

Council Chamber,
Ann Arbor, Mich.
February 3, 1930

REGULAR SESSION

Meeting called to order by President Myers.

Present: Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Kurth, Severance, Freeman, Lutz, Pres. Myers, 10.

Absent: Ald. Bradley, Townley, Fisher, 3.

Printed pamphlets of January 20 were approved.

Communications

(From Board of Public Works)

On request of President Hutzel, City Engineer reported on the two types of treatment works considered for sewage disposal and recommended an Imhoff Tank Trickling Filter Plant as best suited for Ann Arbor's needs.

Moved by Mr. Corbett and supported by Mr. Atwell that the bid of Ayres, Lewis, Norris and May, being the lowest bid, we therefore recommend to the Common Council that they be retained as consulting engineers for the design and construction of the sewage disposal plant under supervision of the Board of Public Works.

Adopted by the following vote: Yeas, Messrs. Corbett, Atwell, Rentschler, Rehberg, Menefee, Heinzmann, Pres. Hutzel, 7. Nays, none.

(Council Action)

Action deferred until later in meeting.

From Board of Police Commissioners, reporting Traffic Bureau forfeitures for month of January at \$65.00 received and ordered on file.

Enter: Ald. Bradley.

From P. L. Radcliffe, Manager Eastern Michigan Motorbus, re-

questing change in time on so-called Washington - Washtenaw route received.

Moved by Ald. Freeman that Eastern Michigan Motorbuses be allowed to make suggested change in time table.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Severance, Freeman, Lutz, Pres. Myers, 11. Nays, none.

From Dr. John A. Wessinger, Health Officer, asking permission for Mr. Stricklen, Dairy Inspector, to attend meeting at Saginaw on February 4th was received.

Moved by Ald. Schlenker that request be granted.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Severance, Freeman, Lutz, Pres. Myers, 11. Nays, none.

From Dr. Wessinger, Health Officer, recommending that machinery be installed to demolish abandoned automobile bodies and accessories, was received and matter referred to Park and Sanitary Committee.

Enter: Ald. Fisher.

From Oscar McDougall et al. relative to roof water being allowed to run into Sanitary Sewers, causing alleged backing up of sewage and dirt through floor drains into cellars, was received.

Moved by Ald. Lutz that matter be referred to Board of Public Works with power to act.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Severance, Freeman, Fisher, Lutz, Pres. Myers, 12. Nays, none.

Moved by Ald. Lutz that action of Board of Public Works in recommending Ayres, Lewis, Norris and May as consulting engineers for sewage disposal plant be concurred in.

Said concurrence to be conditioned upon the raising of the neces-

sary funds by the issuance of bonds of this city; it being understood that in the event that a bond issue fails to carry by the necessary majority that the City assumes no liability in approving said action.

Substitute motion: Moved by Ald. Fisher that action be deferred and matter to be considered at a committee of the whole meeting to be at the call of the President.

Substitute motion adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Severance, Freeman, Fisher, Lutz, Pres. Myers, 12. Nays, none.

Committee Reports Finance Report

CONTINGENT FUND

Edward W. Staebler, salary	\$ 41.66
Fred C. Perry, salary	275.00
Clarence J. Sweet, salary	175.00
Esther Russell, salary	125.00
Leona Rohde, salary	100.00
Herbert W. Crippen, sal..	266.66
Timothy P. Stowe, salary	150.00
Ernst M. Wurster, salary	250.00
Fred J. Looker, salary	175.00
George H. Sandenburgh, salary	400.00
H. R. Scovill, salary	275.00
Julius Lohrke, salary	145.00
Clara Mast, salary	125.00
John A. Wessinger, salary	250.00
John T. Kenny, salary	200.00
Owen A. Stricklen, salary	158.33
Marguerite Hannan, salary	108.33
Theron S. Hill, salary	75.00
Frank Marz, salary ½ mo.	78.50
Carl A. Iehman, salary	183.33
Cora Green, salary	50.00
Claud F. Hartman, salary	200.00
Fred J. Staeb, sal. ½ mo.	62.50
Contingent Fund total salaries	\$3,869.31

FIRE FUND

Chas. Andrews, salary	\$ 114.50
Henry McLaren, salary ..	91.50
Ralph Edwards, salary	91.50
Jacob Gwinner, salary	83.00
Herman Kruse, salary	83.00
Frank Markey, salary	78.50
Emil Damman, salary	78.50
Earl Arnold, salary	78.50
Benj. Zahn, salary	78.50
Henry Nevroth, salary	78.50
Arthur Clark, salary	78.50
Clyde Carpenter, salary ..	78.50
John Comiskie, salary	78.50
Walter Feldkamp, salary ..	78.50
Percy Whitlock, salary	78.50
Edw. Zeeb, salary	78.50
Geo. Schmidt, salary	78.50
Henry Kolander, salary ..	78.50
Albert Hoffman, salary ...	78.50
Elmer Rentz, salary	78.50
Oscar Rentz, salary	78.50
Earnst Heller, salary	78.50
Ira Nevarre, salary	78.50
Frank Ryan, salary	78.50
Laurence Chatterton, sal.	78.50
John Waterman, salary ..	78.50
Wm. Keihl, salary	78.50
Carl Nevins, salary	78.50
Fred Wadhams, salary	78.50
Harold Gauss, salary	78.50
Chas. Carroll, salary	45.00

Fire Fund total salaries
½ month of January2,471.00

POLICE FUND

Thomas O'Brien, salary ..\$	125.00
Louis Fohey, salary	90.00
Norman Cook, salary	90.00
Sherman Mortenson, salary ..	90.00
M. G. Howard, salary	80.00
Chas. Kapp, salary	80.00
Irwin Keebler, salary	80.00
Harold Gee, salary	80.00
Benj. Ball, salary	80.00
Roland Wooster, salary	80.00

Herman Suma, salary	80.00
Oscar Wier, salary	80.00
Julius Ehnis, salary	80.00
Walter Schmid, salary	80.00
Albert Heusel, salary	80.00
John Osborn, salary	80.00
Wm. Marz, salary	63.96
Harry Smith, salary	80.00
Clifford West, salary	80.00
Casper Michaelson, salary	80.00
Wm. Hitchingham, salary	80.00
Clark Earl, salary	80.00
Roy Richter, salary	80.00
Irwin Davisson, salary	80.00
Eugene Gehringer, salary	80.00
Harold King, salary	80.00
Clifford Stang, salary	72.50
Herbert Kapp, salary	72.50
Floyd Gentner, salary	72.50

Police Fund Total salaries ½ mo. of Jan.\$2,356.46

POOR FUND

Geo. McCollum, salary\$	50.00
Edwin Ganzhorn, salary .	50.00

Poor Fund total sal.\$ 100.00

CEMETERY FUND

Geo. McCollum, salary\$	105.00
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WATER WORKS FUND

Geo. S. Vandawarker, sal. \$	270.00
Leslie J. Bush, salary	250.00
Owen E. Stricklen, salary	50.00
Verl Larmee, salary	20.00
Wm. Rohde, salary	20.00
John Lindenschmitt, salary	20.00
Robert Norris, salary	20.00

Total monthly salaries \$ 650.00

Harry Willsher, salary	72.50
Waldo Eisemann, salary .	75.00
Fred Linde, salary	87.50
Robert Rowe, salary	70.00
Fred Rowe, salary	50.00

William Zachman, salary.	62.50
A. E. Hawkes, salary	70.00
C. W. Shetterly, salary ..	100.00
Donna Woodward, salary.	62.50
William Groves, salary	70.00
J. C. Ledwidge, salary	70.00
John Ardner, salary	62.50

Total semi-monthly sal. \$ 852.50

PARK FUND

E. A. Gallup, salary	\$ 300.00
Edna Spiegelberg, salary.	25.00

Total Park Fund sal.\$ 325.00

STREET FUND

A. J. Paul, salary	\$ 250.00
Edna Spiegelberg, salary	90.00
John Webber, salary	125.00

Street Fund total sal. ..\$ 465.00

Following warrants issued since last report:

CONTINGENT FUND

7564 Alton W. Bolgos, Ann Arbor Township Treasurer, taxes	\$ 36.07
Arbor Township Treas-	

STREET FUND

New City Yards

7561 Hutzell & Company, 2nd estimate	\$ 400.00
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WATER WORKS FUND

Water Works Refunding

7560 State Savings Bank, 9 c	\$ 191.25
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SEWER LABOR ACCOUNTS

District No. 175

7562 United Construction Co., 5% retained	\$ 62.12
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District No. 176

7562 United Construction Co., 5% retained	\$ 71.17
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District No. 177

7562 United Construction Co., 5% retained	\$ 43.36
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Total Sewer Labor Accounts	\$ 176.65

ray-Washington Drain n'ly) 46.81

7565 United Construction Co., 5% retained (Onondaga St. Storm Sewer, Geddes Ave. to Seneca Ave.) 38.56

BRIDGE, CULVERT AND

C. W. Fund

7563 R. T. Liddicoat, 5% retained (Sunset Road Storm Sewer, N. Main to Spring St.) 154.63

7563 R. T. Liddicoat, 5% retained (Awixa Road Drain to Lenawee Dr.) 80.86

7563 R. T. Liddicoat, 5% retained (S. Seventh St. Storm Sewer, Madison to Pauline Blvd.) 139.01

7563 R. T. Liddicoat, 5% retained (Monroe St. Storm Sewer, Packard St. e'ly) 28.40

7563 R. T. Liddicoat, 5% retained (Koch Ave. Storm Sewer, First St. to Third St. 26.66

7563 R. T. Liddicoat, 5% retained (Wilmot St. Storm Sewer, Washtenaw Ave. to Mack Road) 36.52

7563 R. T. Liddicoat, 5% retained (N. University Ave. Storm Sewer, Camden Court e'ly) 24.82

7563 R. T. Liddicoat, 5% retained (Rose Ave. Storm Sewer, Golden Ave. to White St. 90.52

7563 R. T. Liddicoat, 5% retained (E. Univ. Storm Sewer, Packard to Monroe, Prospect St., E. University to Church St.) 741.18

7565 United Construction Co., 5% retained (Abbott Ave. Storm Sewer, Revena Blvd. w'ly to end) 292.64

7565 United Construction Co., 5% retained (Buena Vista Storm Sewer, Mur-

7565 United Construction Co., 5% retained (Montgomery Ave. Storm Sewer, Abbott Ave. to W. Washington St.) 30.84

7565 United Construction Co., 5% retained (Highland Road Storm Sewer, Lenawee Drive, Awixa to Concord 58.97

Total\$1,790.42

Less work done by Street Department 30.00

Total Bridge Cul. and C. W. Fund\$1,760.42

PAVEMENT TAX ACCOUNT

District No. 46

7326 City Treasurer, B. & C.\$ 3.00

CONTINGENT FUND

Municipal Garage

Detroit Edison Co., N-P service\$ 15.20

ENGINEER DEPARTMENT

Geo. Bleekman, services ..	\$ 36.00
K. W. Donnell, services ..	87.50
Alex Jarowski, services ..	49.50
Art Jones, services	10.00
Wm. Maulbetsch, services	100.00
V. W. McAdam, services .	100.00
F. Schmid, services	75.00
Willard Ponto, services ..	6.60

Engineer Dept., total salaries\$ 464.60

Harold and Viola Foulks, services	50.00
Mrs. Johanna Vogel, services	24.50
Emma Wurster, services ..	59.40
Detroit Edison Co., N-P. services	179.92
Michigan Bell Telephone Co., N-P services	1.00
Washtenaw Gas Co., N-P services	4.44
Edward Besch, collecting garbage	1,925.00
Charles Henning, labor at dump	50.00
Frank Kapp, labor at dump	50.00
Jennie Matthews, rent	50.00
Varsity Linen Supply Dept., office expense	8.80
Geo. W. Efner, contingencies	26.18
Clyde C. Kerr & Sons, contingencies	10.50
Outdoor Advertising, contingencies	5.00
Fred C. Perry, contingencies	4.00
Rendel Upholstering Co., contingencies .....	.75
Fred J. Knight, contingencies	2.60
Royal Typewriter Co., equipment	5.38
Millard Press, printing ...	25.80
Kyer-Whitker Co., laboratory	4.70
Ann-A Fuel Co., fuel	53.00
City of A. A. Municipal Garage, M. Garage (Health Dept.)	91.53
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Total	\$2,632.50
Contingent Fund total, including salaries	\$6,981.61

FIRE FUND

Detroit Edison Co., N-P service	\$ 17.41
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Washtenaw Gas Co., N-P service	13.20
Eaton-Clark Co., materials	2.04
C. H. Kittredge, materials	4.28
Kyer Laundry Co., office expense	16.78
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Total	\$ 53.71
Fire Fund total, including salaries	\$2,524.71

POLICE FUND

Michigan Bell Telephone Co., N-P service	\$ 11.90
Koch & Henne, equipment	26.75
A. A. Buick Service Co., repairs	8.99
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Total	\$ 47.64
Police Fund total, including salaries	\$2,404.10

POOR FUND

Anna Spathelf, supplies ..	\$ 24.08
Pierce Grocery, supplies ..	152.97
Steve Brousalis, supplies	39.00
Mrs. Chas. S. Foster, rent	25.00
G. E. Waterman, rent	25.00
Ann Arbor Street Dept., hauling coal	11.00
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Total	\$ 277.05
Poor Fund total, including salaries	\$ 377.05

CEMETERY FUND

Chris Zahn, contingencies \$	12.00
Cemetery Fund total, including salaries	\$ 117.00

STREET LIGHTING FUND

The Detroit Edison Co., street lighting	\$2,737.77
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BUILDING SIDEWALK FUND

A. F. Thompson, contingencies	\$ 64.00
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WATER WORKS FUND		Claude Wyman, labor		59.40
Chas. F. Meyers Print Shop, office expense	\$ 14.00	Total	\$	383.63
N. S. Kline, materials	14.05	Detroit Edison Co., N-P service		10.76
The Bristol Company, materials	4.27	Mich. Bell Telephone Co., N-P service		3.50
Neptune Meter Co., ma- terials	7.13	Wm. H. L. Rohde, mate- rials		9.10
I. Friedman, materials	19.80	City of A. A. Municipal Garage, M. Garage		13.65
Henry S. Platt, materials	1.99	W. H. Butler, Agent St. Paul Airport Fire and Marine Insurance Co.....		37.25
Staebler & Son, materials	44.17	Wolf & Colvin, repairs.....		11.90
C. H. Kittredge, materials	.80	Total	\$	86.16
D. C. Prochnow, materials	1.50	Park Fund Total, includ- ing salaries	\$	794.79
Standard Oil Co., materials	12.45	STREET FUND		
Water Works Dept., materials	.62	L. G. Bird, labor	\$	58.80
Michigan Bell Telephone Co., N-P service	52.17	Otto Blaess, labor		62.40
City of A. A. Municipal Garage, insurance	301.71	Camdem Dempsey, labor..		58.20
City Treasurer, renewal and replacement expense	4,000.00	Fred Hanselman, labor.....		65.00
Total	\$4,474.66	Sam Kalmbach, labor.....		7.50
L. Gerrick, labor	62.40	Wm. Keppler, labor		59.80
H. Maier, labor	80.00	Samuel Lutz, labor.....		22.50
L. Furthmueller, labor	80.00	James Mason, labor.....		10.40
A. Jedele, labor	80.00	George Menice, labor		55.20
E. Mukensturn, labor	80.00	Michael Morhardt, labor...		38.00
O. D. Conger, labor	67.20	Christ Paul, labor.....		51.00
A. Gerstler, labor	20.80	Arthur Raus, labor.....		52.80
J. Duboloski, labor	4.80	Jake Strieter, labor.....		44.00
Louis W. Osborn, labor	60.00	Otto Schantz, labor.....		55.20
Total	\$ 535.20	John Shanahan, labor.....		57.60
Water Works Fund To- tal, including salaries.	\$6,512.36	Herman Stoll, labor.....		40.00
PARK FUND		Theodore Stollsteimer, la- bor		19.20
Geo. Davis, labor	\$ 59.40	Fred Ulrich, labor.....		36.55
Charles Foster, labor	56.93	Ike Warner, labor.....		52.80
Ben Foster, labor	64.80	Wm. Wayman, labor.....		12.00
Andrew Kieman, labor	59.40	Wm. Alber, labor.....		3.20
Geo. Mason, labor	29.70	J. A. Boyd, labor.....		1.60
Ezra Moore, labor	54.00	Howard Curd, labor.....		6.40
		Thomas Hessions, labor...		33.58

