

Council Chamber, Ann Arbor, Mich., April 19., 1920. Regular Session.

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

President Lewis announced the appointment of the following standing committees:

Finance—Ald. Lutz, Haarer, Groves.

Ordinance—Ald. Reichert, Freeman, Sugden.

Sewer—Ald. Sugden, Ehnis, Lucas, Donnelly, Moore, Freeman, Reichert.

Street—Ald. Henderson, Slauson, Haarer, Groves, Spathelf, MacGregor, Lutz.

Sidewalk—Ald. MacGregor, Lutz, Moore, Groves, Henderson, Ehnis, Slauson.

Railway—Ald. Freeman, Spathelf, Henderson.

Fire—Ald. Ehnis, Donnelly, MacGregor.

Lighting—Ald. Donnelly, Haarer, Reichert.

Water—Ald. Moore, Lutz, Sugden.

Police—Ald. Groves, Slauson, MacGregor.

License—Ald. Haarer, Freeman, Reichert.

Bonds, Ald. Slauson, Henderson, Spathelf.

Park & Sanitary—Ald. Lucas, Sugden, Moore.

Poor & Cemetery—Ald. Spathelf, Donnelly, Lucas.

By Ald. Donnelly: Resolved, that the rules of the last Council be and the same are hereby adopted as the rules of this Council, and City Clerk is hereby authorized to have sufficient copies of the same printed.

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

#### Communications.

##### From Board of Public Works.

Moved by Mr. Hutzel, that Council be requested to permit Board to make any repairs to cars of Engineer and Street Dept., and all motor-driven machinery as may be necessary during the ensuing year.

(Council action)

Moved by Ald. Donnelly, that request of Board be concurred in.

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

##### From Charter Commission.

Moved by Mr. Wilgus, that the Common Council be requested to make a provisional appropriation of \$1,500.00 for expenses of Charter Commission.

(Council action)

Moved by Ald. Lutz, that request of Charter Commission be granted and \$1,500.00 is hereby transferred from the Contingent fund to a fund to be known as Charter Commission fund.

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

(From Charter Commission)

Moved by Mr. Jones, that members of Common Council be invited to attend next meeting.

Communication from J. W. Ferle, relative expense of opposing increase in telephone rates, received and on motion of Ald. Reichert the matter was referred to City Attorney and Mayor to report back at next meeting.

Mayor Ernst M. Wurster presented communication from Mich. Public Utilities Commission, relative to appraisal of property of Michigan State Telephone Co. in this city, which suggested that representative of city be present during inventory and appraisal.

Referred to Mayor, City Attorney and Finance Committee to report back at next meeting.

Requests of James A. Steere and Leonard Canby, that water be furnished to their farms adjoining "Steere Farm" as per agreement, received and referred to Water Commission, Water Committee and City Attorney.

#### Petitions.

Petition of John Barker Waite, et. al for water main on Day st., and petition of Walter R. Darling, et. al. for water main on Greene st. from Hoover ave. about 400ft. south, received and referred to Water Committee and Water Commission.

Petition of Robert Whitney for sanitary sewer to connect property at 613 S. Fifth ave. received and referred to Sewer Committee.

Petition of J. F. Wuerth, et. al. for pavement in that part of alley running north and south between Liberty and William sts., in B 3 S., R. 3 E., from Liberty st. south to and including lots 5 and 12., received and referred to Street committee and City Engineer.

Petition of Roscoe O. Bonisteel, et. al. for curb and gutter on Ferdon road, received and referred to Street Committee and City Engineer.

To the Honorable Common Council of the City of Ann Arbor. We, the undersigned, freeholders of the Second ward, in the City of Ann Arbor, Michigan, respectfully petition your Honorable Body to discontinue and vacate the alley located between the West line of lots seven and eight and the East line of lots five and six, in Block one South of Huron Street. Range two East, according to the Recorded Plat of the Village, now City of Ann Arbor, Michigan, and extending from the North line of West Washington Street about one hundred thirty two (132) feet to the center of said block, for the reason that said Alley or part thereof has always been occupied by the adjacent owners with buildings thereon and has never been opened for public travel, nor in anyway used as an alley and it would be to the advantage of the adjacent owners and to the City at large to have said Alley discontinued and vacated. L. C. Weinmann, Pauline Wurster, E. M. Wurster, Edwin L. Feldkamp, Otto E. Haab, J. Fred Staebler, Michael Staebler, William H. Murray, John C. Nagel, Wm. Poulos, F. G. Sleicher, Frederick Heusel, Edith Heusel, Oswald A. Herz.

Referred to Street Committee.

**Street Oiling Petitions.**

F. A. Tinker, et. al. Monroe st. between E. Univ. and Haven aves. Referred to City Engineer.

**Committee Reports.**

**Finance Report.**

**Fire Fund.**

Chas. Andrews, salary .....	\$ 87.50
Eugene Williams, salary .....	75.00
Ralph Edwards, salary .....	75.00
Henry McLaren, salary .....	71.50
Jacob Gwinner, salary .....	71.50
Harley Wise, salary .....	68.75
Frank Markey, salary .....	68.75

Herman Krause, salary .....	68.75
Emil Dammin, salary .....	68.75
Mat. Heininger, salary .....	68.75
Raymond Gillespie, salary .....	68.75
Floyd Naylor, salary .....	68.75
Earl Arnold, salary .....	68.75
Claud Cobb, salary .....	68.75
Fred Nordman, salary .....	68.75
Benj. Zahn, salary .....	68.75
Henry Nevroth, salary .....	62.50
Wm. Weinger, salary .....	62.50
Chas. Carroll, salary .....	15.48

Fire fund total salaries, half month, April .....\$1,277.23

**Police Fund.**

Thos. O'Brien, salary .....	87.50
Wm. April, salary .....	68.75
Ed. Blumhardt, salary .....	68.75
Frank Keihl, salary .....	68.75
Marlend Howard, salary .....	68.75
Clyde Bennett, salary .....	68.75
Chas. Splitt, salary .....	68.75
Joseph Gast, salary .....	68.75
Frank Marz, salary .....	68.75
Geo. Randel, salary .....	68.75
Chas. Harden, salary .....	68.75
Carl Arnold, salary .....	62.50
Robert Clark, salary .....	68.75

Police fund total salaries ½ month April .....\$906.25

**Water Works Fund.**

Harry Willsher, salary .....	\$ 58.75
Henry Walter, salary .....	9.99
Wm. Walters, salary .....	8.79
Emanuel Sodt, salary .....	70.50
Fred Linde, salary .....	62.50
John Volland, salary .....	44.06
John Schwikart, salary .....	44.06
Norman Rowe, salary .....	47.00
Robert Young, salary .....	44.06
A. E. Hawkes, salary .....	49.94
Cliff Shetterly, salary .....	70.50
Louise Malloy, salary .....	49.94
Russell Pryce, salary .....	49.94
Wm. Groves, salary .....	42.50

