	COMMON COUNCIL—F
	Council Chamber, Ann Arbor, Mich., Feb. 16, 1920. Regular
	Session. Meeting called to order by Pres.
	Meeting called to order by Pres. Lewis. Present: Ald. Heusel, Mayer, Donnelly, Spathelf, Moore, Free- man, Lutz, Reichert, Pres. Lewis,
	9. Absent: Ald. Sugden, Ehnis, Prochnow, Henderson, MacGregor
	5. Minutes of previous meeting approved.
	Communications
	From the Mayor.
	Feb. 16, 1920. To the Honorable, the Common
	Council, Gentlemen: I hereby an-
	nounce the appointment of Carl
	Arnold and Robert Clark as patrolmen.
	Respectfully yours,
	ERNST M. WURSTER, Mayor. Ordered on file.
	From Water Commissioners.
	Feb. 16, 1920.
	To the Honorable Common Coun-
	cil, of the City of Ann Arbor, Mich. Gentlemen: This Department has
	placed the salaries of the employes
	of the Water Department per
	month as follows and respectfully
r	ask your confirmation of the same, to take effect Feb. 1st, 1920.
	Harry Willsher, \$117.50; Henry
	Walters, 99.88; Wm. Walters,
	\$88.13; Emanuel Sodt, \$141.00;
	Fred Linde, \$117.50; John Volland, \$88.13: John Schwikart \$88.13
	\$88.13; John Schwikart, \$88.13 Leslie Bush, \$117.50; Norman Rows, \$94.00; Robert Young, \$88.13; Arthur Hawkes, \$99.88;
	Rows, \$94.00; Robert Young,
	\$88.13; Arthur Hawkes, \$99.88;
	Clifford Shetterly, \$141.00; Louise Malloy, \$99.88; Russell Pryce,
	\$99.88 George S. Vandawarker,
	\$99.88 George S. Vandawarker, \$208.33; R. Spokes, \$208.33.
	Respectfully submitted, Geo. J. Mann, John Lindenschmitt, Wirt
	Cornwell, Water Commissioners.
	Referred to Water and Finance
	Committees
	Enter Ald. Prochnow. Communication from Ann Arbor
	Community Federation, requesting
	renewal of appropriation of \$600.00
	for Community House and \$200.00
	to help support work of City Visitor, received and referred to Fin-
	ance Committee.
	Committee Reports. Finance Report.
	Finance Report. Fire Fund
	Chas. Andrews, salary
	Eugene Williams, salary 64.83

COMMON COUNCIL—I	FEBRUARY 16, 1920. 277
Council Chamber, Ann Arbor, Mich., Feb. 16. 1920. Regular Session. Meeting called to order by Pres. Lewis. Present: Ald. Heusel, Mayer, Donnelly, Spathelf, Moore, Freeman, Lutz, Reichert, Pres. Lewis, 9. Absent: Ald. Sugden, Ehnis, Prochnow, Henderson, MacGregor 5. Minutes of previous meeting approved.	Harley Wise, salary 58.91 Frank Markey, salary 58.91 Herman Kruse, salary 58.91 Emil Dammin, salary 58.91 Matt Heininger, salary 58.91 Raymond Gillespie, salary 58.91 Floyd Naylor, salary 58.91 Earl Arnold, salary 58.91 Claud Cobb, salary 58.91 Fred Nordman, salary 58.91 Fred Nordman, salary 58.91 Henry Nevroth, salary 58.91 Henry Nevroth, salary 54.68
Communications	Fire Fund total salaries 1/2
From the Mayor.	month Feb
Feb. 16, 1920.	Thos. O'Brien, salary 87.50
To the Honorable, the Common Council, Gentlemen: I hereby an-	Wm. Aprill, salary 68.75
nounce the appointment of Carl	Ed Blumhart, salary68.75Frank Keihl, salary68.75
Arnold and Robert Clark as patrol-	Marlend Howard, salary 68.75
men.	Fred Sodt, salary 68.75
Respectfully yours,	Clyde Bennett, salary 68.75
ERNST M. WURSTER, Mayor.	Chas Splitt, salary 68.75 Joseph Gast, salary 68.75
Ordered on file.	Frank Marz, salary 68.75
From Water Commissioners.	Geo. Randel, salary 68.75
Feb. 16, 1920.	Chas. Harden, salary 68.75 Carl Arnold, salary 29.19
To the Honorable Common Coun-	
cil, of the City of Ann Arbor, Mich. Gentlemen: This Department has	Police Fund total salaries ½ month Feb
placed the salaries of the employes	Ernest Casterline, special 45.00
of the Water Department per	
month as follows and respectfully	Police Fund total\$917.94 Contingent Fund
ask your confirmation of the same,	M. C. Ryan, salary ½ month\$58.91
to take effect Feb. 1st, 1920. Harry Willsher, \$117.50; Henry	Engineer Dept.
Walters, 99.88; Wm. Walters,	Alfred Brown, services 1.00 James Mason, services 1.00
\$88.13; Emanuel Sodt, \$141.00;	Vernor McAdam, services 2.50
Fred Linde, \$117.50; John Volland,	H. R. Scovill, services 75.00
\$88.13; John Schwikart, \$88.13	Total Engineer Dept\$79.50
Leslie Bush, \$117.50; Norman	The Detroit Edison Co., city hall \$ 35.05
Rows, \$94.00; Robert Young,	Washtenaw Gas Co., city hall 4.71 Federation of Charities appro.
\$88.13; Arthur Hawkes, \$99.88; Clifford Shetterly, \$141.00; Louise	community house 50.00
Malloy, \$99.88; Russell Pryce,	Emily Zeeb, services
\$99.88 George S. Vandawarker,	The Christian Mack Agency insurance
\$208.33; R. Spokes, \$208.33.	Standard Oil Co., coupon books 20.00
Respectfully submitted, Geo. J.	The Goodyear Drug Co., supplies 25.00
Mann, John Lindenschmitt, Wirt	The Mayer-Schairer Co., supplies 7.30 Geo. Wahr, supplies 8.55
Cornwell, Water Commissioners. Referred to Water and Finance	The Ann Arbor Times News
Committees.	Printing
Enter Ald. Prochnow.	age and repairs 12.20
Communication from Ann Arbor	
Community Federation, requesting	Total supplies, etc\$509.66
renewal of appropriation of \$600.00	Contingent Fund total in-
for Community House and \$200.00	cluding salary\$648.07
to help support work of City Vis-	Street Lighting The Detroit Edison Co., light\$1,466.14
itor, received and referred to Finance Committee.	Water Works Fund
Committee Reports.	Harry Willsher, salary
Finance Report.	Wm. Walters, salary
Fire Fund	Emanuel Sodt, salary
Chas. Andrews, salary\$76.65 Eugene Williams, salary 64.83	Fred Linde, salary 50.00
Ralph Edwards, salary 64.83	John Volland, salary37.50John Schwikart, salary37.50
Henry McLaren, salary 61.50	Leslie Bush, falary 50.00
Jacob Gwinner, salary 61.50	Norman Rowe, salary 40.00
Market Company and Company	