Art Jones, labor.....	12.80
Wm. Munz, labor.....	1.60
Geo. Nunn, labor	6.40
Del Packard, labor.....	1.60
Chas. Raab, labor.....	6.40
Jake Sindlinger, labor.....	3.20
Adam Stoll, labor.....	6.40
Art Thompson, labor.....	1.60
John Verran, labor.....	3.20
Art Washousen, labor.....	11.20
Chas. Youngbauer, labor..	29.60
Artificial Ice Co., team.....	5.00
John Moore, team.....	61.00
Guy Mullison, team.....	6.00
Louis Pelkey, team.....	8.00
Weinberg & Kurtz, team	17.00
Jake Young, team.....	16.00
Gus Godris, truck.....	10.00
Wm. Stratos, truck.....	10.00
Total	\$1,120.73

Street Fund Total, including salaries\$1,585.73

RECAPITULATION

Contingent	\$ 7,017.68
Fire	2,524.71
Police	2,404.10
Poor	377.05
Cemetery	117.00
Street Lighting	2,737.77
Building Sidewalk	64.00
Water Works	6,703.61
Park	794.79
Street	1,985.73
Bridge Culvert and C. W.	1,760.42
Total City Funds.....	\$26,486.86
Sewer Labor Ac- counts	\$176.65
Pavement Tax Ac- counts	3.00
Total Special Funds....	179.65
Grand Total	\$26,666.51

Ann Arbor, Mich., Feb. 3, 1930.
To the Finance Committee of the
Common Council.

Gentlemen:

I have examined the foregoing accounts against the City of Ann Arbor and I hereby certify that they are correct to the best of my knowledge.

FRED C. PERRY,
City Clerk.

To the Honorable, the Common
Council.

Gentlemen:

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

LEONARD C. SAUER
EMIL SCHLENKER
Finance Committee.

Ald. Sauer moved the adoption of the report, which was adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Severance, Freeman, Fisher, Lutz, Pres. Myers, 12. Nays, none.

Ald. Sauer presented following progress estimates approved by the Board of Public Works January 22, 1930:

Municipal Garage (Electrical Contract) — 2nd estimate, J. E. Beeler, contractor, amount due \$146.50.

Municipal Garage—6th estimate, C. Clay Kingsley, contractor, amt. due, \$765.77.

Moved by Ald. Sauer that estimate of C. Clay Kingsley be approved and Mayor and City Clerk authorized to draw warrant for amount due; that the estimate of J. E. Beeler be held over for further consideration.

Adopted by the following vote:
Yeas, Ald. Wuerth, Sauer, Graf,

Schlenker, Harris, Bradley, Kurth, Severance, Freeman, Fisher, Lutz, Pres. Myers, 12. Nays, none.

Ald. Sauer reported that Patrolman William Marz had been confined to his home by illness caused by being shot by bandits and in which he was not allowed time on regular pay roll for first period in January.

Moved by Ald. Sauer that Mayor and City Clerk be authorized to draw warrant in favor of William Marz for \$63.96 covering 12 days pay in January at \$5.33 per day.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Severance, Freeman, Fisher, Lutz, Pres. Myers, 12. Nays, none.

By Ald. Sauer:

Resolved, that the Mayor and City Clerk be authorized to draw a warrant in the sum of \$75.00 in full settlement of the claim of William Meyer against the City of Ann Arbor by reason of an accident between one of the City's trucks and the automobile of said Meyer upon the execution by him of a release to be approved by the City Attorney.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Severance, Freeman, Fisher, Lutz, Pres. Myers, 12. Nays, none.

Moved by Ald. Fisher that the Fire Commissioners reprimand the driver of the truck which, disregarding stop street sign, had struck the car of William Meyer.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Severance, Freeman, Fisher, Lutz, Pres. Myers, 12. Nays, none.

Ordinance Committee

Ald. Severance presented following Ordinance, which was given its third reading, and moved its adoption.

AN ORDINANCE TO AMEND AN ORDINANCE ENTITLED "AN ORDINANCE TO REGULATE AND CONTROL THE CONSTRUCTION, ERECTION AND MAINTENANCE OF SIGNS AND PROVIDE PENALTIES FOR THE VIOLATION THEREOF."

Passed Aug. 12, 1929; approved Aug. 13, 1929.

The Common Council of the City of Ann Arbor Ordain:

Section 1. That section seven of "An Ordinance to Regulate and Control the construction, erection and maintenance of signs and provide penalties for the violation thereof" be amended to read as follows:

Section 7. Every person, firm or corporation installing or maintaining one or more signs shall file with the City Clerk of the City of Ann Arbor a surety bond, which said surety bond shall run to the City of Ann Arbor, in the amount of One Thousand Dollars for each sign so installed, and which said bond shall be conditioned to keep and save harmless the City of Ann Arbor from any damage of any nature whatsoever arising or resulting from any privilege granted or conferred by this ordinance. Such bonds shall be executed by some surety company authorized to do business within the State of Michigan according to the laws thereof; provided, that a like bond in the sum of Ten Thousand Dollars shall be sufficient to cover any number of signs erected or to be erected by the same person, firm, or corporation unless otherwise provided by resolution of the Common Council.

Section 2. This ordinance shall take effect and be in force on and after ten days from legal publication.

Chair put the question, "Shall this Ordinance pass?"

Passed by the following vote: Yeas, Ald. Wuerth, Sauer, Graf,

Schlenker, Harris, Bradley, Kurth, Severance, Freeman, Fisher, Lutz, Pres. Myers, 12. Nays, none.

Report of Public Hearing

Ald. Severance presented report of public hearing on re-naming of certain streets, which was held on Monday, January 27, 1930, and same was ordered place don file.

Budget Committee

Ald. Fisher presented report of Committee of the Whole held on Monday, January 27, 1930, at 7:30 o'clock P. M., from which the following motion was adopted:

Moved by Ald. Bradley that Committee of the Whole recommend to Common Council that the firm of A. L. Duncan & Company be employed to install a system of accounting for the City of Ann Arbor at a cost not to exceed \$35 per day for the services of said firm. The employment contract to be approved by City Attorney and that Duncan and Company present auditors close the present audit as of February 1, 1930, also to commence new system as of that date.

Moved by Ald. Sauer that action be deferred and matter be discussed at a meeting of the whole, to be held at the call of the President.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Severance, Freeman, Fisher, Lutz, Pres. Myers, 12. Nays, none.

Water Committee

Ald. Schlenker presented report of Committee of the Whole held January 27, 1930, at 7:30 o'clock P. M., from which the following motion was adopted.

Moved by Ald. Fisher that Committee of the Whole recommend to Common Council that the proposition as submitted by the Water Commissioners to raise by bond the sum of \$325,000.00 for Water Works improvements be submitted

in 2 separate issues to the qualified electors at the election to be held on Monday, April 7, 1930.

Water Committee Report

Resolution by Ald. Schlenker:

Whereas, the Board of Water Commissioners of the City of Ann Arbor did on January 20, A. D. 1930, send a communication to this Council requesting that this Council arrange for a bond issue of three hundred twenty-five thousand dollars, to cover contemplated improvements to the distribution system of the city water supply plant, and

Whereas, the afore-mentioned Water Commissioners have presented the following estimates of the cost of the contemplated improvements as follows:

(1) 6,000,000 gallon, reinforced concrete covered reservoir with surface elevation at 10 feet higher elevation than present reservoir, with connection to water mains, \$110,000.00.

(2) Cast iron trunk line water mains, \$150,000.00.

(3) Connecting dead end mains and installing additional hydrants, \$45,000.00.

(4) Contingencies and engineering, \$20,000.00.

Total, \$325,000.00.

And have given the following explanation of the needs for the contemplated improvements and of the benefits to be derived therefrom and also a plan for the payment of their costs, to-wit:

The six million gallon reservoir is to replace the present two million gallon structure, which is an old open type structure and in bad condition. For years the old reservoir has not been considered safe to carry more than one million gallons storage, and this amount is dangerously inadequate. The proposed new reservoir is to be of reinforced concrete and entirely covered and of sufficient capacity to insure the city against a shortage

of water in the event of a bad fire. The covered reservoir will keep the water in better condition and at a lower and more uniform temperature.

The cast iron trunk line water mains are for strengthening and improving the distribution system and will insure adequate water at times of maximum demand to all parts of the city and slightly better pressures, and at a much more uniform and satisfactory quality to all consumers.

The new trunk line mains together with the contemplated smaller connecting dead end mains will relieve the condition of stagnant water throughout the city and will improve the condition of water to all consumers.

Your Water Board feels that these are badly needed improvements and are so laid out that they will work in with and in fact be necessary to, any further developments of the water system.

The interest on the proposed bond issue, together with the retirement of the bonds, will be paid from the revenues of the Water Department and will not therefor in any way affect the taxes of the city; and

Whereas, these additions to the distribution system of the City Water Supply Plant are hereby declared to be a necessary public improvement and their period of usefulness is hereby determined to be a period of thirty (30) years or more:

Now, therefore, be it resolved that at a special election to be held in the City of Ann Arbor, Michigan, on Monday, the seventh day of April, A. D. 1930, the proposition of raising by loan the sum of \$325,000.00 be submitted to the qualified voters of this city;

Resolved, further, that the said proposition to raise said money be submitted as two propositions, the first proposition to provide for the raising by loan of the sum of \$120,000.00 for the construction of

a new reservoir with connection to water mains, and the second proposition to provide for the raising of \$205,000.00 for the construction of cast iron trunk line water mains and connecting dead end mains and installing additional hydrants;

Resolved, further, that the said election be held in the several wards and precincts in the City of Ann Arbor, as follows:

First Ward, voting room, in basement of City Hall; Second Ward, ward building on South Ashley Street; Third Ward, ward building on Miller Avenue; Fourth Ward, voting room in basement of Armory on North Fifth Avenue; Fifth Ward, ward building on Pontiac Street; Sixth Ward, voting room, old Engine House on East University Avenue; Seventh Ward, first precinct, City building on Mary Street; Seventh Ward, second precinct, polling place, log cabin on Burns Park, Wells Street.

Resolved, further, that the polls of said election be opened at the designated places from seven o'clock a. m. to eight o'clock p. m., Eastern Standard Time.

Resolved, further, that the City Clerk be, and he is hereby authorized to give notice of the said election according to the law of the State of Michigan and the charter of the City of Ann Arbor and that he cause to be printed white paper ballots of equal width and length for the use of the electors at the said special election which shall be in the following form:

For the raising by loan of the sum of \$120,000.00 and the issuing of bonds of the City of Ann Arbor therefor, payable not more than thirty (30) years from date of issue and bearing interest not exceeding six per cent per annum, said money when raised to be used by the Board of Water Commissioners of the City of Ann Arbor, Michigan, in the construction of a reinforced concrete covered reservoir with surface elevation at 10 feet higher elevation than present reservoir, with connection to water

mains, contingencies and engineering.

YES ()

NO ()

For the raising by loan of the sum of \$205,000.00 and issuing the bonds of the City of Ann Arbor therefor, payable not more than thirty (30) years from date of issue and bearing interest not exceeding six per cent per annum, said money when raised to be used for contemplated improvements and additions by the Board of Water Commissioners of the City of Ann Arbor, Michigan, including trunk line water mains, connecting dead end mains, additional hydrants, contingencies and engineering.

Yes ()

NO ()

Resolved, further, that the City Clerk be and he is hereby directed to issue and publish the notice of registration of electors for said special election in compliance with the Charter of the City of Ann Arbor, and that said clerk make all necessary arrangements for the registration of electors for the said special election.

Resolved, further, that the canvass and determination of the said vote be made according to the State Law and the Charter of the City of Ann Arbor.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth,

Severance, Freeman, Fisher, Lutz, Pres. Myers, 12. Nays, none.

Poor and Cemetery Committee

Moved by Ald. Kurth that Geo. L. McCollum be appointed as Poor Commissioner for the year beginning the first Monday in March, 1930, at a salary of fifty dollars per month.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Severance, Freeman, Fisher, Lutz, Pres. Myers, 12. Nays, none.

Ald. Kurth reported on the duties required of Poor Commissioner in conveying of indigent people to the County Farm and other work in which he uses his personal car.

Moved by Ald. Kurth that City furnish Poor Commissioner with gasoline not to exceed 5 gallons per week to be used in private car for duties in connection with City work.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Severance, Freeman, Fisher, Lutz, Pres. Myers, 12. Nays, none.

City Officers' Reports

Report of Chief of Police and Health Officer for month of January were received and ordered on file.

Annual report of the Board of Public Works was received.

Annual Report

of the

CITY ENGINEER

1929

ANNUAL REPORT OF THE BOARD OF PUBLIC WORKS FOR THE YEAR OF 1929

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

Gentlemen:

I respectfully submit the following report of work done by the Board of Public Works, under the direction of your City Engineer, during the year 1929.

Respectfully submitted,

GEO. H. SANDENBURGH,
City Engineer.

PAVEMENTS

During the season of 1929 seven (7) streets were paved. Two of these streets—East Ann Street, from North State Street to Glen Avenue, and West Madison Street—were paved with seven-inch reinforced concrete; three streets, Wells Street, Lincoln Avenue, East University Avenue from Packard Street to Hill Street and part of North University Avenue were paved with one and one-half inches of sheet asphalt on five and one-

half inches of black base or asphaltic concrete; Beakes Street and one block of the North University Avenue pavement were paved with inch and a half, inch and a half sheet asphalt on a seven-inch Portland cement concrete base.

Inspection on the concrete pavement and on the concrete base was handled by our own forces and the asphalt pavements were inspected by the Chicago Paving Laboratory, Inc., asphalt specialists. The Chicago Paving Laboratory, Inc., were paid on a yardage basis, four cents per square yard for 1½"-1½" sheet asphalt and eight cents per square yard on the black base pavements.

The Michigan State Highway Department paid the cost of paving the central twenty feet of the Beakes Street pavement.

The construction cost of all pavements built during the year 1929 amounts to \$156,388.53; of this amount \$10,606.99 was paid by the State Highway Department as its share of the cost of the Beakes Street pavement.