Water Works total semi-monthly salaries .....\$652.53

**Contingent Fund.**

M. C. Ryan, salary, ½ month.....\$ 68.75

**Engineer Dept.**

Eugene Harlock, services .....	\$ 12.00
Karl Krumrei, services .....	58.50
Vernor W. McAdam, services..	66.00
F. C. Miller, services .....	12.00
Ralph Paquette, services .....	12.00

Total Engineer Dept. ....\$160.50

**Election.**

Mark B. Sugden, services.....	\$ 15.00
Oswald R. Mayer, services .....	15.00
Herman G. Ehnis, services .....	15.00
Wm. L. Henderson, services....	15.00
Walter S. Moore, services .....	15.00
C. C. Freeman, services .....	15.00
R. E. Reichert, services .....	15.00
George E. Lewis, services .....	15.00
W. G. Johnson, services .....	12.00
William Kuhn, services .....	12.00
John M. Naylor, services .....	12.00
Besse J. Sugden, services .....	12.00
Clara L. Cushing, services .....	12.00
George A. Wild, services .....	12.00
Eunice M. Gerstner, services ..	12.00

Samuel Henne, services .....	12.00	Sid W. Millard, printing .....	158.00
Albert S. Lutz, services .....	12.00	A. M. Spahelf, supplies .....	3.11
Otto E. Haab, services .....	12.00		
Harry H. Gillen, services .....	12.00	Total election .....	\$1,181.11
William H. Murray, services ....	12.00	Mich. State Tel. Co., toll .....	\$ .40
Albert K. Schmidt, services .....	12.00	Washtenaw Gas Co., city hall, etc	4.35
Ernest E. Gwinner, services.....	12.00	The Detroit Edison Co., supplies	.75
G. E. Washington, services .....	12.00	A. A. Community Federation	
Carl A. Lehman, services .....	12.00	Community House, appro. ....	50.09
Charles H. Saraw, services .....	12.00	Emily Zeeb, services .....	12.00
Gaylord W. Royce, services .....	12.00	Jessie Crippen, services .....	36.00
Charles E. M. Bailey, services....	12.00	E. G. Mann, insurance .....	15.00
George P. Stauch, services .....	12.00	Ann Arbor Garage, Dodge car..1,	125.00
Milton M. Steffey, services .....	12.00	Frederick Post Co., supplies ....	39
Hope Zemke, services .....	12.00	F. H. Whittaker, supplies .....	6.00
Mamie Saraw, services .....	12.00	Jno. C. Fischer Co., supplies ....	1.75
S. S. Hammial, services .....	12.00	The Mayer-Schairer Co., services,	
Wm. H. Krapf, services .....	12.00	etc. ....	28.30
Harry W. Nichols, services .....	12.00	Quarry Drug Co., services .....	6.75
Henry A. Balsler, services .....	12.00	Wm. H. L. Rhode, supplies ....	10.83
Phillip O'Hara, services .....	12.00	Swisher Grocer Co., supplies ....	9.75
D. P. McAuliffe, services .....	12.00	U. S. Army Q. M. Store, supplies	5.25
J. H. Herrick, services .....	12.00	Staebler & Co., coupon book ..	10.00
Charles A. Kapp, services .....	12.00	Joe Wickliffe, burial cat .....	.50
Catherine A. Kapp, services .....	12.00	Chas. Harden, burial dog .....	1.00
Walter E. Moore, services .....	12.00	G. H. Kittredge, repairs .....	10.78
Channing Smith, services .....	12.00	A. C. Marquardt Garage, repairs.	18.90
James D. Ramsay, services .....	12.00	Henry S. Platt, garage .....	6.20
Clyde M. Smith, services .....	12.00	Gus J. Vogel, repairs .....	1.80
Sara Whedon, services .....	12.00	Frank B. DeVine, expenses paid.	10.18
Isadore T. Scott, services .....	12.00		
J. Groves, services .....	12.00	Total supplies, etc. ....	\$1,371.88
G. B. Hicks, services .....	12.00	Contingent fund total including	
B. F. Savery, services .....	12.00	salary .....	\$2,782.24
R. A. Campbell, services .....	12.00		
James N. Galbraith, services ....	12.00	<b>Fire Fund.</b>	
George J. Lutz, Jr., services .....	12.00	Dean & Co., Ltd., gasoline .....	\$ 55.28
Evan Essery, services .....	12.00		
Maria Peel, services .....	12.00	Fire fund total including sal-	
Arthur G. Hall, services .....	12.00	aries .....	\$1,332.51
L. M. Sherwood, services .....	12.00	<b>Street Lighting Fund.</b>	
Charles A. Sink, services .....	12.00	The Detroit Edison Co., light..	\$1,510.17
C. O. Davis, services .....	12.00	<b>Water Works Fund.</b>	
George J. Geisel, services .....	12.00	Neptune Meter Co., supplies ...	\$4,731.14
Herman D. Gross, services .....	12.00	The Athens Press, services .....	116.50
Clara D. Scovel, services .....	12.00	Crane Co., supplies .....	15.90
R. O. Bonisteel, services .....	12.00	Davis & Ohlinger, supplies .....	33.75
John Heinzmann, services .....	6.00	W. S. Darley & Co., supplies ....	15.00
Geo. D. Schaffer, services .....	6.00	The Mayer-Schairer Co., supplies	6.50
C. L. Lutz, services .....	6.00	Fairbanks, Morse & Co., supplies	70.00
Fred Huhn, services .....	6.00	Henry S. Platt, supplies .....	.55
T. M. Saraw, services .....	6.00	Schumacher & Backus, supplies	2.75
A. B. Wines, services .....	6.00	Jno. C. Fischer Co., supplies ..	2.05
Patrick Walsh, services .....	6.00	Luick Bros. & Co., supplies .....	54.56
Wm. Bell, services .....	6.00	Geo. Wahr, supplies .....	2.20
Louise Gross, services .....	6.00	E. C. Edsill, supplies .....	11.50
Christina Luippold, services ....	6.00	E. M. Wurster, supplies .....	135.68
Edward Kitchen, services .....	6.00	Washtenaw Electric Shop, sup-	
L. E. Slussar, services .....	6.00	plies .....	404.56
Wm. Weinmann, services .....	6.00	Ohio & Mich. Coal Co., supplies..	400.32
Sebastian Seyfried, services ....	6.00	Post Office, supplies .....	28.88
C. M. Thompson, services .....	6.00	Holland, Ackerman & Holland,	
Carl Stoll, services .....	6.00	services .....	478.00
Geo. P. Otley, services .....	10.00	Elmer Knox, services .....	18.02
John T. Kenney, services .....	10.00	John Moore, services .....	55.69
Geo. H. Fischer, services .....	10.00	C. E. Godfrey, cartage, etc.....	46.45
W. B. Draper, labor .....	6.00	Mich. Central R. R. Co., freight..	79.96
Edward Easterly, labor .....	6.00	Citizens' Mutual Auto Ins. Co.,	
Channing Smith, labor .....	2.00	insurance .....	13.20
Martin Walsh, labor .....	2.40	R. Steward, setting meters .....	175.00
Dingman Cartage Co., cartage ..	8.35	Mich. State Tel. Co., services ..	8.70
Dodge Taxi Service, services ....	6.00	Water Works Dept., expenses...	8.48
Catalpa Inn, meals .....	29.25		
Frank C. Palmer, meals .....	40.00	Totals supplies, etc., .....	\$6,915.32
The Mayer-Schairer Co., supplies	26.00	F. Rhodenbecker, labor .....	\$ 60.75
and printing .....		J. Nimz, labor .....	52.65
		F. Lutz, labor .....	50.05