	COMMON COUNCIL
Robt Young	salary 37.50
A. E. Hawkes.	salary
Cliff Shetterly	7, salary 60.00 , salary 42.50
Louise Malloy	, salary 42.50
Russell Pryce,	salary 42.50
Total semi-n	nonthly salaries\$630.00
ing services	lison Co., thaw-
Crana Co sur	\$30.00 plies249.07
Schumacher &	Backus, supplies 2.34
Dawson Bros,	supplies 16.80 o., freight 85.36
M. C. R. R. C.	o., freight 85.36
Washtenaw El	ectric Shop, sup-
Fherbach & So	on Co., supplies 2.10
Jas. B. Clow &	Sons Co., supplies 71.25
Hutzel & Co.,	setting meter 1.75
John Moore, s	upplies 2.50
G. E. Washing	gion, supries 1.50
The Mayer-Sch	hairer Co., supplies 76.25 pplies 1.00
E G Mann i	nsurance 63.50
Cole & Huss.	insurance 63.50
John R. Miner	nsurance 63.50 insurance 63.50 insurance 15.00 er, insurance 354.16 ray, insurance 63.50
F. T. McOmbe	er, insurance354.16
Wm. H. Muri	ray, insurance 63.50
Clyde Apple, Works	hauling coal 39.70 Dept. expenses 6.13
Supplies, etc	\$1.146.11
Wm. Groves 1	abor 40.00
F. Rhodenbeck	abor
J. Nimz, labor	22.50
Total labor	92.20
Water Work	s Fund total,
including :	salaries\$1,868.31
including : Special V Holland, Acker	salaries\$1,868.31 Vater Works Fund man & Hollands
including : Special V Holland, Acker	salaries\$1,868.31 Vater Works Fund man & Hollands
including : Special V Holland, Acker contract C. H. Major &	salaries \$1,868.31 Vater Works Fund man & Hollands \$60.78 Co., supplies 17.50
including : Special V Holland, Acker contract C. H. Major &	salaries\$1,868.31 Vater Works Fund man & Hollands
Special V Holland, Acker contract C. H. Major & L. E. Wenzel,	salaries \$1,868.31 Vater Works Fund
including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total	salaries \$1,868.31 Vater Works Fund \$60.78 man & Hollands \$60.78 Co., supplies 17.50 supplies 2.50 er Works fund \$80.78
including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total John Davis, 1	salaries \$1,868.31 Vater Works Fund \$60.78 man & Hollands \$60.78 Co., supplies 17.50 supplies 2.50 r Works fund \$80.78 Park Fund \$23.20
including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total John Davis, 1	salaries \$1,868.31 Vater Works Fund \$60.78 man & Hollands \$60.78 Co., supplies 17.50 supplies 2.50 r Works fund \$80.78
including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total John Davis, I Lyle E. Davis, Park Fund	salaries \$1,868.31 Vater Works Fund \$60.78 man & Hollands \$60.78 Co., supplies 17.50 supplies 2.50 r Works fund \$80.78 Park Fund \$23.20 labor 4.00 total labor \$27.20
including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total John Davis, 1 Lyle E. Davis, Park Fund (8)	salaries \$1,868.31 Vater Works Fund \$60.78 man & Hollands \$60.78 Co., supplies 17.50 supplies 2.50 r Works fund \$80.78 Park Fund \$23.20 labor 4.00 total labor \$27.20 treet Fund
including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total John Davis, 1 Lyle E. Davis, Park Fund to S Chris Allmend	salaries \$1,868.31 Vater Works Fund \$60.78 man & Hollands \$60.78 Co., supplies 17.50 supplies 2.50 r Works fund \$80.78 Park Fund \$23.20 labor 4.00 total labor \$27.20 treet Fund \$26.85
including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total John Davis, 1 Lyle E. Davis, Park Fund to S Chris Allmend L. G. Bird, lat	salaries \$1,868.31 Vater Works Fund \$60.78 man & Hollands \$17.50 Co., supplies 2.50 r Works fund \$80.78 Park Fund \$23.20 labor \$27.20 total labor \$27.20 treet Fund \$26.85 bor 56.65
including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total John Davis, 1 Lyle E. Davis, Park Fund to S Chris Allmend L. G. Bird, lal Alfred Brown, Jno. Gross, lal	salaries \$1,868.31 Vater Works Fund \$60.78 Co., supplies 17.50 supplies 2.50 r Works fund \$80.78 Park Fund \$23.20 labor 4.00 total labor \$27.20 treet Fund inger, labor 56.65 labor 21.50 bor 22.50
including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total John Davis, I Lyle E. Davis, Park Fund & Chris Allmend L. G. Bird, lal Alfred Brown, Jno. Gross, lal Fred G. Hanse	salaries \$1,868.31 Vater Works Fund \$60.78 Co., supplies 17.50 supplies 2.50 r Works fund \$80.78 Park Fund \$23.20 labor 4.00 total labor \$26.85 bor 56.65 labor 21.50 bor 22.50 clman, labor 48.75
including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total John Davis, I Lyle E. Davis, Park Fund & Chris Allmend L. G. Bird, lal Alfred Brown, Jno. Gross, lal Fred G. Hanse	salaries \$1,868.31 Vater Works Fund \$60.78 Co., supplies 17.50 supplies 2.50 r Works fund \$80.78 Park Fund \$23.20 labor 4.00 total labor \$26.85 bor 56.65 labor 21.50 bor 22.50 clman, labor 48.75
including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total John Davis, I Lyle E. Davis, Park Fund of Chris Allmend L. G. Bird, lal Alfred Brown, Jno. Gross, lal Fred G. Hanse Hilly Hughbar Sam. Kalmbach	salaries \$1,868.31 Vater Works Fund \$60.78 Co., supplies 17.50 supplies 2.50 r Works fund \$80.78 Park Fund \$23.20 labor 4.00 total labor \$26.85 bor 56.65 labor 22.50 elman, labor 48.75 nks, labor 22.50 n, labor 3.50
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including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total John Davis, I Lyle E. Davis, Park Fund t S Chris Allmend L. G. Bird, lal Alfred Brown, Jno. Gross, lal Fred G. Hanse Hilly Hughbar Sam. Kalmback Matt Koch, lal Fred Malke, I James Mason, W. H. Romig,	salaries \$1,868.31 Vater Works Fund \$60.78 man & Hollands \$7.50 Co., supplies 2.50 r Works fund \$80.78 Park Fund \$23.20 labor \$27.20 treet Fund \$27.20 inger, labor \$26.85 bor 56.65 labor 21.50 bor 22.50 man, labor 48.75 nks, labor 22.50 n, labor 3.50 bor 15.75 abor 22.50 labor 39.50 labor 15.60
including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total John Davis, I Lyle E. Davis, Park Fund t S Chris Allmend L. G. Bird, lal Alfred Brown, Jno. Gross, lal Fred G. Hanse Hilly Hughbar Sam. Kalmbach Matt Koch, lal Fred Malke, I James Mason, W. H. Romig, Geo. Zifle, lal	salaries \$1,868.31 Vater Works Fund \$60.78 Co., supplies 17.50 supplies 2.50 r Works fund \$80.78 Park Fund \$23.20 total labor \$27.20 treet Fund \$26.85 bor 56.65 labor 22.50 dman, labor 48.75 nks, labor 22.50 bor 15.75 abor 22.50 labor 39.50 labor 15.60 por 22.05
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including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total John Davis, I Lyle E. Davis, Park Fund of S Chris Allmend L. G. Bird, lal Alfred Brown, Jno. Gross, lal Fred G. Hanse Hilly Hughbar Sam. Kalmbach Matt Koch, lal Fred Malke, I James Mason, W. H. Romig, Geo. Zifle, lat Jacob Young, Street Fund RECA Contingent Fire	salaries \$1,868.31 Vater Works Fund \$60.78 Co., supplies 17.50 supplies 2,50 r Works fund \$80.78 Park Fund \$23.20 labor \$23.20 total labor \$27.20 treet Fund \$26.85 bor 56.65 labor 21.50 dman, labor 48.75 nks, labor 22.50 labor 350 bor 22.50 labor 39.50 labor 39.50 labor 22.05 team 9.78 total labor \$327.43 APITULATION \$648.07 1,032.00
including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total John Davis, I Lyle E. Davis, Park Fund to S Chris Allmend L. G. Bird, lal Alfred Brown, Jno. Gross, lal Fred G. Hanse Hilly Hughbar Sam. Kalmbach Matt Koch, lal Fred Malke, I James Mason, W. H. Romig, Geo. Zifle, lal Jacob Young, Street Fund RECA Contingent Fire Police	salaries \$1,868.31 Vater Works Fund \$60.78 Co., supplies 17.50 supplies 2,50 r Works fund \$80.78 Park Fund \$23.20 labor \$23.20 total labor \$27.20 treet Fund \$26.85 bor 56.65 labor 21.50 bor 22.50 dlman, labor 48.75 nks, labor 22.50 labor 35.0 bor 15.75 abor 22.50 labor 39.50 labor 39.50 team 9.78 total labor \$327.43 APITULATION \$648.07 1,032.00 917.94
including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total John Davis, I Lyle E. Davis, Park Fund to S Chris Allmend L. G. Bird, lal Alfred Brown, Jno. Gross, lal Fred G. Hanse Hilly Hughbar Sam. Kalmbach Matt Koch, lal Fred Malke, I James Mason, W. H. Romig, Geo. Zifle, lat Jacob Young, Street Fund RECA Contingent Fire Police Street Lighting	salaries \$1,868.31 Vater Works Fund \$60.78 Co., supplies 17.50 supplies 2,50 r Works fund \$80.78 Park Fund \$23.20 labor \$27.20 treet Fund \$27.20 treet Fund \$26.85 bor 56.65 labor 21.50 bor 22.50 alabor 35.00 bor 15.75 abor 22.50 labor 39.50 labor 39.50 labor 39.50 labor 39.78 total labor \$327.43 APITULATION \$648.07 1,032.00 917.94 2 1,466.14
including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total John Davis, I Lyle E. Davis, Park Fund t S Chris Allmend L. G. Bird, lal Alfred Brown, Jno. Gross, lal Fred G, Hanse Hilly Hughbar Sam. Kalmback Matt Koch, lal James Mason, W. H. Romig, Geo. Zifle, lat Jacob Young, Street Fund REC. Contingent Fire Police Street Lighting Water Works	salaries \$1,868.31 Vater Works Fund \$60.78 Co., supplies 17.50 supplies 2,50 r Works fund \$80.78 Park Fund \$23.20 labor \$27.20 treet Fund \$27.20 treet Fund \$26.85 bor 56.65 labor 21.50 bor 22.50 clabor 3.50 bor 15.75 abor 22.50 labor 39.50 labor 39.50 labor 39.50 labor 39.78 total labor \$327.43 APITULATION \$648.07 1,032.00 917.94 2 1,466.14 1,868.31
including Special V Holland, Acker contract C. H. Major & L. E. Wenzel, Special Wate total John Davis, I Lyle E. Davis, Park Fund t S Chris Allmend L. G. Bird, lal Alfred Brown, Jno. Gross, lal Fred G, Hanse Hilly Hughbar Sam. Kalmback Matt Koch, lal James Mason, W. H. Romig, Geo. Zifle, lat Jacob Young, Street Fund REC. Contingent Fire Police Street Lighting Water Works Special Water	salaries \$1,868.31 Vater Works Fund \$60.78 Co., supplies 17.50 supplies 2,50 r Works fund \$80.78 Park Fund \$23.20 labor \$27.20 treet Fund \$27.20 treet Fund \$26.85 bor 56.65 labor 21.50 bor 22.50 alabor 35.00 bor 15.75 abor 22.50 labor 39.50 labor 39.50 labor 39.50 labor 39.78 total labor \$327.43 APITULATION \$648.07 1,032.00 917.94 2 1,466.14