The following data on our paving work may be interesting:

STATEMENT OF PAVING COSTS

Dist.	Contract Cost	Construction Cost	Engineering	Inspection	Office Overhead
105	\$ 31,066.95	\$ 31,872.11	\$ 264.85	\$ 963.76	\$ 620.14
106	13,616.52	13,762.07	166.69	124.48	272.33
107	23,244.51	23,692.49	101.70	139.82	464.89
108	18,460.15	18,641.65	93.56	512.58	369.20
109	25,545.07	25,842.28	196.97	406.79	510.90
110	18,908.24	18,925.89	54.29	595.72	378.16
111	23,354.04	23,652.04	212.59	595.90	465.08
	<u>\$154,195.48</u>	<u>\$156,388.53</u>	<u>\$1,090.65</u>	<u>\$3,339.05</u>	<u>\$3,080.70</u>

Contract Cost	\$154,195.48
Construction Cost	156,388.53
Engineering	1,090.65
Inspection	3,339.05
Office Overhead	3,080.70
Engineering is	0.70% of Construction Cost
Inspection is	2.14% of Construction Cost
Office Overhead is	1.97% of Construction Cost
Total Engineering	4.81% of Construction Cost
Square yards built	49,716

Dist. No.	Total Cost	Property Share	City Share	State of Mich.
105	\$ 33,720.86	\$ 17,098.14	\$ 16,622.72	
106	14,325.57	11,138.23	3,187.34	
107	24,398.90	14,594.60	9,804.30	
108	19,616.99	11,334.99	8,282.00	
109	26,956.94	7,569.74	8,780.21	10,606.99
110	19,954.06	13,723.18	6,230.88	
111	24,925.61	16,309.73	8,615.88	
	<u>\$163,898.93</u>	<u>\$ 91,768.61</u>	<u>\$ 61,523.33</u>	

An itemized statement of the cost of each pavement follows:

District No. 105**Wells Street****Packard Street to Ferdon Road**

Contract Cost	\$31,066.95
Engineering	264.85
Inspection	963.76
Sewer Work	342.16
Monument Boxes	97.50
Sewer Castings	365.50
Office Overhead	620.14

Total Cost\$33,720.86

City Share	\$16,622.72
Property Share	17,098.14

District No. 106**East Ann Street****State Street to Glen Avenue**

Contract Cost	\$13,616.52
Engineering	166.69
Inspection	124.48
Sewer Work	126.05
Monument Boxes	19.50
Office Overhead	272.33

Total Cost\$14,325.57

City Share	\$ 3,187.34
Property Share	11,138.23

District No. 107**West Madison Street****South Main St. to Seventh St.**

Contract Cost	\$23,244.51
Engineering	101.70
Inspection	139.82
Sewer Work	300.48
Monument Boxes	58.50
Repairing Curb and Gutter	89.00
Office Overhead	464.89

Total\$24,398.90

City Share	\$ 9,804.30
Property Share	14,594.60

District No. 108**East University Avenue****Packard Street to Hill Street**

Contract Cost	\$18,460.15
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Engineering	93.56
Inspection	512.58
Manhole Castings	129.50
Monument Boxes	52.00
Office Overhead	369.20

Total Cost	\$19,616.99
City Share	\$ 8,282.00
Property Share	11,334.99

District No. 109**Beakes Street and Kingsley Street**

Contract Cost	\$25,545.07
Engineering	196.97
Inspection	406.79
Sewer Work	184.02
Monument Castings	19.50
Moving Hydrant	93.69
Office Overhead	510.90

Total Cost\$26,956.94

State Share	\$10,606.99
City Share	8,780.21
Property Share	7,569.74

District No. 110**Lincoln Avenue****Wells Street to Hill Street**

Contract Cost	\$18,908.24
Engineering	54.29
Inspection	595.72
Sewer Work	17.65
Office Overhead	378.16

Total Cost\$19,954.06

City Share	\$ 6,230.88
Property Share	13,723.18

District No. 111**North University Avenue****State Street to Forest Avenue**

Contract Cost	\$23,354.04
Engineering	212.59
Inspection	595.90
Sewer Work	12.25
Manhole and Inlet Cast- ings furnished by City	220.75
Work by Street Depart- ment	65.00
Office Overhead	465.08

Total Cost\$24,925.61

City Share	\$ 8,615.88
Property Share	16,309.73

SUMMARY OF PAVEMENTS

Street and Limits	District No.	Width	Length	Type of Surface	Base
Wells Street, Packard to Ferdon ..	105	34	2685	1½"-1½" Sh. Asph.	4" Black Base
East Ann Street, State to Glen	106	34	1308	7" Reinf. Concrete	
West Madison St., Main to Seventh	107	34	2481	7" Reinf. Concrete	
E. University Ave., Hill to Packard	108	34	1698	1½"-1½" Sh. Asph.	4" Black Base
Beakes & Kingsley, Summit to Main	109	36	1665	1½"-1½" Sh. Asph.	7" Concrete
Lincoln Ave., Hill to Wells	110	34	1908	1½"-1½" Sh. Asph.	4" Black Base
		24	1275	1½"-1½" Sh. Asph.	4" Black Base
N. University Ave., State to Forest	111	36	595	1½"-1½" Sh. Asph.	6" Concrete
Totals			13615		

CONCRETE CURB and GUTTER

Construction of concrete curb and gutter has at last caught up with the demand. City finances are now such that all curb and gutter petitioned for can be built.

This year the design of the curb and gutter was changed from an eighteen (18) inch gutter to a twenty-four (24) inch gutter, making the combined width of the curb and gutter thirty (30) inches instead of twenty-four (24) inches, as formerly built. Two one-half (½) inch steel bars are now used as reinforcing, one bar being placed three inches from the back of the curb and one in the gutter six (6) inches in front of the curb

face. One half (½) inch expansion joints are placed every fifty (50) feet. I do not see how the present design can be improved upon.

The workmanship on curb and gutter built this year was of the same high quality as we have been obtaining for the past three years. I believe we are getting better curb and gutter than is built in any other Michigan city.

The materials used are the best to be obtained. The sand and pebbles are washed. The cement is all tested. All precautions are taken to see that only good materials go into the finished product. I am very glad to say that I am well pleased with the work turned

BUILT IN 1929

Sq. Yds. of Pavement	Lin. Ft. Curb and Gutter	Cost of Excavation	Total Cost	City's Share	Property's Share	Total Cost per Sq. Yd.	Contr. Cost Pav't Only per Sq. Yd.
10001	3177	\$ 2473.85	\$ 33720.86	\$16622.72	\$17098.14	\$3.37	\$2.40
4630	2490	455.40	14325.57	3187.34	11138.23	3.09	2.19
9390		2136.90	24398.90	9804.30	14594.60	2.59	2.19
6328	84	2297.10	19616.99	8282.00	11334.99	3.10	2.40
			State 10606.99 City				
6642	3161	1306.25	16349.95	8780.21	7569.75	4.06	2.90
6681		2842.04	19954.06	6230.88	13723.18	2.99	2.40
3480	2391					3.45	2.40
2564		1397.45	24925.61	8615.88	16309.73	3.03	2.80
49716	11303	\$12908.99	\$163898.93	\$61523.33	\$91768.61		

out by the curb and gutter contractors this year.

An itemized statement of the cost of curb and gutter built in 1929 follows:

District No. 126

Sunset Road, Wildt Street to W. Line Section 20

Contract Cost	\$7,535.33
Engineering	482.06
Inspection	252.14
Sewer Work	161.89
Office Overhead	150.71
Total Cost	\$8,582.13
City Share	\$2,531.24
Property Share	\$6,050.89

District No. 157

White Street

Contract Cost	\$1,088.60
Engineering	34.71
Inspection	27.44
Office Overhead	21.77
Total Cost	\$1,172.52
City Share	\$ 297.84
Property Share	\$ 874.68

District No. 158

Daniel Street

Contract Cost	\$ 917.68
Engineering	71.32
Inspection	53.36

Office Overhead	18.35
Total Cost	<u>\$1,060.71</u>
City Share	\$ 299.26
Property Share	\$ 761.45

District No. 159**Vinewood Boulevard, Geddes Ave.
s'ly to Beal Property**

Contract Cost	\$2,598.76
Engineering	77.06
Inspection	48.78
Sewer Work	85.50
Office Overhead	51.98
Total Cost	<u>\$2,862.08</u>
City Share	\$ 775.88
Property Share	\$2,086.20

District No. 160**Day Street, Wayne Street to Berk-
shire Road**

Contract Cost	\$1,191.93
Engineering	42.57
Inspection	25.61
Office Overhead	23.84
Total Cost	<u>\$1,283.95</u>
City Share	\$ 298.46
Property Share	\$ 985.49

District No. 161**Pine Ridge**

Contract Cost	\$1,048.58
Engineering	46.56
Inspection	12.21
Office Overhead	20.97
Total Cost	<u>\$1,128.32</u>
City Share	\$ 344.05
Property Share	\$ 784.27

District No. 163**Melrose Avenue, Devonshire Road
to Toumy Road**

Contract Cost	\$2,294.86
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Engineering	101.97
Inspection	37.91
Sewer Work	28.50
Office Overhead	45.90

Total Cost	<u>\$2,509.14</u>
City Share	\$ 574.33
Property Share	\$1,934.81

District No. 164**Brooklyn Avenue, Packard Street
to Golden Avenue**

Contract Cost	\$2,101.12
Engineering	29.99
Inspection	38.95
Office Overhead	42.02

Total Cost	<u>\$2,212.08</u>
City Share	\$ 510.78
Property Share	\$1,701.30

District No. 165**Grandview Drive, Jackson Avenue
to Dexter Avenue**

Contract Cost	\$1,140.26
Engineering	47.70
Inspection	17.32
Office Overhead	22.80

Total Cost	<u>\$1,228.08</u>
City Share	\$ 256.75
Property Share	971.33

District No. 166**Benjamin Street, Division Street to
Mary Street**

Contract Cost	\$1,544.69
Engineering	37.96
Inspection	29.41
Sewer Work	57.00
Office Overhead	30.89

Total Cost	<u>\$1,699.95</u>
City Share	\$ 501.04
Property Share	\$1,198.91

District No. 167**Austin Avenue, Washtenaw Avenue
to Norway Road**

Contract Cost	\$ 889.58
Engineering	22.46
Inspection	39.68
Office Overhead	17.79

Total Cost	\$ 969.51
City Share	\$ 251.70
Property Share	\$ 717.81

District No. 168**Hoover Avenue, State Street to
Ann Arbor R. R.**

Contract Cost	\$3,314.65
Engineering	105.54
Inspection	59.87
Sewer Work	42.44
Office Overhead	66.29

Total Cost	\$3,588.79
City Share	\$1,105.99
Property Share	\$2,482.80

District No. 169**Sybil Street, Hoover Avenue to
Hill Street**

Contract Cost	\$1,660.55
Engineering	37.19
Inspection	32.22
Office Overhead	33.21

Total Cost	\$1,763.17
City Share	\$ 459.79
Property Share	\$1,303.38

District No. 170**Westwood Avenue, Dexter Avenue
North to End of Street**

Contract Cost	\$2,104.68
Engineering	77.97
Inspection	36.80

Sewer Work	19.17
Removing Tree	10.00
Office Overhead	42.09

Total Cost	\$2,290.71
City Share	\$ 605.37
Property Share	\$1,685.34

District No. 171**Haven Avenue, Monroe Street to
Hill Street**

Contract Cost	\$1,051.94
Engineering	13.26
Inspection	31.73
Office Overhead	21.04

Total Cost	\$1,117.97
City Share	\$ 223.59
Property Share	\$ 894.38

District No. 172**Gardner Avenue, Packard Street to
Westminster Place**

Contract Cost	\$1,549.60
Engineering	50.09
Inspection	26.67
Office Overhead	30.99

Total Cost	\$1,657.35
City Share	\$ 438.43
Property Share	\$1,218.92

District No. 173**Montclair Place, Gardner Avenue
to South End**

Contract Cost	\$1,223.48
Engineering	19.03
Inspection	38.94
Office Overhead	24.47

Total Cost	\$1,305.92
City Share	\$ 261.18
Property Share	\$1,044.74

District No. 174	Inspection	20.00
	Inlet Castings	14.25
Division Street, Hill Street to Hoover Avenue	Office Overhead	33.46
	<hr/>	
	Total Cost	\$1,764.24
Contract Cost	City Share	\$ 508.45
Engineering	Property Share	\$1,255.79

CURB AND GUTTER SUMMARY

Dist. No.	Length	Total Cost	Property Share	City Share
126	8,646	\$ 8,582.13	\$ 6,050.89	\$ 2,531.24
157	1,090	1,172.52	874.68	297.84
158	868	1,060.71	761.45	299.26
159	2,387	2,862.08	2,084.92	777.16
160	1,219	1,283.95	985.49	298.46
161	909	1,128.32	784.27	344.05
162				
163	2,014	2,509.14	1,934.81	574.33
164	1,704	2,212.08	1,701.30	510.78
165	936	1,228.08	971.33	256.75
166	1,272	1,699.95	1,198.91	501.04
167	694	969.51	717.81	251.70
168	2,606	3,588.79	2,482.80	1,105.99
169	1,347	1,763.17	1,303.38	459.79
170	1,992	2,290.71	1,685.34	605.37
171	832	1,117.97	894.38	223.59
172	1,405	1,657.35	1,218.92	438.43
173	1,127	1,305.92	1,044.74	261.18
174	1,437	1,764.24	1,255.79	508.45

32,485	\$ 38,196.62	\$ 27,951.21	\$ 10,245.41
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Contract Cost \$ 34,929.44

Sewer Work 418.75

Construction Cost \$ 35,348.19

Engineering 1,320.82

Inspection 829.04

Office Overhead 698.57

\$ 38,196.62

Engineering Cost is 3.75% of Construction Cost

Inspection Cost is 2.35% of Construction Cost

Office Overhead
Cost is 1.98% of Construction Cost

Total Engineering 8.08% of Construction Cost

Lineal Feet Built 32,485

SUMMARY OF CURB AND GUTTER BUILT IN 1929

Street and Limits	District No.	Type of Construction	Length	Total Cost	City to Pay	Property to Pay	Amount of Contract	Cost per Foot	Contractor
Sunset Road, Reservoir to Wildt St.	126	30" Spe. 30" Reg.	5033 3613	\$ 8582.13	\$ 2531.24	\$ 6050.89	\$ 7535.33	\$.99	L. W. Dailey
White, St., Granger to Rose	157	30" Reg.	1090	1172.52	297.84	874.68	1088.60	1.08	L. W. Dailey
Daniel Street, Summit to Charles	158	30" Reg.	868	1060.71	299.26	761.45	917.68	1.22	Walterhouse
Vinewood Boulevard, Geddes to City Limits	159	30" Reg.	2387	2862.08	775.88	2086.20	2598.76	1.20	L. W. Dailey
Day Street, Berkshire to Wayne	160	30" Reg.	1219	1283.95	298.46	985.49	1191.93	1.05	L. W. Dailey
Pine Ridge, Dexter to N. End	161	30" Reg.	909	1128.32	344.05	784.27	1048.58	1.24	L. W. Dailey
Melrose Avenue, Devonshire to Tuomy	163	30" Reg.	2014	2509.14	574.33	1934.81	2294.86	1.25	L. W. Dailey
Brooklyn Avenue, Packard to Golden	164	30" Reg.	1704	2212.08	510.78	1701.30	2101.12	1.30	L. W. Dailey

Grandview Drive, Dexter to to Jackson	165	30" Reg.	936	1228.08	256.75	971.33	1140.26	1.31	Walterhouse
Benjamin Street, Mary to Division	166	30" Reg.	1272	1699.95	501.04	1198.91	1544.69	1.34	L. W. Dailey
Austin Avenue, Washtenaw to Norway	167	30" Reg.	694	969.51	251.70	717.81	889.58	1.40	Walterhouse
Hoover Avenue, State to A. A. R. R.	168	30" Reg.	2606	3588.79	1105.99	2482.80	3314.65	1.38	L. W. Dailey
Sybil Street, Hoover to Hill	169	30" Reg.	1347	1763.17	459.79	1303.38	1660.55	1.31	L. W. Dailey
Westwood Avenue, Dexter to Arbor View	170	30" Reg.	1992	2290.71	605.37	1685.34	2104.68	1.15	L. W. Dailey
Haven Avenue, Monroe to Hill	171	30" Reg.	832	1117.97	223.59	894.38	1051.94	1.34	Walterhouse
Gardner Avenue, Packard to Westminster	172	30" Reg.	1405	1657.35	438.43	1218.92	1549.60	1.18	L. W. Dailey
Montclair Place, Gardner to South End	173	30" Reg.	1127	1305.92	261.18	1044.74	1223.48	1.16	Walterhouse
Division Street, Hill to Hoover	174	30" Reg.	1437	1764.24	508.45	1255.79	1673.15	1.23	L. W. Dailey
Totals			32485	\$38196.62	\$10244.13	\$27952.49	\$34929.44		

STORM SEWERS

**Madison Street, Allen's Creek to
First Street and Fourth Street to
Sixth Street, and Ashley Street,
Madison Street to Mosley Street**

Contract Cost	\$9,025.97
Engineering	108.29
Inspection	248.45
Raising Water Services ..	16.27
Office Overhead	180.52
<hr/>	
Total Cost	\$9,579.50

**Davis, Wilder, Hoover and Fifth
Street**

Contract Cost	\$5,496.61
Engineering	62.27
Inspection	117.20
Office Overhead	109.93
<hr/>	
Total Cost	\$5,786.01

**Brooklyn Avenue, Westminster Pl.
and Gardner Avenue**

Contract Cost	\$3,404.28
Engineering	57.71
Inspection	77.92
Repair Pavement	136.00
Office Overhead	68.08
<hr/>	
Total Cost	\$3,743.99

**Washington Heights, Valley to
Observatory Street**

Contract Cost	\$2,313.32
Engineering	27.63
Inspection	90.63
Office Overhead	46.26
<hr/>	
Total Cost	\$2,477.84

**Fourth Avenue, Madison Street to
Packard Street**

Contract Cost	\$1,987.52
Engineering	17.63
Inspection	95.70
Office Overhead	39.75
<hr/>	
Total Cost	\$2,140.60

Abbott Avenue and Orchard Street

Contract Cost	\$1,326.25
Engineering	1.10
Inspection	84.69
Office Overhead	26.53
<hr/>	
Total Cost	\$1,438.57

Pine Ridge, Drain to Maryfield Dr.