C. Sauer, labor .....	35.10
<b>Total labor .....</b>	<b>\$198.85</b>
Water Works fund total including salaries .....	\$7,766.40

**Park Fund.**

L. Atchison, labor .....	\$ 1.75
Carroll Benz, labor .....	14.40
John Davis, labor .....	25.00
Lyle E. Davis, labor .....	20.80
E. A. Gallup, team .....	38.22
Ezra Moore, team .....	38.22

<b>Total labor .....</b>	<b>\$ 138.39</b>
Standard Oil Co., coupon book..	\$ 10.00
Citizens' Mutual Auto Insurance Co., insurance .....	6.60
Henry S. Platt, insurance .....	2.90
Hertler Bros., supplies .....	12.00
The Mayer-Schairer Co., printing .....	1.75
Washtenaw Gas Co., supplies, etc. ....	8.40
E. A. Gallup, telegram paid..	.53

<b>Total supplies, etc. ....</b>	<b>\$ 42.18</b>
<b>Park fund total .....</b>	<b>\$180.57</b>

**Street Fund.**

Chris. Allmendinger, labor.....	\$ 27.80
L. G. Bird, labor .....	70.50
William Clark, labor .....	16.00
George G. Hesprie, labor .....	15.00
Fred G. Hanselman, labor .....	52.65
Emanuel Holzappel, labor .....	5.85
Sam Kalmbach, labor .....	16.00
Matt. Koch, labor .....	16.00
William L. Kuehn, labor .....	16.00
James Mason, labor .....	66.30
W. H. Romig, labor .....	15.99
Adam Schlecht, labor .....	24.50
Martin Walsh, labor .....	31.80
Mike Wiedman, labor .....	19.00
George Zieffle, labor .....	17.60
Chas. T. Collins, team .....	8.00
Chas. Flewelling, team .....	67.30
Wm. J. Grayer, team .....	58.00
Jno. E. Herrst, team .....	120.00
Jno. Miller, team .....	25.00
Clayton Thompson, team .....	23.00
Jacob Young, team .....	59.00

<b>Total labor .....</b>	<b>\$770.90</b>
The Galion Iron Works & Mfg. Co., supplies .....	\$ 30.00
Kendallville Broom & Brush Co., supplies .....	11.75
Jno. C. Fischer Co., supplies .....	5.34
Hertler Bros., supplies .....	10.20
Oswald A. Herz, supplies .....	4.95
Schumacher Hardware Co., supplies .....	7.15
Stabler & Co., gasoline .....	5.74
U. S. Army Q. M. Store, supplies .....	13.05
G. E. Washington, supplies .....	1.00
City Garage, repairs .....	4.30
Elgin Street Sweeper Co., repairs .....	6.90
The Machine Specialty Co., repairs .....	2.75
Schumacher & Backus, repairs..	.70
Henry S. Platt, storage .....	2.00
Mich. Central R. R. Co., freight..	.50
A. J. Paul, freight paid .....	.87

<b>Total supplies, etc. ....</b>	<b>\$107.20</b>
<b>Street fund total .....</b>	<b>\$878.10</b>

**RECAPITULATION.**

Contingent fund .....	\$ 2,782.24
Fire .....	1,332.51

Police .....	906.25
Street Lighting .....	1,510.17
Water Works .....	7,766.40
Park .....	180.57
Street .....	878.10

**Total City funds .....** \$15,356.24  
Ann Arbor, Mich., April 19, 1920.

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

ISAAC G. REYNOLDS, City Clerk.

To the Honorable, the Common Council: Gentlemen—Your Finance committee has reviewed the foregoing report. Warrants for salaries were drawn April 16, 1920. We recommend that same be approved and that warrants be ordered drawn for the foregoing accounts.

GEO. LUTZ, Chairman Finance Committee.

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

**Bond Committee Report.**

To the Honorable, the Common Council, Gentlemen: Your Committee on Bonds has had the following bonds under consideration and respectfully recommends their approval:

**Constables' Bonds.**

Clay Alexander, principal; W. J. Conlin and E. G. Stadel, sureties. Herman Heimendinger, principal; Carl A. Mahlke and Emile M. Mahlke, sureties. Ernest White, principal; Henry E. Vogel and Fred Wurster, sureties. William Van Riper, principal; John E. Kranich and A. M. Bowen, sureties. Myron H. Mills, principal; George Sheffield and Geo. W. Seybold, sureties.

**Plumbers' Bonds.**

John Ferne, principal; American Surety Company of New York, sureties. Robert A. Steward, principal; American Surety Co., of New York, sureties.

Respectfully submitted, H. M. Slauson, Wm. L. Henderson, Geo. Spahelf, Bond Committee.

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

**Treasurer's Report, City Funds.**

Month ending March 31st, 1920.  
Contingent: Fees on tax col., \$153.84; excess of rolls,

\$493.91; penalty on tax collected, \$1,221.11; transfers, \$1,049.49; interest on bank bal., \$708.67; city scales, \$27.10; car license, \$2.00; dray and taxie, \$18.00; billiards, \$14.00; peddlers, \$81.00.....\$ 3,769.12  
 City Cemetery: Burials, \$14.00; sale of lot, \$25.000; care of lot, \$50.00 .....\$ 89.00  
 Poor: Rent refund ..... 2.42  
 Street: Lumber sold, \$5.95; repair, pavement, \$13.18..... 19.13  
 Park: Rent ..... 10.00  
 Sidewalk Building: Returned to County Treas. .... 177.56  
 Waterworks: From Main of Dept. .... 4,699.18  
 Uncollected Tax: Tax col., \$534.50; returned, \$4,700.66.; 5,235.16  
 Delinquent Tax: From County Treasurer ..... 3,763.38  
 Rejected Tax: Collection .... 499.81  
 Edward Street Grading: Ret. to County Treas. .... 45.00