Street	327.43
Total City Funds	1920.

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 knowl-

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. 16, 1920. We recommend that same be approved and that warrants be ordered drawn for the foregoing accounts.

GEO. LUTZ, O. R. MAYER,

Finance Committee.

Ald. Lutz moved the adoption of report, which was adopted by following vote:

Yeas, Ald. Heusel, Mayer, Prochnow, Donnelly, Spathelf, Freeman, Lutz, Reichert. Pres. Lewis, 10. Nays, none.

Ald. Lutz presented the follow-

ing estimate:

To the Honorable Common Council, Ann Arbor, Mich., Gentlemen: I submit herewith, the fourth estimate of the cost of preparing a comprehensive plan for a system of storm water drainage for the city of Ann Arbor, and recommend the payment of the amount due Hoad and Decker. Consulting Engireers, Contractors, Amount \$1500.00.

Respectfully submitted, H. Geo.

Sandenburg, City Engineer. Moved by Ald. Lutz, that estimate be allowed and City instructed to draw warrant amount due.

Adopted by following vote: Yeas, Ald. Heusel. Mayer, Prochnow, Donnelly, Spathelf, Moore, man, Lutz, Reichert, Pres. Lewis, 10. Nays, none.

Fire and Finance Committee Report.

To the Honorable, the Commor Council, Gentlemen: Your Fire and Finance Committees, to whom was referred the recommendation the Fire Commissioners relative to compensation of employes of Fire Department, respectfully recommend that the compensation per month beginning February 1. 1020, shall be as follows: Chief, \$175.00; Assistant Chief and Engineer, each \$150.00: two Capatains,

\$143.00; first year firemen, each,
\$125.00; after one year's service,
each \$137.50.
Respectfully submitted, R. E.
Reichert, Chris. T. Donnelly, O.
R. Mayer, Geo. Lutz, Fire and
Finance Committees.
Ald. Reichert moved the adoption
of the report, which was adopted
7 C 11 TT

Ald. Reichert moved the adoption of the report, which was adopted by following vote: Yeas, Ald. Heusel, Mayer, Prochnow, Donnelly, Spathelf, Moore, Freeman, Lutz, Reichert, Pres. Lewis, 10. Nays, none.

Police Committee Report.

To the Honorable, the Common Council, Gentlemen: Your police Committee has had under consideration several proposals to trade in Police Dept. car for a new car and respectfully recommend that proposal of Ann Arbor Garage to furnish one Dodge Bros. touring car with 32 x 3 1-2 cord tire for \$1,215.00 and allowing \$300.00 for old car be accepted.

Respectfully submitted, Geo. Lutz, S. Heusel, Police Committee.

Ald. Lutz moved the adoption of report, which was adopted by following vote: Yeas, Ald. Heusel, Mayer, Prochnow, Donnelly, Spathelf, Moore, Freeman, Lutz, Reichert, Pres. Lewis, 10. Nays, none.

