by floating a new issue for \$120,000.00 known as the Water Works Completion and Meter Refunding Bonds. These are serial bonds coming due at the rate of \$6,000 per year over a period of 20 years.

Purchase of Water Rights—Steere Farm
(Bond Issue for 15 years)

\$81,000.00 sold. \$4,000.00 unsold. All due May 15, 1935.

WATER PUMPED FROM FEB. 1st, 1928 TO FEB. 1st, 1929

	Sta. No. 1 River	Sta. No. 1 Well	Montgomery Well	Sta. No. 3
February	7,281,000			105,391,000
March	9,063,000			113,422,000
April	9,636,000			108,599,000
May	22,021,000			115,006,000
June	11,923,000			110,022,000
July	23,168,000			113,042,000
August	12,541,000		20,225,000	111,590,000
September		7,425,000	6,804,000	109,771,000
October	3,888,000	20,567,000	3,794,000	111,489,000
November		19,302,000	4,282,000	101,431,000
December	606,000	11,907,000	450,000	109,671,000
January		10,090,000	2,419,000	105,301,000

	Total	Aver. Daily Pumpage	Aver. Daily Per Capita
February	112,672,000	3,885,241	111
March	122,486,000	3,951,161	113
April	118,236,000	3,941,200	113
May	137,027,000	4,420,226	126
June	121,945,000	4,063,833	116
July	136,210,000	4,393,871	157
August	144,356,000	4,656,645	166
September	124,001,000	4,133,367	148
October	139,738,000	4,507,677	129
November	125,015,000	4,167,167	119
December	122,635,000	3,955,968	113
January	117,810,000	3,800,322	109
Total	1,522,131,000		

WATER PUMPED FROM FEB. 1st 1929 TO FEB. 1st, 1930

	Sta. No. 1 River	Sta. No. 1 Well	Montgomery Well	Sta. No. 3
February		8,480,000		98,459,000
March		17,847,000		113,590,000
April		12,506,000		108,983,000
May		18,045,000		113,309,000
June		17,218,000	17,255,000	108,970,000
July		8,740,000	32,095,000	109,739,000
August		18,203,000	43,143,000	112,085,000
September	4,478,000	20,686,000		108,665,000
October		10,783,000	17,864,000	114,355,000
November		9,087,000	17,249,000	109,731,000
December		3,964,000	59,353,000	56,920,000
January		7,477,000	99,381,000	

	Total	Aver. Daily Pumpage	Aver. Daily Per Capita
February	106,939,000	3,819,250	109
March	131,437,000	4,239,903	121
April	121,489,000	4,049,633	116
May	131,354,000	4,237,226	121
June	143,443,000	4,781,433	137
July	150,574,000	4,857,226	173
August	173,431,000	5,594,548	200
September	133,829,000	4,460,967	159
October	143,002,000	4,612,968	132
November	136,067,000	4,535,567	130
December	120,237,000	3,878,613	111
January	106,858,000	3,447,032	98

1,598,660,000

Population—During months of February, March, April, May,
June, October, November, December and January 35,000
During months of July, August and September..... 28,000

METERS IN USE

Kind	Size								Total
	5/8 in.	3/4 in.	1 in.	1 1/2 in.	2 in.	3 in.	4 in.	6 in.	
Trident	6642	336	217	57	97	30	20	8	7407
Empire	3								3
Lambert	4								4
Crown							1		1
	6649	336	217	57	97	30	21	8	7415

WATER MAINS IN THE CITY

	20 in.	16 in.	14 in.	12 in.	10 in.	8 in.
1928	17694	26223	5584	24136	4291	18166
Out in 1929						
Laid in 1929						523
	17694	26223	5584	24136	4291	18689

METER RATES

For the first 1500 cubic feet (11,250 gallons) per quarter year, supplied through a single meter, the rate shall be 15 cents per 100 cubic feet (20 cents per 1,000 gallons).