Totals .....\$18,312.21  
 On hand March 1st, 1920....\$162,225.28

Warrants paid .....\$180,537.49  
 54,007.56

On hand April 1st, 1920....\$126,529.93  
 Disbursements—  
 Contingent fund .....\$ 6,191.04  
 City Cemetery fund ..... 86.38  
 Dog License ..... 731.11  
 State Dog tax ..... 100.00  
 Fire Department ..... 2,604.35  
 Poor fund ..... 94.82  
 Police fund ..... 2,854.45  
 Street fund ..... 540.73  
 Park fund ..... 902.59  
 Street light fund ..... 1,509.21  
 Water works fund ..... 19,656.26  
 Uncollected Tax fund ..... 6,425.78  
 Delinquent Tax fund ..... 11,736.38  
 Rejected Tax fund ..... 499.81  
 Special Water Works fund .. 74.65

Totals .....\$54,007.56

On Hand—  
 Contingent fund .....\$31,770.87  
 City Cemetery fund ..... 654.94  
 Fire Department fund ..... 3,161.09  
 Poor fund ..... 738.52  
 Police fund ..... 3,571.16  
 Street fund ..... 7,741.81  
 Water fund ..... 1,197.81  
 Park fund ..... 625.34  
 Street Light fund ..... 6,007.42  
 Sidewalk Building fund ..... 308.23  
 Bridge, Culvert and Crosswalk fund ..... 24,722.53  
 Waterworks fund ..... 37,409.06  
 Rejected Tax fund ..... 143.36  
 Special Water Works fund .. 23,049.68  
 Curb and Gutter No. 1 ..... 36.42  
 Street Equipment and barn.. 1,039.20

Totals .....\$142,177.44  
 15,647.51

On hand April 1st., 1920....\$126,529.93  
 Overdrawn—  
 Uncollected Tax fund ..... 697.14  
 Delinquent tax fund ..... 13,632.57

Curb and Gutter No. 2 fund.. 1,019.04  
 Edwards Street grading .... 298.76

Totals .....\$15,647.51

Warrants Outstanding—  
 Contingent fund ..... 78.94  
 Fire Department fund ..... 19.16  
 Street fund ..... 110.50  
 Park fund ..... 8.00  
 Waterworks fund ..... 338.34

Totals .....\$ 554.94

## TAX FUND—

State Tax: Tax collection .....\$1,400.77  
 From uncollected City Tax fund ..... 931.09 2,331.86  
 County Tax: Tax collection .....\$1,177.52  
 From uncollected city Tax fund ..... 1,593.55 2,771.07  
 School Tax: Tax collection .....\$3,213.82  
 Ret. to County Treas.. 5,375.72  
 From uncollected City Tax fund ..... 1,970.03 10,559.57

Totals .....\$15,662.50  
 On hand March 1st, 1920.... 212,318.85

Checks paid March 18th, 1920.\$227,981.35  
 \$227,981.35

## SEWER FUND—

Dist. No. 64.....\$ 15.55  
 Dist. No. 68 ..... 142.63  
 Dist. No. 70 ..... 3.14  
 Dist. No. 72 ..... 529.58  
 Dist. No. 73..... 14.41  
 Dist. No. 77..... 239.39  
 Dist. No. 80..... 34.28

Totals .....\$ 979.03  
 On hand March 1st, 1920 ..... 5,725.51

Warrants paid .....\$6,704.54  
 233.98

On hand April 1st, 1920 .....\$6,470.56  
 Dist. No. 94.....\$ 15.60  
 Dist. No. 54..... 2.73  
 Dist. No. 59..... 215.65

Totals .....\$ 233.98

Dist. No. 68.....\$ 477.27  
 Dist. No. 69 ..... 107.98  
 Dist. No. 71 ..... 70.29  
 Dist. No. 72 ..... 3,191.76  
 Dist. No. 75..... 94.98  
 Dist. No. 76 ..... 140.91  
 Dist. No. 77 ..... 102.49  
 Dist. No. 78 ..... 27.51  
 Dist. No. 80 ..... 217.29  
 Dist. No. 82 ..... 538.33  
 Dist. No. 86 ..... 205.23  
 Dist. No. 87 ..... 68.57  
 Dist. No. 88 ..... 430.31  
 Dist. No. 89 ..... 408.82  
 Dist. No. 90 ..... 2,133.38  
 Dist. No. 91 ..... 749.180  
 Dist. No. 92 ..... 573.00  
 Dist. No. 64 ..... 49.92  
 Dist. No. 65 ..... 32.20  
 Dist. No. 66 ..... 16.54  
 Dist. No. 67 ..... 89.32  
 Dist. No. 73 ..... 120.44  
 Dist. No. 74 ..... .28  
 Dist. No. 77 ..... 47.82  
 Dist. No. 77 ..... 44.67

Dist. No. 79.....	70.36
Dist. No. 82.....	422.39
Dist. No. 83.....	226.66
Dist. No. 84.....	32.60
Dist. No. 85.....	417.78
Dist. No. 86.....	131.64
Totals.....	\$11,240.55
On hand April 1st, 1920.....	4,769.99
Dist. No. 70.....	\$ 165.74
Dist. No. 73.....	156.75
Dist. No. 74.....	28.83
Dist. No. 79.....	27.21
Dist. No. 81.....	37.60
Dist. No. 83.....	327.85
Dist. No. 85.....	223.75
Dist. No. 93.....	278.89
Dist. No. 94.....	107.48
Dist. No. 68.....	533.38
Dist. No. 68.....	38.55
Dist. No. 70.....	20.91
Dist. No. 71.....	54.48
Dist. No. 72.....	2,143.88
Dist. No. 75.....	306.44
Dist. No. 76.....	214.68
Dist. No. 80.....	93.62
Dist. No. 81.....	4.68
Dist. No. 87.....	5.27

Totals.....	\$4,769.99
Dist. No. 72.....	\$ 100.59..

Totals.....\$ 100.59

PAVING FUND—

Dist. No. 12.....	\$ 13.09
Dist. No. 15.....	27.03
Dist. No. 16.....	16.75
Dist. No. 17.....	6.90
Dist. No. 18.....	54.35
Dist. No. 19.....	14.06
Dist. No. 24.....	22.51
Dist. No. 25.....	26.42
Dist. No. 26.....	15.88
Dist. No. 27.....	26.62
Dist. No. 28.....	67.39
Dist. No. 29.....	82.88
Dist. No. 30.....	84.35
Dist. No. 33.....	18.81
Dist. No. 34.....	185.41
Dist. No. 36.....	155.44