Bond Committee Report.

To the Honorable; the Common Council, Gentlemen: Your Bond Committee has had the following plumber's bond under consideration and respectfully recommend that same be approved: C. C. Sessions. principal; Frederick Heusel, Fred J. Heusel, Jr., sureties.

Respectfully submitted, C. C. Freeman, Member of Bond Committee

Ald Freeman moved the adoption of report, which was adopted by the following vote: Yeas, Ald, Heusel, Mayer, Prochnow, Donnelly, Spathelf, Moore, Freeman, Lutz, Reichert, Pres. Lewis, 10. Nays, none.

Officers' Reports-TREASURER'S REPORT Month Ending Jan. 31, 1920

CITY FUNDS—	
Receipts-	
Contingent—Milk\$	5.00
Plumber	1.00
Bill Poster	25.00
Peddler	10.00
Theaters 2	230.00
Billiards and Pool 1	136.00
Bowling Alleys	40.00
Taxies	9.00

EEBRUARY 16, 1920.	279
Manhole 2.59 Rent on ward build-	
ings	
car 13.89 Interest on bank bal, 667.11	
Fees on tax col 727.22	
Police,—City fees 6.25 Fine money 627.25	\$1,896.81
Street—St. sweeper 2.06	\$627.25
Junk sold 3.00 Plank 6.96	
Park—Shrubs 28.41 Spraying 2.75 Rent 10.00	\$12.02
	41.16
Sidewalk Building— Walks built by city	\$ 81.68
Waterworks, from Manager of dept	\$21,184.58
Totals On hand January 1, 1920	
Warrants paid	$\begin{array}{c} 234,747.91 \\ 32,241.87 \end{array}$
On hand Feb. 1, 1920	
Contingent City cemetery	92.25
Dog license	3.080.39
Poor Police	1 602 40
Street Water Park Street Light Bridge, Culvert and Crosswa Waterworks	5,698.25
Street Light	1,521.93 lk 66.45
Waterworks Special Water Works	11,406.61 $1,547.97$
Total On Hand—	.\$32,241.87
Contingent Fund	. 36,193.99 . 710.32
Dog License	. 731.11
Fire Department	. 913.40
Police Street Water	8,913.52
Water Park Street lighting	1 761 08
Pridge, Culvert & Crosswalk	52.14 $24.907.16$
Waterworks Rejected tax Special Water Works	. 86,173.85
Special Water Works Curb and Gutter No. 1 Street Equipment and barn .	. 36.42
Totals	
Overdrawn— Uncollected Tax Delinquent Tax	\$ 1.739.31 5,663.56

Curb and Gutter No. 2 1,019.04 Edward Street Grading 343.76	Dist. No. 86
	Dist. No. 88 430.31
Total \$ 8,765.67 Warrants Outstanding—	Dist. No. 89
Contingent	Dist. No. 91 749.80
Street	Dist. No. 92
Water Works 134.13	Dist. No. 54
Total	Dist. No. 59
STATE, COUNTY AND SCHOOL	Dist. No. 65
FUNDS— Receipts—	Dist. No. 66
Scare rax collections\$ 14,602.07	Dist. No. 73 58.22
County tax collections 17,483.35 School tax collections 33,502.85	Dist. No. 79 70.36
	Dist. No. 82 411.85
Totals	Dist. No. 84
	Dist. No. 85 379.60
\$396.745.40 Checks paid	101:01
	Total\$11,264.60 Overdrawn\$ 5,770.18
On hand Feb. 1, 1920\$211,745.40 Disburs: ments—	
State Tax\$40,000.00	Overdrawn—Labor Account— \$ 5,494.42
County Tax	Dist. No. 70\$ 165.74
4407 000 00	Dist. No. 73
On Hand—	Dist. No. 79
State Tax	Dist. No. 81
School Tax	Dist. No. 85
Total\$211,745.40	Dist. No. 93
	Tax Account—
On hand Feb. 1, 1920\$211,745.40	Dist. No. 68
SEWER FUNDSReceipts- Tax Account-	Dist. No. 70 46.40
Dist No. 68	Dist. No. 72 2 742 63
Dist. No. 76	Dist. No. 74 14.59
Dist. No. 79	Dist. No. 76 214 68
Dist. No. 84	Dist. No. 77
Dist. No. 85	Dist. No. 81 4.68
Totals\$2,871.75	Dist. No. 87
On hand Jan. 1, 1920 3,914.17	Total
\$6,785.92	Warrants Outstanding— Tax Account—
Warrants paid	Dist. No. 72\$ 100.59
On hand Feb. 1, 1920\$5,494.42 Disbursements—	Total
Labor Account—	PAVEMENT FUNDS— Tax Account—Receipts—
Dist. No. 86	Dist. No. 16 30.45
Dist. No. 94 91.88	Dist. No. 17
Tax Account— Dist. No. 75	Dist. No. 19 6.81
	Dist. No. 21
Total	Dist. No. 25 9.03
Dist. No. 68 477.27	Dist No. 27 5.75
Dist. No. 69 107.98 Dist. No. 71 70.29	Dist. No. 29 14.50
Dist. No. 72 3,191.76	Dist. No. 34
Dist. No. 75. 94.98 Dist. No. 76 140.91	Dist. No. 36
Dist. No. 77 102.49	Total\$ 678.54
Dist. No. 78	On hand Jan. 1, 1920
Dist. No. 82	\$72,980,67

Warrants paid 6,458.99	
On hand Feb. 1, 1920\$66,521.68	On ha
On hand Feb. 1, 1920\$66,521.68	On ha
Disbursements— Labor Account—	Tota
Dist No. 38 790.07	On ha
Dist. No. 39	Cash
Dist. No. 40	
Dist. No. 44 488.26	Tota
Tax Account—	R
Dist. No. 36 40.00	To th
The tole	Cor
Totals\$6,458,99 On Hand—Labor Account—	An
Dist. No. 29\$ 254.34	Th
Dist. No. 32	sione
Dist. No. 36	herev
Dist. No. 37	
Dist. No. 39	of th
Dist. No. 40	cover
Dist. No. 41	ruary
Dist. No. 42	Th
Dist. No. 43	missi
Dist. No. 44	first 1
m Assembt	quan
Dist. No. 11	impe
Dist. No. 13 50.27	prote
Dist. No. 22 312.52	prove
Dist. No. 23 1,080.65	water
Dist. No. 24 4.41	Th
Dist. No. 28 675.66	
Dist. No. 32 235.25	progr
Dist. No. 33	icy.
Dist. No. 34	(Stee
7 1-t. No. 37	put
	July
Total\$75,933.67	Augu
Overdrawn	from
0 1 1 7 01 1000 000 701 00	supp
On hand Jan. 31, 1920\$66,521.68	tion
Labor Account—Overdrawn—	cials
Dist. No. 30\$ 265.89 Dist. No. 31\$ 126.15	icy c
Dist. No. 35	show
Dist. No. 38	redu
Tax Account—	will
Dist. No. 10 1,493.89	sults
Dist. No. 12 214,40	comp
Dist. No. 14 537.18	COLOR SOLUTION STATE
Dist. No. 15 659.20	plyo
Dist. No. 16 931.46	A
Dist. No. 17	tensi
Dist. No. 18	will
Dist. No. 20	the o
Dist. No. 21 887.82	grow
Dist. No. 25 302.39	for
Dist. No. 26	stree
Dist. No. 27 680.39	NO.
Dist. No. 29 159.91	(Ste
Dist. No. 30	Th
Dist. No. 35 124,00	stati
. Total	
State Savings Rank Ann Arbor Mich	the t

Ann Arbor, Michigan:
The Board of Water Commissioners have the honor to present herewith the sixth Annual Report of the Water Works Department covering the fiscal year from February 1, 1919, to January 31, 1920.