Contract Cost	\$1,094.63
Engineering	13.52
Inspection	6.25
Office Overhead	21.89
<hr/>	
Total Cost	\$1,136.29

Vinewood Blvd., Wayne St. E'ly

Contract Cost	\$ 462.00
Engineering	57.70
Inspection	19.00
Office Overhead	9.24
<hr/>	
Total Cost	\$ 547.94

**Miner Street, Felch Street S'ly
to Angle**

Contract Cost	\$ 270.00
Engineering	3.91
Office Overhead	5.40
<hr/>	
Total Cost	\$ 279.31

STORM SEWERS SUMMARY

	Total Cost	Construction Cost	Engineer- ing	Inspec- tion	Office Overhead
W. Madison Street	\$ 9,579.50	\$ 9,042.24	\$108.29	\$248.45	\$180.52
Davis, Wilder, Hoover	5,786.01	5,496.61	62.27	117.20	109.93
Brooklyn, Westminster	3,743.99	3,540.28	57.71	77.92	68.08
Washington Heights	2,477.84	2,313.32	27.63	90.63	46.26
S. Fourth Avenue	2,140.60	1,987.52	17.63	95.70	39.75
Abbott and Orchard St.	1,438.57	1,326.25	1,10	84.69	26.53
Pine Ridge	1,136.29	1,094.63	13.52	6.25	21.89
Vinewood Boulevard	547.94	462.00	57.70	19.00	9.24
Miner Street	279.31	270.00	3.91		5.40
	<u>27,130.05</u>	<u>\$25,532.85</u>	<u>\$349.76</u>	<u>\$739.84</u>	<u>\$507.60</u>

Construction Cost \$25,532.85

Engineering 349.76

Inspection 739.84

Office Overhead 507.60

Engineering Cost is 1.37% of the Construction Cost

Inspection Cost is 2.90% of the Construction Cost

Office Overhead Cost is 1.99% of the Construction Cost

Total Engineering 6.26% of the Construction Cost

Length of main built 8,808 feet

SUMMARY OF STORM SEWERS

Street and Limits	Size of Main	Length of Main	Length of Inlet Conn.	Inlets (Regular)	Manholes
Washington Heights, Observatory to E. End.	12"	1040	166	11	7
	18"	252			
Fourth Avenue, Madison to Packard	12"	427	162	7	4
Miner Street, Felch S'ly	12"	117	33	2	1
	18"	639			
Davis, Wilder, Hoover and Fifth	12"	1774	607	24	13
Vinewood Boulevard, Wayne E'ly	12"	301	21	2	1
Abbott and Orchard Streets, across Private Property	24"	290	29	2	2
	18"	314			
	15"	260			
Brooklyn, Westminster and Gardner	12"	1160	311	16	7
	36"	664			
Madison Street, Main to First, Fourth to Sixth	18"	354			
	12"	879	399	15	10
Pine Ridge, Maryfield to Drain	12"	337	123	8	6
Totals		8808	1851	87	51

BUILT IN 1929

Total Cost	Amount of Contract	5% Retained on Contract for 1 Year	When Due	Contractor
\$ 2,477.84	\$ 2,313.32	\$ 115.66	1930-11-18	Cent. Mich. Con.
2,140.60	1,987.52	97.75	1930-12-16	C. M. Knowles
279.31	270.00	13.50	1930-11-18	Cent. Mich. Con.
5,786.01	5,496.61	274.42	1930-11-18	Cent. Mich. Con.
547.94	462.00	23.10	1930-11-18	Cent. Mich. Con.
1,438.57	1,326.25	65.37	1931-1-6	C. M. Knowles
3,743.99	3,404.28	163.70	1930-11-18	Cent. Mich. Con.
9,579.50	9,025.97	445.67	1930-11-18	R. T. Liddicoat
1,136.29	1,094.63	54.27	1930-11-18	Cent. Mich. Con.
<hr/>	<hr/>	<hr/>		
\$27,130.05	\$25,380.58	\$1,259.44		

SANITARY SEWERS**District No. 179****Cedar Bend Drive**

Contract Cost	\$ 301.60
Engineering	16.27
Inspection	14.29
Office Overhead	6.03

Total Cost	\$ 338.19
City Share	\$ 188.57
Property Share	\$ 149.62

District No. 180**Allmand Heights Addition**

Contract Cost	\$5,829.84
Engineering	55.68
Inspection	229.95
Flushtank Connection	100.00
Office Overhead	116.60

Total Cost	\$6,332.07
City Share	\$1,028.70
Property Share	\$5,303.37

District No. 182**Lafayette Boulevard, Highland
Road to Lenawee Drive**

Contract Cost	\$1,426.38
Engineering	32.96
Inspection	117.48
Flushtank Connection	25.00

Office Overhead	28.53
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Total Cost	\$1,630.35
City Share	\$ 159.03
Property Share	\$1,471.32

District No. 183**Arbor View Boulevard, Brierwood
and Linwood Avenues**

Contract Cost	\$2,513.25
Engineering	18.84
Inspection	235.03
Flushtank Connections	50.00
Office Overhead	50.26

Total Cost	\$2,867.38
City Share	\$1,062.12
Property Share	\$1,805.26

District No. 184**Allmendinger Heights and Outlet
Sanitary Sewers**

Contract Cost	\$34,440.02
Engineering	551.57
Inspection	456.60
Flushtank Connections	300.00
Office Overhead	688.80

Total Cost	\$36,436.99
City Share	\$19,965.57
Property Share	\$16,471.42

SANITARY SEWERS SUMMARY

Dist. No	Length	City Share	Property Share	Total Cost
179	126	\$ 188.57	\$ 149.62	\$ 338.19
180	3,068	1,028.70	5,303.37	6,332.07
182	474	159.03	1,471.32	1,630.35
183	1,103	1,062.12	1,805.26	2,867.38
184	10,666	19,965.57	16,471.42	36,436.99
	<u>15,437</u>	<u>\$22,403.99</u>	<u>\$25,200.99</u>	<u>\$47,604.98</u>

Contract Cost \$44,511.09

Construction Cost 44,986.09

Engineering 675.32

Inspection 1,053.35

Office Overhead 890.22

Engineering Cost is 1.50% of the Construction Cost

Inspection Cost is 2.35% of the Construction Cost

Office Overhead Cost is 1.98% of the Construction Cost

Total Engineering 5.83% of the Construction Cost

Length of Main built 15,437 feet

SUMMARY OF SANITARY

Street and Limits	District No.	Size of Main	Length of Main	Manholes	Flushtanks	Total Cost
Cedar Bend Drive, Broadway S'ly	179	8"	126	2		\$ 338.19
Allmand Heights, Abbott, Orchard, Fair, Charlton, Glendale	180	8"	3,068	12	4	6,332.07
Lafayette Boulevard, Highland to Lenawee	182	8"	474	4	1	1,630.35
Arbor View Blvd., Brierwood, Lin- wood	183	12" 8"	270 833		2	2,867.38
		18"	848			
		15"	3,237			
Allmendinger Heights and S. City Limits Sub-main	184	12" 8"	684 5,897	43	12	36,436.99
Totals			15,437	66	19	\$47,604.98

GENERAL SUMMARY

Pavements Construc- tion Cost	\$156,388.53
Curb and Gutter Con- struction Cost	35,348.19
Storm Sewers Construc- tion Cost	25,532.85
Sanitary Sewers Con- struction Cost	44,986.09
	<hr/>
	\$262,255.66
Total Engineering Cost—	\$14,574.92
or 5.55%.	

SEWERS BUILT IN 1929

City to Pay	Property to Pay	Amount of Contract	5% Retained on Contract for 1 Year	When Due	Contractor
\$ 188.57	\$ 149.62	\$ 301.60	\$ 15.08	1930-12-16	C. M. Knowles
1,028.70	5,303.37	5,829.84	290.59	1930-12-16	C. M. Knowles
159.03	1,471.32	1,426.38	71.32	1930-12-16	C. M. Knowles
1,062.12	1,805.26	2,513.25	125.66	1931-1-6	C. M. Knowles
19,965.57	16,471.42	34,440.02	1,722.00	1930-11-4	Ianni Con. Co.
<u>\$22,403.99</u>	<u>\$25,200.99</u>	<u>\$44,511.09</u>	<u>\$2,224.65</u>		

BROADWAY GRADE SEPARATION BRIDGE

This project has been completed with the exception of the railing and sodding on the north approach and the sidewalk on the west side of the north approach. The north and south approaches were paved this season and the sidewalk on the east side of the north approach was built.

The work of building the railing, sidewalk and sodding of the north approach will be started as soon as the weather permits in the spring of 1930.

An itemized statement of the cost of the project to date and the

estimated cost to complete is given below.

Michigan Central expenditures	\$224,575.74
City of Ann Arbor Expenditures	40,996.42
Estimate to Complete ..	9,203.00
<u>Total Cost of Joint Project</u>	<u>\$274,775.16</u>
Division Street Extension (City project only)	\$ 45,798.49
<u>Total Cost of Grade Separation Project</u>	<u>\$320,573.65</u>

ALL IMPROVEMENTS IN 1929

Location	Improvement	Contractor	Total Cost	Engineer's Estimate	Eng., Insp. & Office O'head	Cost of Construction	Amount Retained
Sunset Road	Curb & Gutter	L. W. Dailey	\$ 8,582.13	\$ 8,077.41	\$ 884.91	\$ 7,697.22	
White Street	Curb & Gutter	L. W. Dailey	1,172.52	1,350.80	83.92	1,088.60	
Daniel Street	Curb & Gutter	Geo. Walterhouse	1,060.71	798.60	143.03	917.68	
Vinewood Boulevard	Curb & Gutter	L. W. Dailey	2,862.08	2,697.20	177.82	2,684.26	
Day Street	Curb & Gutter	L. W. Dailey	1,283.95	1,417.90	92.02	1,191.93	
Pine Ridge	Curb & Gutter	L. W. Dailey	1,128.32	1,670.90	79.74	1,048.58	
Melrose Avenue	Curb & Gutter	L. W. Dailey	2,509.14	2,211.00	185.78	2,323.36	
Brooklyn Avenue	Curb & Gutter	L. W. Dailey	2,212.08	2,038.30	110.96	2,101.12	
Grandview Drive	Curb & Gutter	Geo. Walterhouse	1,228.08	1,122.00	87.82	1,140.26	
Benjamin Avenue	Curb & Gutter	L. W. Dailey	1,699.95	1,535.60	98.26	1,601.69	
Austin Avenue	Curb & Gutter	Geo. Walterhouse	969.51	809.60	79.93	889.58	
Hoover Avenue	Curb & Gutter	L. W. Dailey	3,588.79	3,004.10	231.70	3,357.09	
Sybil Street	Curb & Gutter	L. W. Dailey	1,763.17	1,757.14	102.62	1,660.55	
Westwood Avenue	Curb & Gutter	L. W. Dailey	2,290.71	2,470.60	156.86	2,133.85	
Haven Avenue	Curb & Gutter	Geo. Walterhouse	1,117.97	1,264.45	66.03	1,051.94	
Gardner Avenue	Curb & Gutter	L. W. Dailey	1,657.35	1,837.00	107.75	1,549.60	
Montclair Place	Curb & Gutter	Geo. Walterhouse	1,305.92	1,393.70	82.44	1,223.48	
Division Street	Curb & Gutter	L. W. Dailey	1,764.24	1,843.60	76.84	1,687.40	
Wells Street	Pavement	Ann Arbor Con. Co.	33,720.86	33,067.10	1,848.75	31,872.11	
East Ann Street	Pavement	Lewis & Frisinger Co.	14,325.57	14,515.71	563.50	13,762.07	
West Madison St.	Pavement	Lewis & Frisinger Co.	24,398.90	24,956.36	706.41	23,692.49	
East University Ave.	Pavement	Ann Arbor Con. Co.	19,616.99	19,649.96	975.34	18,641.65	

Beakes and Kingsley	Pavement	Ann Arbor Con. Co.	26,956.94	25,682.74	1,114.66	25,842.28	
Lincoln Avenue	Pavement	Ann Arbor Con. Co.	19,954.06	19,174.98	1,028.17	18,925.89	
North University Ave.	Pavement	Ann Arbor Con. Co.	24,925.61	21,574.90	1,273.57	23,652.04	
Washington Heights	Storm Sewer	Cent. Mich. Con. Co.	2,477.84	2,803.62	164.52	2,313.32	115.66
Fourth Avenue	Storm Sewer	C. M. Knowles	2,140.60	2,195.32	153.08	1,987.52	97.75
Miner Street	Storm Sewer	Cent. Mich. Con. Co.	279.31	337.42	9.31	270.00	13.50
Davis, Wilder, Hoover	Storm Sewer	Cent. Mich. Con. Co.	5,786.01	7,435.34	289.40	5,496.61	274.42
Vinewood Boulevard	Storm Sewer	Cent. Mich. Con. Co.	547.94	609.40	85.94	462.00	23.10
Abbott to Orchard	Storm Sewer	C. M. Knowles	1,438.57	1,582.90	112.32	1,326.25	65.37
Brooklyn, Gardner	Storm Sewer	Cent. Mich. Con. Co.	3,743.99	4,840.77	203.71	3,540.28	169.70
Madison Street	Storm Sewer	R. T. Liddicoat	9,579.50	8,873.70	537.26	9,042.24	445.67
Pine Ridge	Storm Sewer	Cent. Mich. Con. Co.	1,136.29	1,409.37	41.66	1,094.63	54.27
Cedar Bend Drive	San'y Sewer	C. M. Knowles	338.19	393.25	36.59	301.60	15.08
Allmand Heights	San'y Sewer	C. M. Knowles	6,332.07	7,009.75	402.23	5,929.84	290.59
Lafayette Blvd.	San'y Sewer	C. M. Knowles	1,630.35	1,980.66	178.97	1,451.38	71.32
Arbor View Blvd.	San'y Sewer	C. M. Knowles	2,867.38	3,655.85	304.13	2,563.25	125.66
Allmendinger Heights	San'y Sewer	Ianni Const. Co.	36,436.99	37,392.63	1,696.97	34,740.02	1,722.00
	Sidewalks	Geo. Walterhouse	3,431.66		721.11	2,710.55	
	Sidewalks	A. F. Thompson	2,872.28		603.51	2,268.77	
	Sidewalks	Henry Schneider	1,945.06		408.61	1,536.45	
	Sidewalks	Thomas Hession	2,351.59		494.04	1,857.55	
Division St. Extension	Pavement	Ann Arbor Con. Co.	45,798.49			45,798.49	
*Municipal Garage	Garage	C. Clay Kingsley	22,027.27		156.17	21,871.10	
Totals			\$355,256.93	\$276,441.63	\$ 16,958.36	\$338,298.57	\$3,484.09

*Not completed—cost to date.