Totals.....	\$ 817.79
On hand March 1st, 1920.....	66,804.40

Warrants paid.....\$67,622.19  
12,028.48

On hand April 1st, 1920.....	\$55,593.71
Dist. No. 41.....	\$12,028.48

Totals.....	\$12,028.48
Dist. No. 20.....	\$ 254.34
Dist. No. 32.....	243.61

Dist. No. 36.....	1,854.01
Dist. No. 37.....	834.77
Dist. No. 39.....	9,995.43
Dist. No. 40.....	12,497.10
Dist. No. 41.....	1,189.33
Dist. No. 42.....	309.01
Dist. No. 43.....	12,713.85
Dist. No. 44.....	15,685.59
Dist. No. 11.....	789.70
Dist. No. 13.....	50.27
Dist. No. 22.....	312.52
Dist. No. 23.....	1,080.65
Dist. No. 24.....	26.92
Dist. No. 26.....	15.49
Dist. No. 28.....	734.05
Dist. No. 29.....	4.77
Dist. No. 32.....	281.46
Dist. No. 33.....	302.89
Dist. No. 34.....	2,250.42
Dist. No. 36.....	2,641.69
Dist. No. 37.....	400.98

Totals.....	\$64,477.85
	8,884.14

On hand April 1st, 1920.....	\$55,593.71
Dist. No. 30.....	\$ 265.89
Dist. No. 31.....	126.15
Dist. No. 35.....	267.24
Dist. No. 38.....	730.13
Dist. No. 10.....	1,493.89
Dist. No. 12.....	201.31
Dist. No. 14.....	515.64
Dist. No. 15.....	617.92
Dist. No. 16.....	914.71
Dist. No. 17.....	30.91
Dist. No. 18.....	648.28
Dist. No. 19.....	183.32
Dist. No. 20.....	745.16
Dist. No. 21.....	865.23
Dist. No. 25.....	275.97
Dist. No. 27.....	654.07
Dist. No. 30.....	223.42
Dist. No. 35.....	124.90

Totals.....	\$8,884.14
-------------	------------

This is to certify that the City Treasurer had on deposit at the State Savings Bank of Ann Arbor at the close of business March 31, 1920, \$188,480.65.  
STATE SAVING BANK, R. E. Reichert,  
Assistant Cashier.

RECAPITULATION.

On hand, city funds.....	\$126,529.93
On hand, sewer funds.....	6,470.56
On hand pavement funds.....	55,593.71

Total.....	\$188,594.20
State Savings Bank bal.....	\$188,480.65
Cash on hand.....	113.55

Total.....\$188,594.20  
ROSS GRANGER, City Treasurer.

To the Board of Public Works, Ann Arbor, Michigan: Dear Sirs—I submit the following report of expenditures, for work done under my direction, during the month of March, 1920:

Name.	Amount.	Chargeable to	Amount.
Engineering and Clerical—		1. Accounts.....	\$ 42
G. H. Sandenburgh.....	\$181.29	2. Records.....	181.30
H. R. Scovill.....	142.68	3. Correspondence.....	7.46
V. W. McAdam.....	157.12	4. Monthly report.....	2.90
H. M. Woodward.....	75.00	5. Council, Board and Committee meeting.....	19.60
J. Lorke.....	12.25	6. Inspecting plumbing.....	7.13
St. Commissioner's roll.....	30.56..		

8. Information to Public .....	18.49
9. Information received from others .....	10.69
12. Cleaning and arranging Engineer's office .....	.75
22. Sidewalk grades .....	4.03
23. Curb grades .....	26.96
24. Street lines and grades .....	16.08
25. Preliminary estimates .....	4.54
59. Sickaess (G. H. Sandenburgh, (H. R. Scovill and H. M. Woodward) .....	18.35
36. Automobile .....	1.22
66. Directing work of Department .....	32.07
69. Work for Street Dept. ....	4.41
100. Assessor's plats for City....	73.68
131. Municipal Garage .....	70.16
142. Jackson ave. pavement.. ...	1.16
146. Catherine, 4th ave. and Detroit st. pavement .....	30.56
157. Housing code .....	11.34
163. East University ave. pavement .....	25.29
167. Sanitary and storm sewer survey and design .....	6.24
168. Repaving West Huron st....	.81
169. City Coal and Cement shed	10.95
170. State st. storm sewer .....	4.55
171. Hill st. storm sewer.....	3.54
172. Fackard st. storm sewer....	1.91
173. North Main st. storm sewer	1.92

\$598.91

\$598.91

Sewer Work—

G. H. Sandenburgh .....	\$ 18.71
H. R. Scovill .....	23.98
V. W. McAdam .....	4.87
J. Lohrke .....	87.75
St. Comm. roll .....	28.25

10. Sanitary sewer maintenance.	\$148.90
11. Storm sewer maintenance....	13.68
58. Tapping sanitary sewers ....	.98

\$163.56

\$163.56

Total amount of expenditures .... \$762.47

\*Chargeable to Street Department.. 4.41

Respectfully submitted GEO. H. SANDENBURGH.

**Street Commissioner's Report,  
March, 1920.**

Ann Arbor, Mich., April 10, 1920.  
Hon. Board of Public Works, Joseph L. Arndt, President: Gentlemen—Following is a report of work done by the Street Department during the month of March, 1920:

This report covers Feb. 26-March 31, 1920:

Taking care of snow, labor—	
Cleaning snow from crosswalks and gutters .....	\$ 79.45
Opening inlet, steam.. ..	111.20
Plowing snow from gutters .....	0.45
Cleaning ice from inlets.. ..	7.30
Pumping inlet Division and William st .....	3.37
	<hr/> \$201.77

Cleaning paved streets, labor and teams .....	643.69
Miscellaneous work and repairs, labor .....	119.98
(Repairs lanterns, 50c; piling brick, city yd., \$2.00; making street sweeper brooms, \$8.68; repairs and painting sprinkler, \$15.90; repairs and painting wagons, \$29.53; repairs and paint-	

ing bob sleds, \$17.10; repairs horse sweeper, \$1.10; cleaning at 4th wd. polls, 50c; repairs motors sweeper, \$29.25; repairs pump, \$1.93; pumping cellar, No. 800 Gott, \$2.54; setting street signs, \$1.50; clearing up at city yard, \$5.25; repairs street Department runabout, \$2.26; repairs drag, \$1.50; work on stand pipe, 50c.)	
Clearing crosswalks, labor .....	10.20
Grading, graveling and patching dirt street, labor .....	210.40
(Graveling (cinders): Pauline boulevard, Hill, 5th ave., north end Detroit st., Granger, Moseley, N. Main, Depot st.; grading, (filling holes) sewer ditch Jones and Mill road (for Eddy & Son).)	
Grading dirt street with scrapers, drags, team and tractor, labor .....	214.96
Cleaning inlets, labor .....	3.25
Cleaning alleys, labor .....	4.17
Cleaning gutters on dirt streets, labor .....	314.15
(5th ave., 4th ave., Hamilton Place, Thompson, Maynard,	

E. Ann, E. Catherine, Lawrence, E. Madison, Hill, Forest ave., Forest court, Willard, College, Wells, Prospect, E. University, Vaughn, Greenwood, Tappan, Oakland, Roosevelt, Haven. Monroe, Vinewood, Oxford.)

Total .....\$1,725.57  
Respectfully submitted, A. J. PAUL,  
Street Commissioner.