The policy of your Water Commissioners is to give its attention first to the providing of a sufficient quantity of water because of the imperative need of adequate fire protection, and secondly to the improvement of the quality of the water supplies.

e past year has shown great ress in accomplishing this pol-The No. 3 Pumping Station ere Farm Development) was in service in the forepart of of the past year and since ast 1st, no water other than artesian sources has been lied the city. The co-operaand support of the city offiand of the citizens to the polof metering all consumers has on exceptionally good results in cing the wastage of water and undoubtedly show further rewhen the metering work is pleted, thus conserving the supof artesian water.

A considerable amount of extensions to the Distribution System will probably be required during the coming year to meet the rapid growth of the city and to provide for the future requirements in streets soon to be paved.

NO. 3 PUMPING STATION (Steere Farm).

The construction work on this station which was in progress at the time of the last annual report, was completed and the station put in service in July, 1919. This station now contains one electrical driven centrifugal pump, having a rated capacity of 3,300,000 gallons per day but is actually supplying at the rate of about 3,700,000 gallons per day, but generally has not

State Savings Bank, Ann Arbor, Mich. Feb. 2, 1920.

This is to certify that the City Treasurer had on deposit at this bank at the close of business January 31, 1920, \$481,655,87.

C. J. WALZ, Cashier.

On hand, City funds\$202,506.04 On hand, State, County and

been required to operate longer the water level in wells other than than 18 hours. made at the station for the instal- pumping at the station, it has been lation of a second pumping unit held that the city is responsible for and during the coming year, after any damage resulting there from. being satisfied as to the probable dependable supply that may be ob-pumping operations appeared to tained from the wells, the Commis-affect the neighboring wells, your sioners propose adding the second Commissioners unit, thereby providing a reserve Water Committee of the Council. unit and increasing the pumping the City Attorney and Engineer and capacity of the station.

and is occupied by the chief oper- wells with 5 inch iron casing to reator. Within the coming year it place all pump wells where there will probably be necessary to con- appeared to be any likelihood of an add.tional struct

house.

cated that the suction pasm or:g- cylinder of the pumps were below inally contemplated may not be the level of the City pumps at the necessary, although final lecision Station to ensure the pump getis reserved on this mutter until it ting water so long as the learned whether the effect pumping the ground water level to wells were driven on the following flow of sand.

WATER SUPPLY AT NO 3 STATION

ment began constructions at the services were given through me-No. 3 Station, the water level in ters, name y at A. Schenk and J. the existing artes an wells was two Lawrence farms to replace former to four feet above the ground surface and until the beginning of pumping there was no there were a number of former material change, other than the flowing wells in which the water usual seasonal, of the water level had lowered to or just below the in the wells. During the spring of surface of the ground, 1919 the twelve 12-inch wells were those on the Osborn, East Bros and driven but generally were not per- James Steere farms had been used mitted to flow. Upon beginning for irr gation, and those of J. Lawpumping operations in July, the rence, James Steere, Mrs. Joseph water level in these artesian wells Steere, Augustine, Canby, and C. was immediately lowered some 4 Davison (L. Breisch) had been used or 5 feet. During the fall the max- for household or for watering stock. imum draft on the wells lowered the water surface to about 61/2 were purchased, set up and piped feet below the ground level. January 31, 1920, following the farms. James Steere, Augustine prolonged cold weather, the maxi- and Canby were supplied through mum draft was about 5 1/2 feet. meters from the 20 inch force main During the six or more hours the and a pump and tank were installed station is not operating the water at the C. Davison (L. Breisch) pasrises to practically the ground surface. The maximum draft permitted by the pump at the station the property owners released the would be about 25 feet below the City from any claims of past or fuground level.

WATER RIGHTS AT NO. 3 STATION.

on the City property, and should 1,700,000 gallons, which if sold to

Provisions are the city property be affected by the

With this in mind, as soon as acting with the Mayor, and with the consent One operator's house is completed of the property owners, drove new operator's present or future damage from the lowering of the water level. In Present operations have indi- every case the new location of the These of pumps obtained water. the lowest limits will cause an in- farms: W. E. Hutzel, 'Amos E. flow of sand.

Lohr, Geo. Wilsey, Miss C. Davison (L. Breisch).

There were a few properties ad-When the Water Works Depart- jacent to the force main where

normal pump wells.

In addition to the pump wells

Gasoline driven pumping outfits On for the Osborn and East Bros. ture.

In none of the above cases have ture damage n connection with their water rights. The water supplied to the above services from The City own the water rights the force main during the fall to at the No. 3 Pump ng Station only about December 15th, amounts to

consumers in the city at rates appropriate the water supply on a par with proximating cost would be equiv- that of No. 3 Station. alent, to \$250.00. The cost of the labor and materials of the work on these properties to date is \$3,-714.50, and there are on file to date some \$19,283.66 claims damage on account of water rights for the past year.

right of eminent domain and may condemn the properties, thus acquiring the water rights with the farm property retaining the class condition. water rights, we respectfully recommend a bond issue sufficient to affected by the pumping opera-

No. 2 PUMPING STATION (Washington Street).

The pumping equipment at this station consisted of a 1,500,000 gallon per day steam driven, duplex, double acting pump installed in 1896 or 7 and now obsolete, and a 2,000,000 gallons per day steam driven pump.ng engine installed in 1907. All fuel for this Station must te teamed from the Ann Arbor mailroad siding. The difficulty in obtaining fue, and having it teamed, together with the poor economy obtained by the steam installation, convinced the Commissioners of the advisability of replacing the obsolete steam pump with an electrically dr.ven unit.

A contract was, therefore, let for the purchase of such a unit. unit is in place and will be ready for operation within a week or so, thereby permitting the 2,000,000gallons per day steam pumping unit to be put in reserve. This change to electric drive will also permit the semi-automatic operat on of the station requiring less continuous attendance. A Liquid Chlorine outfit at the suggestion of Health. the State Board of been added to this station for emergency use in chlorinating the water.

WATER SUPPLY AT NO. 2. STATION.

All the water at this station is construction and the like, as will algea that develop in the sunlight,

NO. 1 PUMPING STATION (Barton Dam).

This station has been held in reserve during the latter part of the past year. During the coming year it is intended to shut down the steam entirely and to Inasmuch as the City has the the electrical pumps for sufficient period each day to deliver the artesian water from this station to the the distribution system, thereby keepproperties and can later dispose of ing those reserve pumps in first RESERVOIR.

In July, 1919, after putting the acquire such properties as may be No. 3 Pumping Station in service, your Commissioners believing that there was then sufficient pumping capacity to supply the city by direct pressure, cleaned the Chubb Road Reservoir. The reservoir had not been cleaned for about years and notwithstanding the long period of use, there was not an excessive amount of sediment. cleaning was accomplished the City fire hose and pumping engine, the sediment being of a clayey nature and very difficult to remove from the round loose boulders. There is some seopage from this reservoir through the earthen embankment and, as suggested in our last report, in the near future this basin should be I ned with concrete.