SUMMARY OF SEWERS, PAVEMENTS, CURB AND GUTTER AND BRIDGES

The total cost of Sewers, Pavements, Curb and Gutters and Bridges built up to and including 1929 is divided as follows:

Pavements	\$1,652,765.45
Curb and Gutters	364,707.47
Sanitary Sewers	620,592.47
Storm Sewers	529,209.79
Bridges	104,503.97
	<hr/>
	\$3,271,779.15

The total cost of Pavements, Curb and Gutters, Storm and Sanitary Sewers and Bridges is listed below according to the year of completion:

Prior to 1900.....	\$ 176,616.21
1900.....	28,372.81
1901.....	3,704.93
1902.....	36,850.85
1903.....	34,229.39
1904.....	5,024.40
1905.....	18,744.79
1906.....	12,986.96
1907.....	34,931.94
1908.....	10,489.40
1909.....	11,867.30
1910.....	33,400.93
1911.....	82,549.47
1912.....	20,022.31
1913.....	54,369.77
1914.....	51,218.16
1915.....	51,163.83
1916.....	57,588.48
1917.....	58,919.23
1918.....	66,369.90
1919.....	60,559.17
1920.....	152,562.43
1921.....	120,963.41

1922.....	184,948.15
1923.....	191,271.06
1924.....	394,062.13
1925.....	195,434.53
1926.....	224,370.71
1927.....	357,203.67
1928.....	264,152.25
1929.....	276,830.58

Total\$3,271,779.15

GENERAL INFORMATION

Number of miles of street in the city	71.78
Number of miles of pavement in the city	34.72
Percentage of miles of streets paved	48.3%
Number of miles of Sanitary Sewers	58.02
Number of miles of Storm Sewers	26.76
Number of miles of Curb and Gutter	69.42

POPULATION OF ANN ARBOR

1860.....	5,094
1870.....	7,363
1880.....	8,061
1890.....	9,431
1900.....	14,509
1910.....	14,817
1920.....	19,516
1926.....	25,000
1927.....	25,500
1928.....	26,800
1929.....	27,950
1930 Estimate of Population	29,035

FIVE PER CENTS RETAINED PAID IN 1929

Sanitary Sewers

District No. 175	\$656.58	United Construction Co.
District No. 176	101.17	United Construction Co.
District No. 177	143.46	United Construction Co.
	\$901.21	

Storm Sewers

Abbott Ave., Ravena Blvd. W'ly to End	\$ 292.64	United Construction Co.
Buena Vista, Murray-Washington Drain N'ly	46.81	United Construction Co.
Onondaga St., Geddes Ave. to Seneca Ave.	38.56	United Construction Co.
Montgomery Ave., Abbott Ave. to W. Washington St.	30.84	United Construction Co.
Highland Rd. and Lenawee Drive, Awixa to Concord Road	58.97	United Construction Co.
Sunset Rd., N. Main St. to Spring St.	154.63	R. T. Liddicoat
Awixa Road, Drain to Lenawee Dr.	80.86	R. T. Liddicoat
S. Seventh St., Madison St. to Pauline Blvd.	139.01	R. T. Liddicoat
Monroe St., Packard St. E'ly	28.40	R. T. Liddicoat
Koch Ave., First St. to Third St.	26.66	R. T. Liddicoat
Wilmot St., Washtenaw Ave. to Mack Rd.	36.52	R. T. Liddicoat
N. University Ave., Camden Ct. E'ly	24.82	R. T. Liddicoat
Rose Ave., Golden Ave. to White St.	90.52	R. T. Liddicoat
E. University Ave., Packard to Monroe Prospect St., E. University Ave. to Church St.	741.18	R. T. Liddicoat
	\$1,790.42	

BUILDING DEPARTMENT

The value of Building Permits issued in 1929 exceeds by far the value for any preceding year. The number of permits for dwellings dropped from 290 in 1928 to 260 in 1929; however, this was more than made up by the number of large buildings erected. Eight hundred and nineteen permits were issued this year and 749 in 1928. A tabulated list of the several types of buildings erected, along with the estimated cost of each building, is given below.

Class	No. Permits	Total Cost
Dwellings	260	\$4,375,500.00
Legal Research Building	1	1,500,000.00
Schools	2	725,000.00
Alterations	340	237,433.00

Bank Building	1	100,000.00
Garages	194	57,125.00
Public Garages	3	57,000.00
Store Buildings	4	45,300.00
Gasoline Stations	5	46,600.00
Miscellaneous Buildings	4	38,050.00
Office Buildings	3	25,175.00
Warehouse and Shop	1	25,000.00
Labor Hall	1	10,000.00
	819	\$7,242,183.00

The cost to the Engineering Department of handling the Housing Code has been \$2,599.25. The fees received for building permits from September 3, 1929, to January 1, 1930, amounted to \$503.84.

The number of inspections made by the Building Inspector is given in the following table:

Total number of recorded inspections	1,195	14 quarts anti-freeze	4.10
Record of room size, window size and ceiling height dwellings)	144	Maintenance and repair ..	167.13
Apartments Inspected	31	Insurance	16.20
Rooming Houses Inspected ..	13	Total operating cost	\$ 216.28
Schools Inspected	11	Miles traveled	3,218
Hotels Inspected	4	Miles per gallon gas	19.86
Theaters Inspected	5	Miles per quart oil	214.53
Oil Burners Inspected	13	Operating cost per mile ..	.0672
Marquises Inspected	23	Dodge Truck No. 2	
Stores Inspected	12	678 gallons gas	\$ 112.06
Fire Escapes in Business District inspected	All	13 quarts oil	2.34
Electric Signs (new)	All	29 quarts anti-freeze	8.10
Awnings (on Main Street)	All	Maintenance and repair ..	60.35
Cornices (on Main Street) ..	4	Insurance	25.95
Dance Halls (fire escapes ordered)	2	Total operating cost	\$ 208.80
		Miles traveled	6,490
		Miles per gallon gas	9.572
		Miles per quart oil	499.00
		Operating cost per mile ...	.032

AUTOMOBILES

The cost of operating the cars used by this department during the year 1929 is listed below:

Chevrolet No. 1	
162 gallons gas	\$ 26.15
15 quarts oil	2.70

Ford No. 3	
148 gallons gas	\$ 23.81
29 quarts oil	5.22
Maintenance and repair ..	34.70
Insurance	3.05
Total operating cost	\$ 66.78
Miles traveled	2,030
Miles per gallon gas	13.71
Miles per quart oil	70
Operating cost per mile ...	.0329

Chevrolet No. 8		Pontiac No. 14	
125 gallons gas	\$ 19.66	335 gallons gas	\$ 56.61
5 quarts oil .....	.90	25 quarts oil	4.50
0 quarts anti-freeze .....	.00	10 quarts anti-freeze	4.00
Maintenance and repair ..	69.40	Maintenance and repair ..	46.55
Insurance	3.05	Insurance	21.05
<hr/>		<hr/>	
Total operating cost	\$ 93.01	Total operating cost	\$ 132.71
Miles traveled	1,760	Miles traveled	4,661
Miles per gallon gas	14.08	Miles per gallon gas	13.91
Miles per quart oil	35.20	Miles per quart oil	186.44
Operating cost per mile ..	.0528	Operating cost per mile ....	.0285
Ford No. 10		Ford Coupe No. 15	
317 gallons gas	\$ 51.42	163 gallons gas	\$ 26.90
22 quarts oil	3.96	20 quarts oil	3.60
13 quarts anti-freeze	5.00	11 quarts anti-freeze	4.40
Maintenance and repair ..	114.70	Maintenance and repair ...	13.75
Insurance	3.05	Insurance	13.95
<hr/>		<hr/>	
Total operating cost	\$ 178.13	Total operating cost	\$ 62.60
Miles traveled	4,804	Miles traveled	2,619
Miles per gallon gas	12	Miles per gallon gas	16.06
Miles per quart oil	218.36	Miles per quart oil	130.95
Operating cost per mile ...	.0371	Operating cost per mile ..	.0238

ENGINEER'S OFFICE: The cost of running your Engineering Department, including all equipment and supplies and all the time devoted to running the department by myself and employees, has been distributed as follows:

1. Engineer's Office

1A. Administration	\$ 4,700.50
1C. Records	1,142.59
1D. Correspondence	161.95
1E. Reports	440.05
1G. Office Supplies	505.67
1H. Office Equipment	58.32
1 I. Surveying Supplies	324.25
1 J. Surveying Equipment	67.22
1M. General Surveys	1,323.72
1N. Sickness and Vacations	441.24
1O. Conventions and Society Meetings....	48.50
1Q. Building Code	2,599.25
1R. Zoning Ordinance	16.69
1S. General Office Work	5,123.01

Receipts	515.84	\$16,437.12
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2. General Equipment

2A. Chevrolet No. 1	\$ 201.01
2B. Dodge No. 2	202.70
2C. Chevrolet No. 8	118.23
2D. Emergency Car No. 3	5.68
2E. Pump No. 1	28.92

2F. Pump No. 2	28.50	
2H. Ford No. 10	181.17	
2I. Pontiac No. 14	933.99	
2J. Ford Coupe No. 15	31.02	1,731.22
	<hr/>	

3. Work for Other Departments

3A. Assessor's Department	\$ 95.81	
3D. Park Department	3.81	
3G. Water Department	222.18	
3F. Street Department	213.84	
	<hr/>	
	\$ 535.64	
Receipts	325.19	210.45
	<hr/>	

4. Sewer Work

Sanitary Sewer Maintenance and Repair		
Labor	\$ 1,896.26	
Supplies	1,032.17	
	<hr/>	
	\$ 2,928.43	
Receipts	189.25	2,739.18
	<hr/>	

Henry Street Pumping Station

Labor	\$ 18.92	
Supplies	173.38	192.30
	<hr/>	

Storm Sewer Maintenance and Repair

Labor	\$ 1,027.84	
Supplies	769.99	1,797.83
	<hr/>	

Sewer Foreman Salary		587.55
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5. City Buildings and Structures

Comfort Station		
Janitor's Salary	\$ 550.00	
Supplies	489.87	
Nik-O-Lok Company—Share of Receipts from Locks	164.43	
Repairs	70.08	
	<hr/>	
	\$ 1,274.38	
Receipts	329.75	944.63
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City Yards

Labor		31.90
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Municipal Garage

Labor		156.17
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6. Sidewalks

6A. Sidewalk Grades	\$ 1,553.91	
6B. Sidewalk Billing	22.64	
	<hr/>	
		\$27,055.76
6C. Sidewalk Inspection	650.86	2,227.41

SUMMARY

Total Expenditure	\$28,415.79
Total Receipts	1,360.03
	<hr/>
Net Cost	\$27,055.76

SUMMARY OF EXPENDITURES FOR OFFICE EQUIPMENT AND SUPPLIES FOR GENERAL WORK OF THE DEPARTMENT

1A. Administration	\$ 49.00
1G. Office Supplies	505.67
1H. Office Equipment	55.06
1I. Surveying Supplies	306.89
1J. Surveying Equipment	66.12
1O. Conventions and Society Meetings	48.50
1Q. Building Code	642.75
1R. Zoning Ordinance	2.10
1S. General Office Work	369.25
	<hr/>
	\$ 2,045.34

SUMMARY OF COST FOR SANITARY AND STORM SEWER

Maintenance Supplies

4A. Sanitary Sewer Maintenance and Repair	\$ 1,032.17
4B. Henry Street Pumping Station	173.38
4C. Storm Sewer Maintenance and Repair	769.99
	<hr/>
	\$ 1,975.54

SUMMARY OF COST FOR SANITARY AND STORM SEWER

Maintenance Labor

4A. Sanitary Sewer Maintenance and Repair	\$ 1,896.26
4B. Henry Street Pumping Station	18.92
4C. Storm Sewer Maintenance and Repair	1,027.84
	<hr/>
	\$ 2,943.02

TOTAL EXPENDITURES: The total expenditure of this department is itemized below:

Services

Engineering	\$18,907.72
Clerical	1,500.00
Inspection	4,055.29
Sewer Maintenance	2,943.02
Sewer Foreman Salary	587.55
Sewer Work on Construction Jobs	545.28
Janitor Service (Comfort Station)	550.00
Supplies	17,558.58
	<hr/>
	\$46,647.44

Receipts	1,360.03
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Total Expenditure	\$45,287.41
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Credits

Assessment and Construction Work

Engineering	\$ 3,376.39	
Inspection	3,404.43	
Sewer Work	545.28	
Supplies	10,905.55	
Office Overhead	5,177.09	\$23,408.74

Total Net Expenditure Out of Budget \$21,878.67

BRIDGE, CULVERT AND CROSSWALK FUND: The total expenditure out of the Bridge, Culvert and Crosswalk Fund by the Engineering Department is itemized below:

Storm Sewer Maintenance	\$ 1,797.83
Storm Sewer Construction	27,130.05
Total	\$28,927.88

SUMMARY OF MONTHLY LABOR REPORTS

General Work of the Department

1. Engineer's Office

1A. Administration	\$ 4,651.50	
1C. Records	1,142.59	
1D. Correspondence	161.95	
1E. Reports	440.05	
1H. Office Equipment	3.26	
1I. Surveying Supplies	17.36	
1J. Surveying Equipment	1.10	
1M. General Surveys	1,323.72	
1N. Sickness and Vacations	441.24	
1Q. Building Code	1,956.50	
1R. Zoning Ordinance	14.59	
1S. General Office Work	4,753.76	\$14,907.62

3. Work for Other Departments

3A. Assessor's Department	\$ 95.81	
3D. Park Department	3.81	
3F. Street Department	199.47	
3G. Water Department	60.00	359.09

4. Sewer Work

4A. Sanitary Sewer Maint. and Repair ..	\$ 1,896.26	
4B. Henry Street Pumping Station	18.92	
4C. Storm Sewer Maintenance and Repair	1,027.84	
4D. Sewer Foreman Salary	587.55	3,530.57

5. City Buildings and Structures

5A. Comfort Station	\$ 550.00	
5E. City Yards	31.90	
5G. Municipal Garage	156.17	738.07

6. Sidewalk Grades

6A. Sidewalk Grades	\$ 1,553.91	
6B. Sidewalk Billing	22.64	
6C. Sidewalk Inspection	650.86	2,227.41
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Total General Work of the Department		\$21,762.76