### Annual Report of Fire Department.

To the Honorable Board of Fire Commissioners: Gentlemen — I here submit the 31st annual report of Fire Department from April 1st, 1919, to March 31st, 1920:

We have same equipment as last year.

Total number of fire, 219.

Laid 13,200 feet of hose.

Used 1,400 gallons of chemicals.

Used 2,931 feet of ladders.

Traveled 373 miles.

Supplies on hand: about same as in last year's report.

Total expense of operating department for year, \$25,853.52.

Insurance on building and contents where fires occurred, \$448,900.00.

Loss on buildings and contents where fire occurred, \$30,645.00.

In closing I wish to extend my thanks to His Honor, the Mayor, and all city officials for courtesies shown to members of the department and myself.

CHAS ANDREWS, Chief of Fire Department.

Report of City Treasurer, Clerk, Engineer and Street Commissioner for month of March and annual report of Chief of Fire Dept. received and ordered to take usual course.

Report of Engineering Commission on rates for fully metered water system received from Water Commissioners, and on motion of Ald. Lutz referred to meeting of Council and Water Commission as a committee of the whole to be called by Pres. Lewis.

City Attorney Frank B. DeVine made oral report of attendance at hearing of petition of Washtenaw Gas Company before the Michigan Utilities Commission and informed Council that hearing was adjourned so that briefs could be presented.

City Clerk made oral report of necessity of changes in lavatories at City Hall before re-decorating

interior of building, and on motion of Ald. Henderson the matter was referred to Finance committee.

By Ald. Moore: That the City Clerk be directed to order city telephones transferred when new officials are elected or appointed.

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

By Ald. Lutz: Resolved, that the heads of all city departments prepare an itemized statement of approximate expenses of their respective departments for the ensuing year, said statements to be filed at City Clerk's office not later than May 6th.

Resolved, further, that a committee of the whole be held Monday May 10, 7:30 p. m., at Board of Public Works room, for the purpose of preparing budget for the ensuing year.

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

Moved by Ald. Lutz, that Water Commissioners be requested to present a statement before May 10, of amount of money available for redemption of Water Works bonds and coupons. Adopted.

By Ald. Reichert: Whereas, at a meeting of the committee of the whole held April 16, 1920, the following recommendations were adopted, therefore be it

Resolved, that the salaries of City Clerk, City Assessor and City Treasurer are each hereby fixed at \$2,300.00 per year and the salary of City Attorney at \$2,000.00 per year, all payable in equal monthly installments and beginning April 1st, 1920.

Resolved, further, that a meeting of the Council as a committee of the whole be called by the President, previous to the meeting to consider the budget, to determine the salaries of officials and employes for the ensuing year and at which meeting the various Boards be requested to be present.

Adopted by the following vote: Yeas, Ald. Slauson, Ehnis, Haarer, Henderson, Lucas, Groves, Donnelly, Moore, Spathelf, Freeman,



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

Moved by Ald. MacGregor, that Ald. George Spathelf be granted \$15.00 for services on election day and City Clerk instructed to draw warrant for same.

Adopted by the following vote:  
Yeas, Ald. Slauson, Ehnis, Haarer,

Henderson, Lucas, Groves, Donnelly, Moore, Freeman, MacGregor, Reichert, Lutz, Pres. Lewis, 13. Nays, none. Ald. Spathelf not voting.

On motion of Ald. Donnelly, Council adjourned.

ISAAC G. REYNOLDS,  
City Clerk.



# Report of Engineering Rate Commission on Rates For a Fully Metered Water System

---

Ann Arbor, Michigan  
March 31, 1920

To the Honorable,

The Water Committee of the Common Council, and Board of Water Commissioners of the City of Ann Arbor, Michigan.

Gentlemen:—

The Commission appointed for the purpose of recommending rates for a fully metered Water Works System of the City of Ann Arbor, transmit herewith their Report.

The revenue to be derived from the different classes of beneficiaries of the Water Works System are classified as follows:

General Municipal Service  
Metered Service, and  
Miscellaneous Service

For General Municipal Service we recommend the following schedule:

General Service .....\$2,000.00 per month  
Hydrant Service ..... 7.50 per year per hydrant  
Flush Tank Service ..... 4.00 per year per connection

For Metered Service we recommend the following schedule:

For the first 1500 cubic feet (11,250 gallons) per quarter year, supplied through a single meter, the rate shall be 15c per 100 cubic feet (20c 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 9c per 100 cubic feet (12c 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 6c per 100 cubic feet (8c per 1,000 gallons).

A discount of 10% on all bills rendered at the above rates shall be allowed when such 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. For Miscellaneous Service we recommend substantially the charge now in force.

The Commission recommends further that the foregoing rate schedules shall be subject to readjustment at the end of the first two years of their operation and at the end of each five-year period thereafter.

The Report following discusses factors affecting our recommendations and suggestions relative to its application, all of which is

Very respectfully submitted,

RATE COMMISSION

H. E. Riggs  
A. J. Decker  
G. H. Sandenburgh  
W. C. Hoad  
L. E. Ayres  
H. K. Holland

REPORT  
of  
ENGINEERING RATE COMMISSION  
on  
RATES FOR A FULLY METERED WATER SYSTEM  
for the  
CITY OF ANN ARBOR, MICHIGAN

This Report covers the findings of the Commission of Engineers appointed by joint action of the Water Committee of the Common Council and the Board of Water Commissioners for the purpose of recommending rates for water based on a fully metered system and charges for fire protection, flush tanks and other general city benefits.

At the municipal election on April 7, 1919, a bond issue for \$75,000 to purchase and install water meters on the services of all consumers in the City of Ann Arbor, was approved. Just prior to April 7th the Common Council, meeting as a committee of the whole, adopted the following resolution which was confirmed by the Common Council at the regular meeting of April 10, 1919.

"BE IT RESOLVED, that if the proposed \$75,000 bond issue for meters is approved at the coming city election it will be the desire and purpose of the Council to secure the adoption and operation of a new schedule of water rates which shall include the following features, namely:

1. A minimum charge of 50c a month to each consumer, with an allowance of 50c worth of water under this minimum, instead of the "Service Charge" of 50c a month as previously discussed.
2. A quantity schedule with the rate for small consumers not higher than the present meter rate of 20c a thousand gallons, and as much lower than this figure as operating conditions may be found to permit.
3. A fair and equitable distribution of the total burden of the water plant among domestic, commercial, industrial and other classes of water users and among individual consumers of the same class.
4. A total income from operation equal to the actual cost of financially supporting the water plant plus ten per cent of such cost to provide for ordinary extensions; and a revision of rate schedules whenever necessary to hold the total income approximately at this point."

In accordance with this resolution the Water Committee of the Common Council and the Board of Water Commissioners appointed the following as members of the Water Rate Committee:

Professors H. E. Riggs, W. C. Hoad and A. J. Decker and Messrs. L. E. Ayres, G. H. Sandenburgh and H. K. Holland.