> A new overflow was constructed of 12 inch cast iron pipe replacing the former 6 inch sewer tile.

During the cleaning period which lasted about 5 days, it was found that pumping at the rate of 9.500. 000 gallons per day together with the storage of the elevated tank, was not sufficient to supply the 3 hour evening sprinkling period. was estimated that at least 15 million gallons per day of pumping capacity would have been required to maintain normal pressure over this 3 hour period. This indicates the great value of the reservoir to the system in taking care of the The reservoir hourly fluctuations. capacity, however, is now about equal to one day's supply, and at obtained from artes an wells. The some future period additional cawells and collecting system, how- pacity will probably be required. ever, are far from satisfactory and The ground water containing some it is intended during the summer iron, should be stored in a covered to do such cleaning of wells, re-reservoir to prevent the growth of

and eventually the reservoirs will Deductions from Operation: require covering.

DISTRIBUTION SYSTEM.

The additions to the distribution past during the amounted to 3,189 feet of 6 inch cast iron pipe, being less than in previous years. This was due to the large amount of extra work entailed in placing mains and services in streets being paved and to the shortage of labor and difficulties in obtaining materials. policy of the Commissioners regarding additions to the plant, as expressed in the last report, is to restrict expenditures per year from the consumers' revenues to 10 percent of the Gross Revenues, believing that a 10 percent net profit on the business done is all the consumers should be required to pay. FINANCIAL.

The revenue from operation of the past year amount to \$106,-580.22 an increase of \$6,631.66 over the previous year. complete A summary of the financial operations is shown in the following table:

Summary of Financial Operations.

REVENUE

Operating ...\$105,896.01 Miscellaneous 684.21

Income from

106,580.22 Operation 3,139.60 Non-Operating

Unamortized

premium on 6,384.39 bonds ...

Gross revenue\$116,068.21

EXPENSE.

Operation ...\$38,192.13 Maintenance 3,013.32

Non-operating expense-

684.21 General ..\$

Abandoned

property 1,050.50

Deferred op-

erating .. 7,695.61

Total expense \$ 50,635.77

Net earnings from oper-

.....\$ 65,432.44 ation

Interest on

funded

debt\$32,780.00

Deprecia-

tion 11,512.37

Plant addition

from earn-

ings 19,920.21

Total deductions from

earnings\$ 64,212.58

Net gain from operation,

Jan. 31, 1920..... 1,219.86 Net gain from operation,

Jan. 31, 1919..... 1.528.78

Balance surplus earnings, Jan. 31, 1920..\$ 2748.64 METERS.

Immediately after the funds from the bond issue for meters was put at the disposal of the Commissioners, contracts were placed for water meters and for their installation, the latter contracts being placed with the master plumbers of the city. These meters are now being installed, about one-half of the work being now com-pleted, and it is expected that the balance will be installed during the spring.

With all consumers metered there will be no set sprinkling hours, and it is expected that all consumers will have better service by the elimination of the restricted

hours.

The report on the rates to be charged is still in the hands of the Engineering Committee, who are expected to complete it in order to put it into effect beginning with the April first quarter. CONCLUSIONS.

The Commission take this opporunity to commend the loyalty and co-operation of the employes of the Department during the past year.

The detailed report of George S. Vandawarker, Manager of the Water Works Department, for the fiscal year ending February 1, 1920, is attached hereto.

Geo. J. Mann, John Lindenschmitt, Wirt Cornwell, Commissioners.

ANNUAL REPORT OF WATERWORKS DEPARTMENT FROM FEB. 1, 1919, TO FEB. 1, 1920. Operation.

Station	No.	1, salaries and supplies	4,122.48
Station	No.	1, sterilization	513.58
Station	No.	1, power	5.769.00