Assessment and Construction Work

337. Repaving East Huron Street	\$	6.38
464. Broadway Grade Separation Bridge		95.17
475. Allmendinger Heights and South City Limits Sub-Main Sanitary Sewer		224.84
494. Sewage Disposal Plant		770.88
503. Fourth Avenue Storm Sewer, Madison Street to Packard Street		9.44
504. Eber White and Mt. Vernon Storm Sewer, Elder to Park Drive		7.64
513. Davis Ave., Wilder, Hoover and Fifth St. Storm Sewer		56.44
534. Sunset Road between West Line of Section 20, T2S, R6E, and Wildt Street Curb and Gutter		12.62
536. Sybil St. Curb and Gutter, Hoover Avenue and Hill St.		28.70
540. Madison Street Storm Sewer, Main Street to First Street and Fourth Street to Sixth Street		27.46
589. East Ann Street Pavement, State Street to Ingalls St.		133.17
607. Charlton Avenue Storm Sewer		2.18
618. North University Avenue Pavement, East University Avenue to Forest Avenue		212.59
628. Beakes and Kingsley Streets Pavement		163.13
637. West Madison Street Pavement, South Main Street to Seventh Street		101.70
638. Geddes Avenue, Onondaga to City Limits; Highland Rd., Geddes N'yly 260 feet; Berkshire Road, Hill Street to Geddes Avenue; Awixa Road, Geddes Avenue to Angle, Vinewood, Orchard Hills Drive and Outlet Sanitary Sewer		46.64
639. Lincoln Avenue Pavement, Hill Street to Wells Street....		35.02
640. Wells Street Pavement, Packard Street to Ferdon Road		227.73
641. East University Avenue Pavement		64.08
642. Day Street Curb and Gutter		30.45
643. White Street Curb and Gutter		24.68
644. Daniel Street Curb and Gutter		61.19
645. Vinewood Boulevard Curb and Gutter		75.02
646. Brooklyn, Gardner, Westminster Place Storm Sewer		57.71
647. Pine Ridge Curb and Gutter		46.56
648. Washington Heights Storm Sewer, Observotary Street to Valley		27.63
649. Pine Ridge Storm Sewer, Sub-Main S'yly to Maryfield Dr.		13.52

650.	Miner Street Storm Sewer, Felch Street to Miller Avenue	3.91
651.	Linwood Avenue Storm Sewer, Arbana to Linda Vista	7.61
652.	Lafayette Boulevard Sanitary Sewer	32.96
653.	Arbor View Boulevard, Brierwood, Linwood Avenue Sanitary Sewer	18.84
654.	Allmand Heights Addition Sanitary Sewer	55.68
655.	Catherine Street Pavement, Division Street to State St.	7.23
656.	Lawrence Street Pavement, Division Street to State St.	1.00
657.	Melrose Avenue Curb and Gutter, Devonshire Road to Tuomy Road	101.97
658.	Vinewood Boulevard Storm Sewer, Wayne Street E'ly ...	57.70
659.	Brooklyn Avenue Curb and Gutter, Packard Street to Golden Avenue	29.99
660.	Benjamin Street Curb and Gutter, Division Street to Mary Street	37.96
661.	Hoover Avenue Curb and Gutter, State Street to Ann Arbor Railroad Tracks	105.54
662.	Austin Avenue Curb and Gutter, Washtenaw Avenue to Norway Road	22.46
663.	Grand View Drive Curb and Gutter, Jackson Avenue to Dexter Avenue	47.70
664.	Cedar Bend Drive Sanitary Sewer, Broadway S'y	16.27
665.	South Ashley Street Storm Sewer, Huron Street to Washington Street .....	.80
666.	Westwood Avenue Curb and Gutter, Dexter Avenue north to End of Street	77.97
667.	Linwood Avenue Curb and Gutter, Doty Avenue to Wildwood Avenue	6.54
668.	Gardner Avenue Curb and Gutter, Packard Street to Westminster Place	50.09
669.	Montclair Place Curb and Gutter, Gardner Avenue to South End	19.03
671.	South Division Street Curb and Gutter, Hill Street to Hoover Avenue	23.38
672.	Haven Avenue Curb and Gutter, Monroe Street to Hill Street	13.26
674.	Abbott Avenue and Orchard Street Storm Sewer	1.10
676.	Geddes Avenue Pavement, Oswego to Onondaga	6.50
677.	Wilmot Street Pavement, Washtenaw Avenue to Elm Street	8.50
678.	Prospect Street Pavement, East University Avenue to Wells Street	8.00
679.	Berkley Avenue Pavement, Main Street to Belmar Street	8.00
680.	Sunnyside Boulevard Sanitary Sewer, Seventh St. W'ly	4.04
681.	Wright Street Sanitary Sewer, Kellogg Street to Cemetery	4.03
682.	Minglewood, Robin, Vesper, Brooks Sts. Sanitary Sewer	4.03

684.	Oakland Avenue Pavement, South University Avenue to Forest Avenue	11.78
685.	East Ann Astreet Pavement, Division Street to State St.	7.95
686.	Lawrence Street Pavement, Division Street to State St.	6.00
687.	North University Avenue Pavement, Forest Avenue to Observatory Street	6.00
		\$ 3,376.39

Sewer Work

426.	East Madison Street Pavement	\$ 10.84
618.	North University Avenue Pavement, East University Avenue to Forest Avenue	11.45
637.	West Madison Street Pavement, South Main Street to Seventh Street	164.86
639.	Lincoln Avenue Pavement, Hill Street to Wells Street	17.65
640.	Wells Street Pavement, Packard Street to Ferdon Road	340.48
		\$ 545.28

Inspection

464.	Broadway Grade Separation Bridge	\$ 125.16
475.	Allmendinger Heights and South City Limits Sub-Main Sanitary Sewer	456.60
503.	Fourth Avenue Storm Sewer, Madison Street to Packard Street	95.70
513.	Davis Avenue, Wilder, Hoover and Fifth St. Storm Sewer	117.20
534.	Sunset Road between West Line of Section 20, T2S, R6E and Wildt Street Curb and Gutter	38.07
536.	Sybil Street Curb and Gutter, Hoover Avenue and Hill Street	32.22
540.	Madison Street Storm Sewer, Main Street to First Street and Fourth Street to Sixth Street	248.45
589.	East Ann Street Pavement, State Street to Ingalls Street	131.41
618.	North University Avenue Pavement, East University Avenue to Forest Avenue	215.18
628.	Beakes and Kingsley Streets Pavement	141.11
637.	West Madison Street Pavement, South Main Street to Seventh Street	139.82
639.	Lincoln Avenue Pavement, Hill Street to Wells Street	61.32
640.	Wells Street Pavement, Packard Street to Ferdon Road	158.48
641.	East University Avenue Pavement, Hill Street to Packard Street	23.79
642.	Day Street Curb and Gutter	25.61
643.	White Street Curb and Gutter	27.44
644.	Daniel Street Curb and Gutter	53.36
645.	Vinewood Curb and Gutter	48.78
646.	Brooklyn, Gardner, Westminster Place Storm Sewer	77.92

647.	Pine Ridge Curb and Gutter	12.21
648.	Washington Heights Storm Sewer, Observatory to Valley	90.63
649.	Pine Ridge Storm Sewer, Sub-Main S'ly to Maryfield Drive	6.25
652.	Lafayette Boulevard Sanitary Sewer	117.48
653.	Arbor View Boulevard, Brierwood, Linwood Avenue Sanitary Sewer	235.03
654.	Allmand Heights Addition Sanitary Sewer	229.95
657.	Melrose Avenue Curb and Gutter, Devonshire Road to Toumy Road	37.91
658.	Vinewood Boulevard Storm Sewer, Wayne Street E'ly ..	19.00
659.	Brooklyn Avenue Curb and Gutter, Packard Street to Golden Avenue	38.95
660.	Benjamin Street Curb and Gutter, Division Street to Mary Street	29.41
661.	Hoover Avenue Curb and Gutter, State Street to Ann Arbor Railroad Tracks	59.87
662.	Austin Avenue Curb and Gutter, Washtenaw Avenue to Norway Road	39.68
663.	Grandview Drive Curb and Gutter, Jackson Avenue to Dexter Avenue	17.32
664.	Cedar Bend Drive Sanitary Sewer, Broadway S'ly	14.29
666.	Westwood Avenue Curb and Gutter, Dexter Avenue North to End of Street	36.80
668.	Gardner Avenue Curb and Gutter, Packard Street to Westminster Place	26.67
669.	Montclair Place Curb and Gutter, Gardner Avenue to South End	38.94
671.	South Division Street Curb and Gutter, Hill Street to Hoover Avenue	20.00
672.	Haven Avenue Curb and Gutter, Monroe Street to Hill St.	31.73
674.	Abbott Avenue and Orchard Street Storm Sewer	84.69
		\$ 3,404.43
	Total Assessment and Construction Work	\$ 7,326.10

SUMMARY OF MONTHLY INVOICES

General Office Expense

1.	Engineer's Office	
	1A. Administration	\$ 49.00
	1G. Office Supplies	505.67
	1H. Office Equipment	55.06
1 I.	Surveying Supplies	306.89
	1 J. Surveying Equipment	66.12
	1O. Conventions and Society Meetings	48.50
	1Q. Building Code	642.75

COMMON COUNCIL—FEBRUARY 3, 1930

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1R. Zoning Ordinance	2.10	
1S. General Office Work	369.25	\$ 2,045.34
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2. General Equipment		
2A. Chevrolet No. 1	\$ 201.01	
2B. Dodge No. 2	202.70	
2C. Chevrolet No. 8	118.23	
2D. Emergency Car No. 3	5.68	
2E. Pump No. 1	28.92	
2F. Pump No. 2	28.50	
2H. Ford No. 10	181.17	
2 I. Pontiac Coach No. 14	933.99	
2 J. Ford Coupe No. 15	31.02	1,731.22
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3. Work for Other Departments		
3F. Street Department	\$ 14.37	
3G. Water Department	162.18	176.55
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4. Sewer Work		
4A. San'y Sewer Maintenance and Repair	\$ 1,032.17	
4B. Henry Street Pumping Station	173.38	
4C. Storm Sewer Maintenance and Repair	769.99	1,975.54
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5. City Buildings and Structures		
5A. Comfort Station		724.38
Total General Office Expense		<hr/> \$ 6,653.03

Assessment and Construction Expense

389. East University Avenue Storm Sewer, Packard Street to Hill Street	\$ 197.30
464. Broadway Grade Separation Bridge	50,112.49
464A. Division Street Extension	2,561.65
494. Sewage Disposal Plant	3,057.67
517. South State Street Pavement, Granger Avenue to City Limits	200.00
540. Madison Street Storm Sewer, Main Street to First St. and Fourth Street to Sixth Street	16.27
553. Rose Avenue Storm Sewer, Golden Avenue to White Street .....	.75
555. South Seventh Street Storm Sewer, Madison Street to Pauline Boulevard	83.71
589. East Ann Street Pavement, State Street to Ingalls Street	145.55
611. Wilmot Street Storm Sewer, Washtenaw Avenue to Mack Road	38.35
613. North University Avenue Storm Sewer, Camden Court East 255 feet	6.84

616.	Awixa Road Storm Sewer, First Angle North of Geddes Avenue to Lenawee Drive	49.63
617.	Sunset Road Storm Sewer, Spring Street to Wildt Street	37.10
618.	N. University Avenue Pavement, East University Avenue to Forest Avenue	667.27
628.	Beakes and Kingsley Streets Pavement	562.89
637.	West Madison Street Pavement, South Main Street to South Seventh Street	283.12
639.	Lincoln Avenue Pavement, Hill Street to Wells Street	534.40
640.	Wells Street Pavement, Packard Street to Ferdon Road	1,269.96
641.	East University Avenue Pavement, Hill Street to Packard Street	687.74
645.	Vinewood Boulevard Curb and Gutter	85.50
646.	Brooklyn, Gardner, Westminster Place Storm Sewer	136.00
657.	Melrose Avenue Curb and Gutter, Devonshire Road to Toumy Road	28.50
660.	Benjamin Street Curb and Gutter, Division Street to Mary Street	57.00
661.	Hoover Avenue Curb and Gutter, State Street to Ann Arbor Railroad Tracks	42.44
666.	Westwood Avenue Curb and Gutter, Dexter Ave. North to End of Street	29.17
671.	South Division Street Curb and Gutter, Hill Street to Hoover Avenue	14.25
		\$60,905.55
	Total Assessment and Construction Expense	\$60,905.55

Total Expenditures

Services

General Work of the Department	\$14,907.62
Work for Other Departments	359.09
Sewer Work	3,530.57
City Buildings and Structures	738.07
Sidewalks	2,227.41
Assessment and Construction Work	7,326.10
Total	\$29,088.86

Material and Supplies

General Office Expense	\$ 2,045.34
General Equipment	1,731.22
Work for Other Departments	176.55
Sewer Work	1,975.54
City Buildings and Structures	724.38
Assessment and Construction Expense	60,905.55
Total	67,558.58

Total Expenditures	\$96,647.44
Receipts	1,360.03
Net Expenditures	\$95,287.41

CLASSIFICATION OF EXPENDITURES FOR LABOR DURING 1929

	Engineering	Clerical	Inspection	Sewer Work	Totals
Geo. H. Sanden- burgh	\$ 4,650.00				\$ 4,650.00
H. R. Scovill	3,150.00				3,150.00
V. W. McAdam	2,400.00				2,400.00
K. W. Donnell	1,967.73		46.77	85.50	2,100.00
F. Schmid	505.35		709.30	585.35	1,800.00
Julius Lohrke	94.42			1,645.58	1,740.00
Wm. Maulbetsch	1,661.54				1,661.54
C. M. Mast		1,500.00			1,500.00
H. Ferez	938.92		178.85	19.73	1,137.50
Geo. Bleekman	391.50		622.50	2.00	1,016.00
Alex Jarowski	62.70			935.99	998.69
Willard Ponto	840.05			37.70	877.75
Walter Sauer	21.14		662.52		683.66
Wm. Austin	640.20			35.10	675.30
W. B. McMillen			650.86		650.86
J. Rogers	15.00		578.86		593.86
Jim Acqui	4.80			533.70	538.50
A. K. Darbaker	15.37		470.63		486.00
Harry Caswell	450.00				450.00
John O'Brien	379.75				379.75
K. Lundquist	360.25				360.25
K. Kaufmann	231.50			7.25	238.75
Louis Scovill	127.50			186.00	313.50
C. J. Sweet			135.00		135.00
James Mason				1.95	1.95
Steve Arnold, Janitor Comfort Station					525.00
Ray Arnold, Janitor Comfort Station					25.00
	<u>\$18,907.72</u>	<u>\$1,500.00</u>	<u>\$4,055.29</u>	<u>\$4,075.85</u>	<u>\$29,088.86</u>

ANNUAL REPORT OF MUNICIPAL GARAGE

Receipts

Engineering Department	\$ 971.74	
Health Department	358.80	
Park Department	596.15	
Police Department	935.99	
Street Department	6,075.48	
Water Department	1,416.10	
Cemetery Department	1.54	\$10,355.80
Gas Tax Refund		1,115.24
Total Receipts		<u>\$11,471.04</u>
Supplies on Hand Jan. 1, 1930		2,481.49
Budget 1929-1930		1,200.00
		<u>\$15,152.53</u>

Expenditures

Supplies and Equipment	\$10,473.62	
Mechanic's Salary	2,400.00	
Relief Mechanic's Salary	70.00	
Supplies on Hand Jan. 1, 1929	1,725.00	\$14,668.62
		<hr/>
		\$ 483.91

NEW MUNICIPAL GARAGE

This project has been under consideration for a number of years. The garage building is located just east of the Ann Arbor Railroad between Summit Street and Felch Street. The site, as now owned by the City, was originally three parcels, which were bought by the City at different times. The site contains about three acres of land.