The Commission has had numerous meetings to consider and analyze data regarding the Water Works System collected under their direction, to formulate the principles of the distribution of the charges for service, and to determine the rates that in their opinion would equitably distribute the costs of service to the various beneficiaries of the service and would return the revenue necessary for the operation of the Water Works System.

The essential data used, the principles adopted and the rates determined are grouped in the following under headings indicative of the subject.

## INVESTMENT

The total amount of money which the City has put into the Water Works Plant and system not including replacements of old equipment outgrown or worn out in service, is shown in the accompanying table:

### INVESTMENT IN THE WATER WORKS SYSTEM ANN ARBOR, MICHIGAN MARCH 31, 1920

Real Estate .....	\$ 36,393.90
Water Rights .....	7,793.52
Improvements to Land .....	8,472.09
Pumping Stations and other Buildings .....	38,681.01
Pumping Station Equipment .....	46,273.99
Wells and Suction Piping .....	108,650.33
Chlorine Apparatus .....	1,377.93
Distribution System .....	616,649.01
Meters .....	80,140.44
Reservoirs .....	23,418.70
Office Furniture and Fixtures .....	2,311.51
Tools and Construction Equipment .....	6,262.67
Utility Equipment .....	1,681.90
	\$978,107.00

The total of \$978,107.00 was taken from the books of the Water Department which were opened with the amount actually paid for the property at the time of taking over the property, to which has been added the actual costs of all new property (not including replacements) added since that time.

## BONDED INDEBTEDNESS

The total amount of bonds issued in connection with the Water Works property with the rates of interest are the following:

Purchase of Property .....	\$450,000	Int. Rate 4%
Steere Farm Property .....	20,000	Int. Rate 5%
No. 3 (Steere Farm) Station and Main .....	245,000	Int. Rate 5%
Meters .....	75,000	Int. Rate 5%
	\$790,000	

Up to the present time \$22,000 of the Purchase Bonds and \$10,000 of the Steere Farm Property Bonds have been paid by the City, and there is an unexpended balance of \$32,878.55 specifically reserved for constructions at No. 3 Pumping Station and the purchase and installation of meters. This leaves \$725,121.45 as the present outstanding indebtedness on Water Works Property in which \$978,107.00 has been invested.

## DEPRECIATION

Depreciation as used here includes wearing out from use, obsolescence, inadequacy and the like, of the property in rendering service to the consumers. This item of expense is met by charging consumers annually such amounts as will, when put at interest, refund the original cost of the property or part thereof at the end of its useful life.

The Water Works Department has set up on their books a reserve covering this depreciation, computed on a 4% sinking fund basis. The life of the various elements of the property and the equivalent annual percentage of the original cost chargeable to consumers are shown in the following table:

**DEPRECIATION RESERVE  
BASED ON 4% SINKING FUND**

Item	Life	Equivalent Annual % of Original cost.
Land .....	Indefinite	0
Improvements to Land .....	50 yrs.	0.7
Buildings, Brick .....	33 $\frac{1}{3}$ yrs.	1.5
Boiler and Equipment .....	20 yrs.	3.3
Steam Pumping Equipment .....	33 $\frac{1}{3}$ yrs.	1.5
Electric Pumping Equipment .....	30 yrs.	1.8
Suction Wells and Piping .....	50 yrs.	0.7
Wells and Piping .....	50 yrs.	0.7
Chlorine Apparatus .....	10 yrs.	8.35
Buildings, Wood .....	20 yrs.	3.3
Wrought Iron Pipe .....	20 yrs.	3.3
Water Rights .....	Indefinite	0
Cast Iron Pipe .....	100 yrs.	} Aver. 0.2
Gates, Hydrants and Stand Pipe .....	33 $\frac{1}{3}$ yrs.	
Meters .....	10 yrs.	8.35
Services and Flush Tank Connections .....	30 yrs.	1.8
Reservoir .....	50 yrs.	0.7
Elevated Tank .....	33 $\frac{1}{3}$ yrs.	1.5
Office Furniture and Fixtures .....	20 yrs.	3.3
Tools and Construction Equipment .....	20 yrs.	3.3
Utility Equipment .....	10 yrs.	8.35

**OPERATING EXPENSES**

The Commission has reviewed the operating costs of the past several years, and has estimated the next years operating expenses based on pumpage of water under a fully metered system to be as follows:

Wages, supplies, electrical energy, fuel, repairs and incidentals at the Pumping Stations .....	\$27,655
Wages and materials of Inspection, maintenance and repair of meters .....	5,000
Wages, supplies and expenses of the office; the wages and expenses of Management and Supervision; and the general expenses of the Water Works System ....	23,090
Labor and materials of maintenance and repairs to the distribution System and Services .....	1,700

Operating Expenses .....

\$57,445

This estimate includes a reasonable allowance to meet the rising costs of labor and materials. It is estimated that in the future the increase of revenues will keep pace with the increase of operating expenses as greater amounts of water are used.

**TOTAL ANNUAL COST**

The total annual cost to be met by revenues from those receiving benefits from the Water Works System is made up of the following items:

Operating Expenses .....	\$ 57,445
Interest on Outstanding Bonds .....	35,620
Reserve for Depreciation .....	12,000
10% of foregoing for current extensions to the Water Works System .....	10,500

Total Annual Cost .....

\$115,565

The last item of the foregoing schedule is included in accordance with the resolution of the Common Council to provide for current extensions to the mains and services that would otherwise require moneys from taxation or bond issue for small extensions to mains and the service installations normally required each year. The item of interest includes an allowance of \$2,000 to cover interest on such bonds as may be issued to purchase Water Rights at the Steere Farm.

### ANNUAL REVENUE

The revenues of the Water Works Department should be sufficient to cover the foregoing total Annual Cost and should be apportioned to those receiving service directly or indirectly from the Water Works Department.

The Commission has classified the services rendered by the Water Works Department as follows:

- General Municipal Service
- Metered Water Service
- Miscellaneous Service

The General Municipal Service covers all those benefits which are chargeable to the tax payers as a whole, and includes the additional cost of the plant for fire protection over what would be required for furnishing water to consumers alone; the increased value of the property in the City due to the existence of a water works system; the intangible value of the good health of the Community due to a pure water supply; the additional benefits of good water pressure in all parts of the City occasioned by having trunk mains supplementing the mains which supply the individual consumers; all general and special benefits of fire protection, including the installation and maintenance of fire hydrants and the furnishing of water under pressure for the extinguishment of fires; and the use of water for flushing the sanitary sewers.

The Metered Water Service includes all water supplied to Consumers through meters. This division is further sub-divided into Domestic, Intermediate and Factory metered water service. The first of these groups, or Domestic service, covers water for general household, office and store use, and the cost of furnishing pure water over the cost of furnishing unpurified water. The Intermediate Service covers lawn sprinkling and water used by small factories, shops, restaurants, boarding houses, and many of the club houses and larger residences. The Factory Service covers large quantities of water taken through single meters.