COMMON COUNCIL—FEBRUARY 16, 1920.	285
Station No. 2, salaries and supplies 3,031.22	
Station No. 2, Salaties and Supplies 5,031.22	
Station No. 2, fuel	
Station No. 3, salaries and supplies 2,305.54	
Station No. 3, power 6,633.41	
Station No. 3, water rights 62.85	
Expense general 5,649.30	
Expense office, salaries and supplies 5,970.18	
Utilities expense 903.54	
Insurance 663.23	
	g 8
\$ 38,192.13	
Maintenance.	
Repairs station No. 1\$ 66.40	
Repairs station No. 2 96.86	
	~
Repairs services 1,033.83	
Repairs meters 105.79	
Repairs reservoir 1,024.05	
\$3,013.32	
Miscellaneous Charges.	
General\$ 684.21	
Abandoned property 1,050.50	
Deferred operating	
\$ 9,430.32	150 St.
	0 70 007 55
Total operating	\$ 50,635.77
Interest on bonds	32,780.00
	\$ 83,415.77
Revenue.	
Flat rates\$ 68,574.89	
Meter rates 34,993.79	
Meter rentals	
Service taps	
Mason work 226.00	
Mason work 226.00	\$1 05.896.0 1
Mason work 226.00 Shuts. i. e. off and on 113.00	\$105,896.01
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue.	\$105,896.01
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39	\$105,896.01
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue.	\$105,896.01
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 \$ 10.172.20	\$105,896.01
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 \$ 10.172.20	
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous 3,787.81	\$105,896.01 \$116,068.21
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 Gross revenue Less—	
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 Gross revenue Less— 38,192.13	
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 Gross revenue Less— \$ 38,192.13 Maintenance 3,013.32	
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 Gross revenue Less— \$ 38,192.13 Maintenance 3,013.32 Miscellaneous charges 9,430.32	
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 \$ 10,172.20 Gross revenue \$ 38,192.13 Less— \$ 38,192.13 Maintenance 3,013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00	\$1 16,068.21
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 Gross revenue Less— \$ 38,192.13 Maintenance 3,013.32 Miscellaneous charges 9,430.32	
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 10,172.20 Gross revenue \$ 10,172.20 Less— \$ 38,192.13 Maintenance 3,013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00 Depreciation 11,512.37	\$116,068.21 94,928.14
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 \$ 10,172.20 Gross revenue \$ 38,192.13 Less— \$ 38,192.13 Maintenance 3,013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00	\$1 16,068.21
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous 3,787.81 \$ 10,172.20 Gross revenue 38,192.13 Less— 3,013.32 Maintenance 3,013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00 Depreciation 11,512.37 Operating net profit	\$116,068.21 94,928.14
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 \$ 10,172.20 Gross revenue \$ 10,172.20 Less— \$ 38,192.13 Maintenance 3,013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00 Depreciation 11,512.37 Operating net profit Value added to plant, 1914, (from earnings)\$ 19,760.93	\$116,068.21 94,928.14
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous 3,787.81 \$ 10,172.20 Gross revenue 38,192.13 Less— 3013.32 Maintenance 3,013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00 Depreciation 11,512.37 Operating net profit Value added to plant, 1914, (from earnings) 19,760.93 Value added to plant, 1915, (from earnings) 21,233.28	\$116,068.21 94,928.14
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 Gross revenue Less— \$ 10,172.20 Gross revenue \$ 38,192.13 Maintenance 3,013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00 Depreciation 11,512.37 Operating net profit Value added to plant, 1914, (from earnings) \$ 19,760.93 Value added to plant, 1915, (from earnings) 21,233.28 Value added to plant, 1916, (from earnings) 46,676.73	\$116,068.21 94,928.14
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 \$ 10,172.20 Gross revenue \$ 10,172.20 Less— \$ 38,192.13 Maintenance 3,013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00 Depreciation 11,512.37 Operating net profit Value added to plant, 1914, (from earnings) \$ 19,760.93 Value added to plant, 1915, (from earnings) 21,233.28 Value added to plant, 1916, (from earnings) 46,676.73 Value added to plant, 1917, (from earnings) 89,289.86	\$116,068.21 94,928.14
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 Gross revenue Less— \$ 10,172.20 Gross revenue \$ 38,192.13 Maintenance 3,013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00 Depreciation 11,512.37 Operating net profit Value added to plant, 1914, (from earnings) \$ 19,760.93 Value added to plant, 1915, (from earnings) 46,676.73 Value added to plant, 1916, (from earnings) 46,676.73 Value added to plant, 1917, (from earnings) 89,289.86 Value added to plant, 1918, (from earnings) 14,773.13	\$116,068.21 94,928.14
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 \$ 10,172.20 Gross revenue 38,192.13 Less— 3013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00 Depreciation 11,512.37 Operating net profit Value added to plant, 1914, (from earnings) \$ 19,760.93 Value added to plant, 1915, (from earnings) 21,233.28 Value added to plant, 1916, (from earnings) 46,676.73 Value added to plant, 1917, (from earnings) 89,289.86 Value added to plant, 1918, (from earnings) 14,773.13 Value added to plant, 1919, (from earnings) 14,773.13 Value added to plant, 1919, (from earnings) 14,773.13	\$116,068.21 94,928.14
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 \$ 10,172.20 Gross revenue 38,192.13 Less— 3013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00 Depreciation 11,512.37 Operating net profit Value added to plant, 1914, (from earnings) \$ 19,760.93 Value added to plant, 1915, (from earnings) 21,233.28 Value added to plant, 1916, (from earnings) 46,676.73 Value added to plant, 1917, (from earnings) 89,289.86 Value added to plant, 1918, (from earnings) 14,773.13 Value added to plant, 1919, (from earnings) 14,773.13 Value added to plant, 1919, (from earnings) 14,773.13	\$116,068.21 94,928.14
Mason work 226.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 \$ 10,172.20 Gross revenue \$ 10,172.20 Less— \$ 38,192.13 Maintenance 3,013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00 Depreciation 11,512.37 Operating net profit Value added to plant, 1914, (from earnings) \$ 19,760.93 Value added to plant, 1915, (from earnings) 21,233.28 Value added to plant, 1916, (from earnings) 46,676.73 Value added to plant, 1917, (from earnings) 89,289.86 Value added to plant, 1918, (from earnings) 14,773.13 Value added to plant, 1919, (from earnings) 14,773.13 Value added to plant, 1919, (from earnings) 14,773.13	\$116,068.21 94,928.14
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 \$ 10,172.20 Gross revenue \$ 10,172.20 Less—Operating \$ 38,192.13 Maintenance 3,013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00 Depreciation 11,512.37 Operating net profit Value added to plant, 1914, (from earnings) 19,760.93 Value added to plant, 1915, (from earnings) 21,233.28 Value added to plant, 1916, (from earnings) 46,676.73 Value added to plant, 1917, (from earnings) 89,289.86 Value added to plant, 1918, (from earnings) 14,773.13 Value added to plant, 1919, (from earnings) 14,773.13 Value added to plant, 1919, (from earnings) 19,290.21 Value added to plant, 1919, 19,290.21 Value added to plant, 1919, 19,290.21	\$116,068.21 94,928.14
Mason work 226.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous \$ 3,787.81 \$ 10,172.20 Gross revenue \$ 10,172.20 Less— \$ 38,192.13 Maintenance 3,013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00 Depreciation 11,512.37 Operating net profit Value added to plant, 1914, (from earnings) \$ 19,760.93 Value added to plant, 1915, (from earnings) 21,233.28 Value added to plant, 1916, (from earnings) 46,676.73 Value added to plant, 1917, (from earnings) 89,289.86 Value added to plant, 1918, (from earnings) 14,773.13 Value added to plant, 1919, (from earnings) 14,773.13 Value added to plant, 1919, (from earnings) 14,773.13	\$116,068.21 94,928.14
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous 3,787.81 \$ 10,172.20 Gross revenue \$ 10,172.20 Less— 3013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00 Depreciation 11,512.37 Operating net profit Value added to plant, 1914, (from earnings) \$ 19,760.93 Value added to plant, 1915, (from earnings) 21,233.28 Value added to plant, 1916, (from earnings) 46,676.73 Value added to plant, 1917, (from earnings) 89,289.86 Value added to plant, 1918, (from earnings) 14,773.13 Value added to plant, 1919, (from earnings) \$ 19,290.21 Value added to plant, 1919, (from earnings) \$ 295,730.68 315,020.89	\$116,068.21 94,928.14 \$21,140.07
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous 3,787.81 \$ 10,172.20 Gross revenue 3013.32 Less— 3013.32 Miscellaneous charges 3,013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00 Depreciation 11,512.37 Operating net profit Value added to plant, 1915, (from earnings) \$ 19,760.93 Value added to plant, 1915, (from earnings) 21,233.28 Value added to plant, 1916, (from earnings) 46,676.73 Value added to plant, 1918, (from earnings) 89,289.86 Value added to plant, 1918, (from earnings) 14,773.13 Value added to plant, 1919, (from earnings) \$ 19,290.21 Value added to plant, 1919, bonds 295,730.68 315,020.89 Total additional value	\$116,068.21 94,928.14 \$21,140.07
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous 3,787.81 \$ 10,172.20 Gross revenue \$ 10,172.20 Less— 3013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00 Depreciation 11,512.37 Operating net profit Value added to plant, 1914, (from earnings) \$ 19,760.93 Value added to plant, 1915, (from earnings) 21,233.28 Value added to plant, 1916, (from earnings) 46,676.73 Value added to plant, 1917, (from earnings) 89,289.86 Value added to plant, 1918, (from earnings) 14,773.13 Value added to plant, 1919, (from earnings) \$ 19,290.21 Value added to plant, 1919, (from earnings) \$ 295,730.68 315,020.89	\$116,068.21 94,928.14 \$21,140.07
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue Unamortized premium on bonds 6,384.39 Miscellaneous 3,787.81 \$ 10,172.20 Gross revenue 10,172.20 Less—Operating \$ 38,192.13 Maintenance 3,013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00 Depreciation 11,512.37 Operating net profit Value added to plant, 1914, (from earnings) 19,760.93 Value added to plant, 1915, (from earnings) 46,676.73 Value added to plant, 1916, (from earnings) 46,676.73 Value added to plant, 1918, (from earnings) 14,773.13 Value added to plant, 1919, (from earnings) 19,290.21 Value added to plant, 1919, bonds 295,730.68 315,020.89 Total additional value Original cost	\$116,068.21 94,928.14 \$21,140.07 \$506,754.82 450,000.00
Mason work 226.00 Shuts. i. e. off and on 113.00 Non-Operating Revenue. Unamortized premium on bonds 6,384.39 Miscellaneous 3,787.81 \$ 10,172.20 Gross revenue 3013.32 Less— 3013.32 Miscellaneous charges 3,013.32 Miscellaneous charges 9,430.32 Interest on bonds 32,780.00 Depreciation 11,512.37 Operating net profit Value added to plant, 1915, (from earnings) \$ 19,760.93 Value added to plant, 1915, (from earnings) 21,233.28 Value added to plant, 1916, (from earnings) 46,676.73 Value added to plant, 1918, (from earnings) 89,289.86 Value added to plant, 1918, (from earnings) 14,773.13 Value added to plant, 1919, (from earnings) \$ 19,290.21 Value added to plant, 1919, bonds 295,730.68 315,020.89 Total additional value	\$116,068.21 94,928.14 \$21,140.07 \$506,754.82 450,000.00

 New meter consumers for 1919
 58

 New house connections for 1919
 113

 Hydrants paid for by city
 258

 Free hydrants
 30

 New hydrants installed in 1919
 3

 Meters In Use.