In the 1928 budget, \$15,000.00 was placed in the Street Fund for the purpose of erecting a new garage building, and in the 1929 budget an additional \$12,000.00 was placed in the same fund. In the 1928 budget an item of \$6,500.00 was placed in the Street Fund for contingencies, to be used for the construction of the Municipal Garage, if not needed for any other purpose. This money was not used for any other purpose, so at the time the contract was awarded, in July, 1929, there was a fund of \$33,500.00.

The contract for the construction of the garage building was awarded to Mr. Clay Kingsley at a price of \$22,000. This contract did not include the heating, plumbing or electrical wiring. The heating and plumbing contract was awarded to Hutzler and Company and the electrical wiring contract to J. E. Beeler. The total amount of the bid of these three firms was \$26,624.00. This amount does not include the concrete floor in the main part of the building. This concrete floor is being constructed by the Street Department.

The building as erected is 184 feet long, about 65 feet wide, and the mechanic's shop is 24 feet by 65 feet. The width of the build-

ing is a clear span without any columns, the roof being supported by steel trusses 65 feet in length. The heating system consists of a Pacific type steel boiler with Iron Fireman automatic stoker. The radiation consists of five unit heaters, four in the storage part and one in the shop, which are capable of heating the building to 60 degrees F. when the outside temperature is 10 degrees below zero F. There is a coal bin adjacent to the boiler room, which holds 50 tons of coal.

The main entrance doors, one on the east side of the building and one on the south end, are steel doors of the roller type with automatic electric control.

The building is equipped with up to date toilet facilities, including a shower and also a room that can be used as an office. An 18,000 gallon gasoline tank has been installed about 100 feet from the garage. The gasoline from this tank is piped to the garage building and by means of an electric driven gasoline pump, it is pumped through a meter and into the cars automatically. By buying gasoline in tank car lots we are able to save eight cents per gallon. On the tank car purchased in December, we, therefore, made a saving of \$660.72, which is more than the 18,000 gallon tank cost. As we use approximately 40,000 gallons of gasoline per year, and if this same margin of saving per gallon continues, we will be able to save about \$3,000.00 on gasoline during the coming year by virtue of being able to buy gasoline in tank car lots.

A Page wire fence 96 inches in height will be erected as soon as

weather conditions permit in the spring, and additional improvements made to the yards during the coming summer. I think we have a very fine building and the location for such a building and the Municipal yard cannot be improved upon. I do not believe there is a better located or better equipped yard and garage in the state.

The cost of the garage building to date is as follows:

Engineering	\$ 156.17
Building Contract	18,071.10
Electrical Contract	200.00
Plumbing Contract	3,600.00
Work by Street Dept. ..	2,397.02
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Total cost to January 1, 1930	\$24,424.29

SUMMARY OF PAVEMENTS IN THE CITY OF ANN ARBOR

Dist. No.	Street and Limits	Date	Area Sq. yds.	Total Cost	Cost per sq. yd.	Cost per sq. yd. Pavement only	Type
1 & 2	Main	1898	12,730	\$ 31,375.15	\$2.46	\$1.64	Brick on concrete
3	Washington, Ashley - 5th Av.	1899	5,140	11,645.17	2.27	1.73	Brick on concrete
4	Huron, Ashley to State	1900	10,791	27,845.38	2.58	2.17	Asphalt block on sand
5	State, Huron to Monroe	1902	12,484	31,778.98	2.55	2.16	Asphalt block on sand
6	Ann, Main to 4th Ave.	1902	1,589	2,860.70	1.80	1.39	Brick on sand
7	Liberty, Ashley to State	1903	9,140	24,486.06	2.68	2.19	Asphalt block on sand
8	Fourth Av. Huron to Liberty	1903	2,431	6,490.80	2.67	2.19	Asphalt block on sand
9	N. University	1905	5,045	10,720.16	2.03	1.63	Brick on concrete
10	Williams	1907	7,519	19,092.01	2.54	2.03	Bithulithic
11	Alley	1908	350	672.74	1.92	1.50	Brick on concrete
12	Maynard	1909	1,883	1,930.13	1.03	.78	Ann Arbor tar—concrete
13	N. Fourth Av., Huron to Ann	1910	1,159	1,351.34	1.17	.88	Ann Arbor tar—concrete
14	E. Huron and Twelfth	1910	6,765	6,685.50	.99	.76	Ann Arbor tar—concrete
15	Washington, 5th Ave. to 12th St.	1910	8,633	8,189.73	.95	.71	Ann Arbor tar—concrete
16	Washtenaw Ave.	1911	12,092	12,392.81	1.03	.78	Ann Arbor tar—concrete
17	State, Packard to Arch	1911	2,587	2,672.49	1.03	.84	Ann Arbor tar—concrete

Note:—The pavement between the rails of the street car track on Wash-
tenaw Ave., and between the rails and for a distance of 18
inches on either side of the track on Packard and Main Sts., is
of brick on concrete, and is not included in the above statement.

18	S. Main and Packard	1911	20,826	23,172.05	1.11	.78	Ann Arbor tar—concrete
19	N. Main, Catherine St. N'y	1911	10,117	11,110.86	1.10	.82	Ann Arbor tar—concrete
20	Hill and Oswego	1913	5,682	7,726.41	1.36	.93	Ann Arbor tar—concrete
21	Fifth Ave.	1911	10,483	11,678.31	1.12	.84	Ann Arbor tar—concrete
22	Alley	1911	293	314.84	1.07	.84	Ann Arbor tar—concrete
23	Alley	1911	920	1,029.38	1.12	.77	Ann Arbor tar—concrete
24	Arch and Thayer	1911	1,833	1,747.35	.95	.77	Ann Arbor tar—concrete
25	State, Monroe to Packard	1911	3,158	3,181.57	1.01	.78	Ann Arbor tar—concrete
26	Mary	1912	2,407	2,703.08	1.12	.89	Ann Arbor tar—concrete
27	Ashley	1912	7,711	9,071.92	1.18	.91	Ann Arbor tar—concrete
28	W. Liberty St., Ashley to City Limits	1913	15,612	20,836.90	1.34	.98	Ann Arbor tar—concrete
29	W. Huron, Ashley to Forks	1913	14,131	19,257.61	1.36	1.01	Ann Arbor tar—concrete
30	Church St., Washtenaw to Prospect	1914	11,832	14,802.93	1.25	.98	Ann Arbor tar—concrete
31	Hill St., State to Washtenaw	Not completed					
32	Ann St., Main to First	1915	2,085	2,740.80	1.33	1.02	Reinforced concrete
33	Jefferson St., 5th Av. to State	1915	4,924	8,665.40	1.62	1.30	Asphaltic concrete
34	Division, Detroit to Packard	1915	14,372	24,733.97	1.60	1.29	Asphaltic concrete
35	Geddes, Oxford to Oswego	1915	3,273	5,431.55	1.66	1.19	Reinforced concrete
36	Catherine St. and Miller Ave.	1916	9,596	22,629.31	2.36	1.95	Brick on concrete base
37	Alley, Blk. 2 S, R 3 E	1918	470	839.29	1.78	1.59	
38	Broadway, Swift to M. C. via- duct	1919	3,521	14,881.66	4.23	3.55	Brick on concrete base
39	Detroit St., Catherine St. to M. C. Viaduct	1919 and 1920	7,279	31,350.03	4.30	3.37	Brick on concrete

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

Note:—Cement-sand mortar cushion used on Broadway pavement.

40	Catherine St., Fourth Ave. 1919 and and Detroit St. ....1920	6,188	26,419.46	4.26	3.37	Brick on concrete
41	Jackson Forks to City Limits1919	5,982	19,746.43	3.30	2.38	Asphaltic concrete
42	Thayer, Huron to N. Univer. 1919	2,528	7,648.54	3.03	2.25	Asphaltic concrete
43	E. University, Washtenaw 1919 and to Hill .....1920	9,043	28,928.46	3.19	2.40	Asphaltic concrete
44	S. University, State to Oxford1920	11,474	39,182.84	3.41	2.40	Asphaltic concrete
45	Alley, Blk. 3 S, R 3 E .....1920	503	1,506.23	3.00		Concrete
46	Alley, Blk. 2 N, R 3 E .....1921	471	992.57	2.11		Concrete
47	Alley, Blk. 3 N, R 4 E .....1921	978	1,769.85	1.79		Concrete
		4,962			2.51	Sheet Asphalt
48	State St., Huron to Fuller ..1922	3,423	29,923.48		3.79	Brick
49	Hill, Packard to Washtenaw.1922	11,806	35,383.57	3.00	2.51	Sheet Asphalt
50	Packard, Granger to Lts. ...1922	5,602	17,129.92	3.06	2.51	Sheet Asphalt
51	Cross, Packard to Division ..1922	811	1,925.32	2.73		Concrete
52	Fourth Ave., Liberty to Packard .....1923	4,131.5	16,071.90	3.89	3.24	Sheet Asphalt
53	Geddes, Washtenaw to Oxford1923	9,641	38,473.48	3.99	3.24	Sheet Asphalt
54	S. State, Arch to Granger ..1923	7,007	27,048.30	3.86	3.24	Sheet Asphalt
55	Washtenaw, Oxford to Lts...1924	4,645	25,270.78	3.65	3.01	Sheet Asphalt
					3.41	
56	S. Main, Packard to Lts. ....1924	19,221	82,249.37	4.28	3.66	Sheet Asphalt
57	Alley, Blk. 2 S, R 5 E .....1924	460	1,679.48		2.97	Concrete
58	Thompson, Liberty to Packard1924	8,094	31,789.39	3.92	3.20	Sheet Asphalt
59	Hamilton Pl., Williams to Jefferson .....1924	1,400	6,102.78	4.35	3.20	Sheet Asphalt
60	Alley, Wells to Scott, Lincoln Martin .....1924	617	2,229.08	3.61	3.00	Concrete

61	Maynard St., Williams to Jefferson	1924	1,833	6,629.59	*3.61	3.20	Sheet Asphalt
62	Oak Lane, Austin to Fr. Oaks	1924	422	1,427.41	3.38	2.95	Concrete
63	Observatory, Ann to Geddes	1924	6,918	27,273.80	3.94	3.20	Sheet Asphalt
64	Huron, 14th St. and Ann	1925	7,509	30,505.95	4.06	3.30	Sheet Asphalt
65	Glen, Huron to Catherine ..	1925	2,782	11,311.36	4.07	3.30	Sheet Asphalt
66	W. Washington, Revena and First	1925	18,939	67,939.31	3.59	3.10	Sheet Asphalt
67	Ann St., Glen to 14th	1925	1,849	7,311.82	3.95	3.30	Sheet Asphalt
68	Forest Ct., Forest E'ly	1925	573	2,375.99	4.14	2.70	Concrete
69	First St., Huron to Ann	1925	*1,273	4,708.34	3.70	3.30	Sheet Asphalt
70	State St. Widening, Huron to Williams	1925	834	7,587.03		5.20	Brick
71	S. Fifth Ave., Packard to Madison	1925	*1,820	5,059.68	2.78	2.54	Concrete
72	Ingalls St. and Kingsley St., N. University to State ...	1926	9,910	36,698.94	3.70	2.65	Sheet Asphalt
73	Geddes Heights, Geddes Ave. N'y to End	1926	1,353	3,608.17	2.67	2.30	Concrete
74	N. Main St. S. T. L., No. 65- 10, 2694 N to City Lts. ..	1926	8,990	45,113.06	4.57		Sheet Asphalt
75	Broadway, Swift to Moore...	1926	2,739	8,701.12	3.19	2.40	Concrete
76	Dexter Ave., Forks to City Limits	1927	9,968	41,228.30	3.83	3.00	Sheet Asphalt
77	Ashley, Williams to Jefferson	1927	2,256	7,155.16	2.92	2.06	Concrete
78	Third St., W. Washington to Liberty	1927	1,355	4,153.24	3.07	2.70	Sheet Asphalt

79	S. 7th St., W. Liberty to W. Madison	1927	5,202	16,116.89	3.10	2.70	Sheet Asphalt
80	N. Seventh St., Miller to Huron	1927	5,575	17,251.88	3.09	2.70	Sheet Asphalt
81	Spring, Miller to Hiscock ...	1927	4,880	15,135.54	3.10	2.75	Sheet Asphalt
82	Chapin, Miller to Huron	1927	2,081	4,883.99	2.35	2.06	Reinf. Concrete
83	Miller, Gott to Seventh	1927	1,963	8,705.69	4.08	3.50	Brick on Concrete
84	Lawrence, State to Ingalls ..	1927	2,243	7,713.24	3.29	2.80	Sheet Asphalt
85	Catherine, 5th Ave. to Division	1927	1,814	4,454.93	2.46	2.16	Reinf. Concrete
86	E. Ann, 4th Ave. to 5th Ave..	1927	1,152	5,228.38	4.16	3.50	Brick on Concrete
87	Elm, Geddes to S. University.	1927	1,671	5,347.73	3.20	2.80	Sheet Asphalt
88	Arbor St., State to Oakland.	1927	1,407	3,556.39	2.53	2.16	Reinf. Concrete
89	Ferdon Rd., Washtenaw to Granger	1927	4,414	17,644.72	2.56	2.80	Sheet Asphalt
90	Granger, Packard to Ferdon.	1927	6,254	21,774.40	3.46	2.80	Sheet Asphalt
91	W. Huron widening, Ashley to A. A. R.	1927	1,013	4,559.90	4.50	2.00	Concrete
92	W. Jefferson, Main to 7th ..	1928	8,874	28,326.16	3.18	2.70	Sheet Asphalt
93	Monroe, State to E. Univ. ...	1928	4,733	19,288.61	3.74	2.80	Sheet Asphalt
94	E. Kingsley, State to Detroit.	1928	3,520	14,245.73	3.68	2.80	Sheet Asphalt
95	Granger, Packard to State...	1928	5,785	19,295.28	3.34	2.80	Sheet Asphalt
96	E. Liberty Widening, State to Fifth Ave.	1928	1,750	10,892.46	6.22	2.30	Concrete
97	Division, Madison to Hill ...	1928	2,597	8,493.31	3.27	2.80	Sheet Asphalt
98	E. Ann, 5th Ave. to Division.	1928	2,123	4,810.59	2.76	2.00	Reinf. Concrete
99	Adams, Main to Hill	1928	1,069	4,388.97	3.41	2.06	Reinf. Concrete

100	Harvard Pl., Geddes N'yly to End	1928	1,647	4,595.32	2.79	2.30	Reinf. Concrete
101	Forest, Washtenaw to Huron	1928	5,966	19,753.71	3.31	2.80	Sheet Asphalt
102	Kenwood, Jackson to Abbott	1928	1,371	3,189.34	2.33	2.00	Reinf. Concrete
103	Greenwood, Packard to E. University	1928	1,640	3,792.18	2.31	2.00	Reinf. Concrete
104	State, Granger to City Limits	1928	3,976	State 7,886.71 City 3,717.98			Sheet Asphalt
	Detroit St., D. U. R. Tracks, Catherine to Fuller	1928	1,163	5,462.62	4.70	4.00	Brick on Concrete
105	Wells St., Packard to Ferdon	1929	10,001	33,720.86	3.37	2.40	Black Base
106	East Ann St., State to Glen	1929	4,630	14,325.57	3.09	2.19	Reinf. Concrete
107	West Madison St., Main to Seventh	1929	9,390	24,398.90	2.59	2.19	Reinf. Concrete
108	East University Ave., Hill to Packard	1929	6,328	19,616.99	3.10	2.40	Black Base
109	Beakes and Kingsley, Sum- mit to Main	1929	6,642	26,956.94	4.06	2.90	Sheet Asphalt
110	Lincoln Ave., Hill to Wells..	1929	6,681	19,954.06	2.99	2.40	Black Base
111	North University Ave., State to Forest	1929	3,480 2,564	24,925.61	3.45	2.40	Sheet Asphalt Black Base
GRAND TOTALS			586,772	\$1,652,765.45			

Pavement between tracks is not included.
*Curb and Gutter was in.