The Miscellaneous Service group includes water supplied Contractors, tapping the main for services, turning services off and on, and the like.

### REVENUE FROM GENERAL MUNICIPAL SERVICE

The revenue to be derived from the General Municipal Service was carefully studied by the Commission from the standpoint of costs of the service rendered and comparison with charges made in other cities for like service.

The General Municipal Service charges were divided into three groups, for which the Commission recommends the following charges:

- General Service .....\$2,000.00 per month
- Hydrant Service ..... 7.50 per year per hydrant
- Flush Tank Service ..... 4.00 per year per connection

The General Service charge covers all the service rendered the community as a whole as enumerated above. This charge is intended to be applicable only to the present distribution system and is to be increased as the distribution system is extended in proportion to the increase in

mains laid, in accordance with the following plan. When new mains are laid by the Board of Water Commissioners at the request or with the approval of the Common Council additional general service charges are to be made therefor, until the date of the approval of the next following rate adjustment, at the rate of \$400 per year per mile in the case of 6-inch mains and at higher rates for mains larger than 6-inch determined by adding \$100 per mile per year for each 2-inch increase in diameter over 6-inch. Smaller mains than 6-inch, services and meters are not included under this charge. This additional charge for the Municipal service shall take effect from the time of the completion and putting into service of extensions to the distribution system.

The hydrant and flush tank service charges cover the inspection, maintenance and repairs, and the interest, and the depreciation on the investment in the hydrants and in flush tank connections. The charge for flush tank service includes the estimated cost of the water used.

On January 31, 1920, there were 288 City fire hydrants connected to the Water Works Distribution System. The number of hydrants per mile of distribution water mains of the City of Ann Arbor, compared with other cities of the same size, is less than half the number found to be requisite to offer first class fire service in the business and residential districts. The present method of basing the Municipal Service Charge of the Water Works System entirely upon the number of fire hydrants in the distribution system is wrong in principle, and therefore has been discarded.

If the number of hydrants should be increased to substantially equal the same number per mile of main as is found in adequately protected cities, and if the former hydrant rental rate should be applied to this enlarged number, the amount obtained would practically equal the total Municipal Service Charge above recommended.

#### REVENUE FROM METERED WATER SERVICES

The revenue to be derived from the metered water service was determined from a study of the cost of rendering service to the several classes of the metered consumers and by comparison with rates offered in cities of similar size where conditions are substantially the same as those which prevail in Ann Arbor.

In accordance with the resolution of the Common Council, the form of rate must be such "that a minimum charge of 50c a month to each customer with an allowance of 50c worth of water under this minimum" be included.

The form of the existing meter rate meets this requirement in some particulars, but is open to serious objection in others. Near the change point of the rate schedule the customer may by wasting water and thus increasing his meter reading to where a lower rate takes effect reduce the total amount of his bill. For this reason this type of rate is not recommended.

The meter rates for water which this Commission recommends are the following:

For the first 1500 cubic feet (11,250 gallons) per quarter year, supplied through a single meter, the rate shall be 15c per 100 cubic feet (20c 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 9c per 100 cubic feet (12c 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 6c per 100 cubic feet (8c per 1,000 gallons).

A discount of 10% 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.

### REVENUE FOR MISCELLANEOUS SERVICES

The Commission recommends that revenues to be derived from miscellaneous services be based upon charges substantially the same as those now being made by the Water Works Department, excepting that whenever possible water supplied for miscellaneous temporary use be sold by meter measurement; and that the tapping charge shall be such as will return to the Water Works Department the cost of labor and materials plus 10% of such cost to cover overhead, lost time, use of equipment and the like.

### TOTAL ANNUAL REVENUE

The total annual revenue from all classes of Consumers receiving benefits from the Water Works System, and based on the recommendations of the Commission, are estimated to be as follows:

GENERAL MUNICIPAL SERVICE .....		\$26,764
General, fire protection, good water, increased property values, public health, good pressure and other public benefits.		
\$2,000 per month .....	\$24,000	
Maintenance of Fire Hydrants and use of water for fires.		
288 hydrants at \$7.50 per year .....	2,160	
Use of water for flushing the sanitary sewers.		
151 connected flush tanks at \$4.00 per year ..	604	
METERED WATER SERVICE .....		82,464
Domestic Service		
17,100,000 cu. ft. at .15 per 100 cu. ft. ....	25,650	
Intermediate Service		
15,640,000 cu. ft. at .15 per 100 cu. ft. ....	23,460	
29,400,000 cu. ft. at .09 per 100 cu. ft. ....	27,460	
Factory Service		
84,000 cu. ft. at .15 per 100 cu. ft. ....	126	
5,120,000 cu. ft. at .09 per 100 cu. ft. ....	4,608	
13,500,000 cu. ft. at .06 per 100 cu. ft. ....	8,100	
		\$89,404
Discount of 10% .....	8,940	
		\$80,464
Excess from minimum charge over charge for water .....	2,000	
MISCELLANEOUS SERVICE .....	\$ 5,960	
Contractors and Miscellaneous Revenue .....	\$ 2,360	
Tap Account .....	3,550	
Off and On .....	50	

\$115,188

The amount of revenue from all classes of Consumers is estimated to be \$115,188, and is substantially equal to the total annual cost which is estimated to be \$115,565 as shown on page 4.

### PAYMENT OF MUNICIPAL CHARGES

The City Treasurer is at the present time custodian of all moneys collected by the Water Works Department and of the avails of the bond issues. All bonds authorized for funds for the Water Works Department are City Bonds.

In order to simplify the transfer of payments between the Water Works Department and the City, the Commission suggests the following procedure:

That the City Treasurer, upon receipt of the monthly invoice from the Water Works Department for General Municipal Service charges, and following approval of such invoice by the Common Council, shall transfer to the Water Works Department Fund the amount of such invoice.

That the Water Works Department shall render a voucher monthly transferring from the Water Works Department Fund to the City Treasurer, one-twelfth of the annual interest on outstanding Bonds and one-twelfth of the depreciation reserve fund as determined at the beginning of each fiscal year.

The fund for Depreciation thus transferred may be used by the City in retiring Bonds or for making extensions in excess of the amounts allowed for current extensions, services and meters.

### REVISION OF RATES

The Commission recommends that about the end of the first two years of operation under the foregoing schedules, and at the end of each five-year period thereafter, the rates shall be adjusted so as to produce a total income from operation equal to the cost of financially supporting the Water Works Plant plus ten per cent of such cost to provide for ordinary extensions, and to distribute the total burden fairly and equitably among domestic, commercial, industrial and other classes of beneficiaries of the water service.

---

Presented to Common Council of City of Ann Arbor at regular meeting on May 3rd, 1920 by Board of Water Commissioners.  
Adopted by Common Council at regular meeting on May 3rd, 1920.