For the next 98,500 cubic feet (738,750 gallons) per quarter year, through a single meter, the rate shall be 9 cents per 100 cubic feet (12 cents per 1,000 gallons).

For all in excess of 100,000 cubic feet (750,000 gallons) per quarter year, through a single meter, the rate shall be 6 cents per 100 cubic feet (8 cents per 1,000 gallons.)

A discount of 10 per cent on all bills rendered at the above rates shall be allowed when bills are paid on or before the tenth of the month in which they are due.

A minimum charge of \$1.50 shall be made to each customer whose net bill for the quarter year is less than this amount.

EXTENSIONS

- 702 feet of 6-inch on Daniel St. from Summit St. to Walnut St.
- 582 feet of 6-inch on E. Madison St. from S. Fifth Ave. to Packard.
- 546 feet of 6-inch on Abbott Ave. from Grand View Drive to Glendale Drive.
- 563 feet of 6-inch on Plum St. from Pear St. to Traver St.
- 600 feet of 6-inch on Walnut St. from Geddes Ave. to S. University.
- 462 feet of 6-inch on Linden from S. University Ave. to Geddes Ave.
- 353 feet of 6-inch on Roosevelt St. from Forest Ave. to Church St.
- 655 feet of 6-inch on Willard St. from Forest Ave. to E. University.
- 12 feet of 6-inch on Grand View to extend main.
- 36 feet of 6-inch on Mack Road from Elm St. toward Wilmot St.
- 375 feet of 6-inch on Mack Road from Wilmot St. to Elm St.

WATER MAINS IN THE CITY

	6 in.	4 in.	2 in.	1½ in.	1¼ in.	1 in.	¾ in.
1928	332590	220232	3930	1539	2063	4966	43
Out in 1929			2092	1404	1526	899	
Laid in 1929	11838						
	344428	20232	1838	135	537	4067	43

736 feet of 6-inch on Wilmot St. from Elm St. to Washtenaw Ave. to replace 1-inch line.

696 feet of 6-inch on Catherine St. from Glen Ave. to Ingalls St.

24 feet of 6-inch on Mary St. from Hoover Ave. (paving).

312 feet of 6-inch on Longman Lane, to connect dead end at north with Fairview Ave.

684 feet of 6-inch on Hutchins Ave. from Pauline Blvd. to Davis Ave.

437 feet of 6-inch on Robin Road from Brooks St. to Minglewood Way.

488 feet of 6-inch on Vesper Road from Brooks St. to Minglewood Way.

709 feet of 6-inch on Minglewood Way from Vesper Rd. to Robin Rd.

552 feet of 6-inch on Maynard St. from Liberty St. to Williams St.

312 feet of 6-inch on Wakefield west from Soule Blvd.

390 feet of 6-inch on Felch St. from Spring St. to Fountain St.

592 feet of 6-inch on Fountain St. from Summit St. to Hiscock St.

747 feet of 6-inch on Fountain St. north from Sunset Road.

265 feet of 6-inch and

100 feet of 8-inch on E. Summit St. from Beakes St. to Hotel St.

223 feet of 8-inch on Miller Ave. west from end of main 168 feet west of last hydrant in front of Miller Ave. School.

200 feet of 8-inch on Hotel St. from Summit St. to Depot St.

NEW CONNECTIONS

283 new service connections

12 new hydrants installed

Respectfully submitted,

WATER WORKS DEPT OF THE CITY OF ANN ARBOR,

By Geo. S. Vandawarker, Manager.

Ald. Freeman spoke relative to complaints being received by him relative to dangerous condition of crossing tracks of the Ann Arbor Railroad on Hoover Avenue, and Ald. Kurth spoke relative to like condition in Fifth Ward.

Moved by Ald. Freeman that matter be referred to City Engineer and City Attorney, with power to act.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Freeman—8. Nays, none.

On motion of Ald. Harris, Council adjourned.

FRED C. PERRY,
City Clerk.