 Size
 |5/8"|3/4"|1"|11/2"|2"|3"|4"|6" | Total

 Number of meters
 |160|172|80|24|67|7|9|2|521

Water Pumped From Feb. 1, 1919, to Feb. 1, 1920.

				Average
				daily con-
Station 1.	Station 2.	Station 3.	Total.	sumption
February76,976,000	14,000,000		90,976,000	3,249,142
March83,233,000	15,500,000		98,733,000	3,184,935
April72,698,000	15,000,000		87,698,000	2,923,666
May79,041,000	15,500,000		94,541,000	3,049,709
June72,323,000	15,000,000	21,041,000	108,364,000	3,612,133
July60,970,000	15,960,000	43,408,000	120,338,000	3,881,871
August 8,560,000	15,244,000	77,508,000	101,312,000	3,268,129
September . 298,000	14,339,000	82,586,000	97,223,000	3,240,766
October	15,420,000	82,669,000	98,089,000	3,164,161
November	14,873,000	74,353,000	89,226,000	2.974.200
December	13,447,000	74,338,000	87,785,000	2,831,774
January 7,077,000	16,902,000	71,041,000	95,020,000	3,065,161
			-	

1,169,305,000 3,203,570

The following extensions were made in 1919:

930 feet of 6-inch pipe on Wall St., from Fifth Ward school toward river. 820 feet of 6-inch pipe on Detroit St., from Catherine to Kingsley.

786 feet of 6-inch pipe on Boulevard Drive from S. State to Cook Spring Co.

653 feet of 6-inch pipe on Jackson Ave., from fire hydrant to city limits. 156 feet of 2-inch pipe on Wells St., from Ferdon Rd. to Baldwin Ave. Water Mains in Ann Arbor City.

	20"	16"	14"	12"	10"	8"	6"	4" 3	" to 2"
1918	11707	26211	5584	18996	4291	11452	199321	19992	42305
1919	5987	12					3189		156

26223 5584 18996 4291 11452 17694 202510 19992 42461 Respectful'y submitted: WATER WORKS DEPARTMENT of the City of Ann Arbor, by Geo. S. Vandawarker, manager.

Reports of City Treasurer, Clerk matter and Acting Marshal for month of placed at the intersection of Ann January and annual report of Arbor Railroad and all streets be-January and annual ordered to take usual course.

Ann Arbor, Mich., Feb. 16, 1920. The Board of Water Commissioners, Ann Arbor, Mich., Gentlemen: Engineering Committee whom was requested a recommen- Lewis, 10. Nays, none. dation as to the rates to be charged for water with a comsystem, respectpletely metered fully report that the rate is not entirely completed but that it will be completed before March 15th. Yours Engineering respectfully,

Committee, H. K. Holland. By Ald. Chris. T. Donnelly:

Resolved, that the salary of Mr. M. C. Ryan, sanitary policeman. with Feb. 1, 1920.

Adopted by the following vote: Yeas, Ald. Heusel, Mayer, Prochnow, Donnelly, Spathelf, Lloore, Reichert, Pres. Lutz, Freeman, Lewis, 10. Nays, none.

By Ald. Mayer:

Resolved, that the Railway Com mittee be instructed to take up the

of having guard Arbor Railroad and all streets be-Water Works Dept.. received and tween and including Liberty st., and Madison st.

Adopted by the following vote: Yeas, Ald. Heusel, Mayer, Prochnow, Donnelly, Spathelf, ot Freeman, Lutz, Reichert,

> By Ald. Lutz: Resolved. this body does hereby declare for a general revision of the Charter of the City of Ann Arbor.

Resolved, further, that the ques tion of a general revision of the Charter of the City of Ann Arbor be submitted to the electors of said City at the gereral city election to be held on the fifth day of April, 1920 and that at said elecbe \$137.50 per month, beginning tion a charter commission be elected for the purpose of revising said charter.

> Resolved, further, that the City Attorney is hereby directed to pr :pare the necessary resolution for the submission of said question to the electors on said date.

> Adopted by the following vote: Yeas, Ald. Heusel, Mayer, Proch

now, Donnelly, Spathelf, Freeman, Lutz, Reichert, Pres. Lewis, 10. Nays, none.

By Ald. Lutz:

Whereas, this Council has clared for a general revision of the Charter of the City of Ann Arbor by the required vote, therefore, be it

Resolved, that the proposition or a general Charter revision of the Charter of the City of Ann Arbor be submitted to the electors at the general City election to be held on the Fifth day of April, 1920.

Be it further resolved, that the polling places shall be as follows: The First Ward, Voting Room Basement of City Second Hall; Ward, Ward building Ashley St; Third W on South Ward, Ward Building on Miller Avenue; Fourth Ward, Voting Room, Basement of Armory, Fifth Avenue; Fifth Ward, Ward Building, Corner of Swift Ward, and Pontiac Streets: Sixth Voting Room in Old Engine House on East University Avenue; Seventh Ward, First precinct, Ward Building on Mary St.; Second Precinct, Voting Room in Eberbach School, Corner of Wells Street and Forest Avenue.

Resolved, further, that the polls Chamber of shall open at Seven o'clock a. m., open remain until o'clock p. m. and that the Super- ter Commissioners. Adopted. visors and Aldermen act as election inspectors according to Charter.

Resolved, further, that the bal-

Moore, lots shall be of white paper equal width and length and shall read as follows:

For a general revision

City Charter

Yes (No (

Resolved, further, that at said election there shall be elected a Charter Commission as follows:

One Commissioner from ward of said City, and four Com-

missioners at large.

Resolved, further, that the canvass and termination of said votes be made pursuant to State and City Charter.

Resolved, further, that the City Clerk is hereby directed to prepare the ballots for said election and to make all necessary arrangements for said election.

Adopted by the following vote: Yeas, Ald. Heusel, Mayer, Proch. now, Donnelly, Spathelf, Moore, Freeman, Lutz, Reichert, Pres. Lewis, 10. Nays, none.

Moved by Ald. Lutz, that Mayor and President of Council be appointed a committee to ascertain if it is advisable to adopt Eastern time during the summer months. Adopted.

Moved by Ald. Lutz, that Commerce be nominating quested to circulate Eight petitions for candidates for Char-

On motion of Ald.

the Council adjourned.

ISAAC G. REYNOLDS. City Clerk.