SUMMARY OF STORM SEWERS IN THE CITY OF ANN ARBOR

Street	Year	Size Main	Length Main	Manhole	Inlets	Inlet Runs	Total Cost	Contractor
Prior to 1900.....							\$ 26,411.72	
State St. Hill to S. U.	1902	18	1,148	6	16	525	1,667.22	
Ann St. Main to 4th. Ave.....	1902						543.95	
Packard & State Sts.....	1905	20	320	1	7	400	361.00	
		24	300					
E. Williams, Main to Maynard	1905	20	891					
		18	248					
		15	332	6	29		3,014.67	
		10				1,166		
		30	305					
Judson's Sewer	1906	15	86	2	3		855.91	L. Dresselhouse
Roosevelt Ave	1906						854.50	
		18	1,527					
E. Washington St.....	1906	15	811					
		12	297					
E. Washington St.....	1906	10		9	28	875	3,781.82	L. Dresselhouse
Hill & Washtenaw	1909						653.90	
Washington, East of State.....	1910		641	3	11	390	563.37	
Ann St. & Alley, B1N, R4E	1911						443.14	
Alley, B35,R3E	1911						250.92	
Hill St. Oxford to Cambridge.....	1911						116.87	

Packard St. Hill to Monroe.....	1911	20	651	2	6	185	868.97	
Hill St. Cambridge to Oswego....	1911						340.66	
N. Main St.	1911						207.47	
Mary & Benjamin	1911						884.78	
Church St. S. U. to Washtenaw.....	1911	18	916	4	15	550	1,291.44	
		4x4	1,357					
Arch, White, McKinley & Packard.....	1911	12	270	2	8	80	3,422.95	
Other Storm Sewer Work.....	1911						1,552.01	
		20	1,933					
Church St. S. U. to Roosevelt....	1912	15	221	7	20	650	2,776.43	
Willard St. Church Westly.....	1912		144	1	2	28	168.53	
W. Liberty, Alley W. of Ashley.....	1912	12	85	0	2	20	63.99	
Ashley, for pavement	1912						267.00	
W. Huron St. Creeks to Fork.....	1913		3,435	12	28		4,483.12	City Force Acct.
W. Liberty St. Creek to City Lts.....	1913		3,773	14	26		4,077.47	City Force Acct.
W. Liberty St. Cor First St.....	1913				9		103.46	City Force Acct.
E. Washington, 12th to 14th.....	1913		280	1	2		439.95	City Force Acct.
Cambridge Rd. Forest to Lincoln.....	1914		987	6	20	741	2,397.22	E. L. Schneider
W. Jefferson St. 2nd to 3rd.....	1914		339	1	10	446	1,095.62	E. L. Schneider
N. Division St. Detroit to Ann.....	1914		1,480	7	20	780	2,309.81	Dederich & Eddy
Madison, Division & Jefferson.....	1915		1,975	12	24	752	3,646.17	Dederich & Eddy
E. Jefferson, 5th Ave. to Hamil- ton Place.	1915		274	3	6	173	506.23	Dederich & Eddy
Alley, North of Liberty St.....	1914				1	58	33.84	City Force Acct.
Alley South of Ann St.....	1914				1	43	59.64	City Force Acct.
Geddes Ave. Linden to Blvd.....	1915		854	4	8	186	1,056.21	E. L. Schneider
Division St. at Liberty, Williams, Liberty	1915		95	1	1	205	253.70	City Force Acct.
Edwin & McKinley	1916		1,330		7	110	6,447.94	Barns & O'Neil
Glen Ave. Washtenaw to River ..	1916		2,201	21	27	1,134	13,350.33	Wm. Eddy & Son
Miller Ave. Creek to Brooks.....	1916		2,124	12	28	986	7,410.60	A. H. Prange

Miller Ave Inlets for Pave.....	1916		2	11	130	159.45	City Force Acct.
Small Extension & Inlets.....	1915			13	500	434.01	City Force Acct.
W. Jefferson St. 3d to 6th.....	1917	971	4	17	605	2,027.85	Hochrein & Co.
W. Madison St. 1st. to 4th.....	1917	990	6	12	544	2,766.86	Hochrein & Co.
Arch St. Packard to Oakland.....	1917	375	3	6	195	674.42	Wm. Eddy & Son
State St., Edwin to Dewey, Dewey Ave. State to Packard.....	1917	2,824	15	22	545	12,448.71	Wm. Eddy & Son
S. University, State to E. U.....	1917	780	7	6	94	1,510.87	Wm. Eddy & Son
Cambridge Rd. Lincoln to Baldwin Baldwin Ave. Cambridge to Washtenaw	1917	1,123		20	531	4,133.03	Wm. Eddy & Son
Alley, B2N, R4E	1917			3	250	253.43	City Force Acct.
Washington & 14th Sts.....	1918	824	5	10	320	3,913.58	A. W. Baldwin
Gott St. Miller to Summit.....	1918	1,224	5	14	514	5,663.73	Wm. Eddy & Son
Catherine, Main to Alley.....	1918	119	2	1	13	713.01	Wm. Eddy & Son
Hoover, at Hoover Ball Co.....	1918	191	1	3	84	694.07	Wm. Eddy & Son
Jackson Ave. Huron to City Lts..	1919	1,814	12	12	513	3,879.18	Wm. Eddy & Son
Catherine St. Main to 5th. Ave..	1919	495	6	10	418	2,248.80	Wm. Eddy & Son
Detroit St. Kingsley to 5th. Ave..	1919	327	3	14	445	1,634.47	Wm. Eddy & Son
Broadway, River to Swift.....	1919	210	3	7	248	1,016.12	Wm. Eddy & Son
E. Univ. Ave. S. U. to N. U.....	1919	966	4	8	298	2,482.86	Wm. Eddy & Son
S. Univ. Ave. Linden to Oxford ..	1919	654	2	6	210	1,245.91	Wm. Eddy & Son
Hill St. Church to E. U.....	1919	286	1	4	200	796.43	Wm. Eddy & Son
Dexter Ave. at End of Pav't.....	1919	50				100.33	City Force Acct.
Fourteenth St. Huron to Wash..	1920	268	1	2	24	926.89	Wm. Eddy & Son
Hill St. Church to Lincoln.....	1920	1,238	5	9	286	2,909.45	City Force Acct.
Alley, B3S, R3E	1920	300	3	3		489.36	City Force Acct.
		24				1,702	
N. State St River to Huron.....	1921	30	9	22	594	15,025.06	City Force Acct.
Fuller St. State to Elizabeth.....	1921	12	2	6	174	965.53	City Force Acct.
E. Kingsley & Ingalls	1921	12	4	15	352	2,315.21	City Force Acct.

	24	915						
	30	604						
Granger, Golden & Olivia.....1921	39	910	10	20	558	14,782.75	City Force Acct.	
	12	166						
Packard St. Granger, S'Ely.....1921	15	382	3	6	145	1,589.82	City Force Acct.	
Hill St. Oswego to Onondaga....1921	12	493	3	4	68	1,114.63	City Force Acct.	
	12	898						
	15	176						
Kingsley & Alley, B3N, R4E.....1921	18	184	9	4	145	2,697.31	City Force Acct.	
Sixth St. Creek to Liberty.....1921	12	339	2	4	82	702.30	City Force Acct.	
	15	332						
Seventh St. Creek to Madison....1921	18	638	4	6	146	3,794.89	Wm. Eddy & Son	
Alley, B2N, R3E.....1921	12	234	2		76	685.58	Wm. Eddy & Son	
Depot St. ....1921	42	723						
Fifth Ave. ....1921	30	868	9	27	804	20,565.77	Wm. Eddy & Son	
Beakes St. ....1921	15	381						
Fourth Ave. ....1921	12	162						
Wells St. Olivia to Lincoln.....1921	20	447	3	6	193	1,804.20	Sydnae Gustin Co.	
	15	88						
Cambridge Rd. ....1921	22	361	3	4	90	1,948.23	Sydnae Gustin Co.	
Golden Ave. & Woodlawn .....1922	42	823						
Packard St. & Wells .....1922	42	520	10	11	376	30,860.87	Bartling & Dull	
Wells & Forest to Cambridge ....1922	48	1,268						
Brooks St. Miller to Hiscock.....1922	22	459	8	10	222	4,821.69	Patrick Ryan, Jr.	
	18	225						
Brooks St. N. of Pearl to Hiscock1922	15	1,170						
Brooks St. N. of Pearl to end S. Hill .....1922	12	500						
Fourth Ave. Alley to Washington.1922	12	134	1			325.94	City Force Acct.	

Broadway, Creek to Jones	1922	12	370	2	6	300	777.28	City Force Acct.
S. Division & Cross Sts.	1922	12	613	3	7		1,092.39	City Force Acct.
Onondaga, Hill, Sly.	1923	12	180	1	2	27	429.25	Wm. Eddy & Son
Washtenaw Ave. Oxford to Baldwin	1923	22	150	3	4	63	5,299.20	Patrick Ryan
Washtenaw Ave. Cambridge to Fer.	1923	12	225	2	8	350		
Washtenaw Ave. Wayne to Fair Oaks	1923	15	103	2	4	136		
Washtenaw Ave. Berkshire to Old Lts.	1923	12	563	3	12	320		
Washtenaw Ave. Outlets	1923	12	310					
Forest Ave. Hill to Wash.	1923	36	2,222	9	13	260	22,604.00	Wm. Eddy & Son
Forest Ave. at Washtenaw	1923	30	37					
S. State, Dewey to Boulevard Dr.	1923	12	380	2	3	130	1,077.59	Patrick Ryan
Oakland Ave. Hill St. Nly.	1924	24	513	1	2	35	3,378.57	Frank Ryan
Jefferson St. 2nd to Creek	1924	27	750	5	4	130	5,838.60	Frank Ryan
Second St. Jefferson, Nly.	1924	12	372	2	2	53	972.81	Frank Ryan
Fourteenth St. Belser to Volland	1923	15	454	6	11	253	3,284.93	Patrick Ryan
Camden & Geddes	1923	12	831					
S. Main & Jefferson	1924	12	414					R. D. Ballew
S. Main, Davis to Hoover	1924	22	276					
S. Main, Pauline to Hoover	1924	20	377					
S. Main, Madison to Mosley	1924	15	456					
S. Main, Hill to Mosley	1924	12	436					
		27	48					
S. Main, Outlet at Davis	1924	18	37					
S. Main, Fischer to Berkley	1924	12	329					
S. Main, Outlet at Berkley	1924	18	38					
S. Main, outlet at Madison	1924	18	131	12	29	1,335	11,005.01	R. D. Ballew
Davis Ave. Main St. W'ly to Angle	1924	20	305	2	1	18	1,211.22	City Force Acct.
Broadway, Jones to Cedar Bend	1924	12	1,691	9	13	272		
Broadway, Traver Ct. to Moore	1924	20	720					

Moore St. Broadway to Traver.....	1924	15	228	3	5	172			
Moore St. Traver to Cedar	1924	12	329	1	1	16			
Cedar St. Moore to Wright	1924	12	340	3	9	145	10,625.06	Wm. Eddy & Son	
		15	197						
Seventh St. Cr. to Washington....	1924	18	250						
		15	665						
Washington St. 7th. to Crest.....	1924	18	593						
Crest Ave. Washington St. S'ly....	1924	12	318						
Third St. Creek to Krause	1924	12	521	12	23	1,285	9,503.44	Frank Ryan	
		12	370						
Ann St. Glenn to Observatory....	1924	15	851	6	11	270	3,419.49	Frank Ryan	
Spring St. Hiscock to Sub. N'ly....	1924	12	169						
Spring St. Sub. to Summit St....	1924	24	434						
Spring St. Summit N'ly.....	1924	12	750						
Spring St. Miller Ave. to Cherry St.	1924	12	605						
Sub. Daniel St. to Spring St.....	1924	22	360	11	6	145	7,667.90	R. T. Liddicoat	
Cambridge R. Washtenaw to Day....	1924	15	446						
Day to Angle near Wayne	1924	22	426						
To Valley on Wayne	1924	18	335	8	10	250	5,379.02	Frank Ryan	
		22	250						
Felch St. Allens Cr. to Spring....	1924	15	460	3	8	197	2,702.82	R. T. Liddicoat	
Felch St., Spring to Fountain....	1924	15	420						
Felch St. Miner to Fountain....	1924	12	445	3	8	330	2,694.97	R. T. Liddicoat	
Adams Ave. Hill St. to Angle	1924	12	107	1	2	25	216.52	City Force Acct.	
S. Univ. Ave. Wash. to Walnut....	1924	27	386						
S. Univ. Ave. Linden to Walnut....	1924	22	401						
Walnut St., S. U. to Geddes.....	1924	15	718						
Elm St. S. U. to Wilmot	1924	12	570	12	9	177	7,330.35	Frank Ryan	
		18	350						
Thompson St. Packard to Cheever..	1924	12	222	4	13	520	2,661.30	A. A. Asphalt Co.	

Cambridge Rd. Hill St. S'ly....	1924	12	300	1	2	28	605.88	Frank Ryan
Alley, B4S, R4E	1924	12	213	2	1	.	661.69	Frank Ryan
Geddes Ave. Outlet to Awixa	1925	25	24					
Geddes Ave., Awixa to Lenawee ..	1925	18	382					
Geddes Ave. Lenawee to Oswego...	1925	12	1,106	10	18	401	3,603.87	John Baker
Belser St., 14th St. E'ly. 250 ft.	1925	15	250					
Belser St. 15 in. to Observatory ..	1925	12	366	1	2	34	748.02	John Baker
Wayne St. Wash. to Vinewood....	1925	12	523	2	5	188	1,040.66	John Baker
Summit St., Spring to Lulu Ct....	1925	24	207	3	2	57	1,592.06	R. T. Liddicoat
E. Summit St. Main E'ly.....	1925	12	104	1	2	43	355.90	R. T. Liddicoat
Chapin St. W. Park to Miller.....	1925	12	275	2	2	21	388.64	John Baker
Ann St., Catherine, Lawrence from State to Ingalls	1925	12	1,554	5	18	647	2,971.70	John Baker
Hiscock St. Outlet to Drain	1925	18	311	2	4	56	1,351.65	R. T. Liddicoat
North Main St. City Limits, S'ly		20	402					
1625 ft.	1926	12	1,239	5	8	338	4,071.17	Frank Ryan
		22	801					
Granger Ave. Golden to State....	1926	15	339	7	14	960	4,528.92	J. Brogan & Son
Dexter Ave. Forks W'ly. 1014 ft.		12						
Westwood to Fairview. Out-		12	1,950					
let in Valley 166 feet		24	148					
Run to Glendale 78 ft.....	1926	15	78	13	25	722	4,927.16	John Baker
Catherine St. Glen to Ingalls	1926	12	603	5	4	71	1,124.94	J. Brogan & Son
Revena Blvd., Huron St. to W. Park Sub-Main	1926	22	547	6	3	97	3,142.47	J. Brogan & Son
		12	160					
Felch St. Main to Allen's Creek....	1926	15	243	3	5	212	1,273.25	J. Brogan & Son
Davis St. Main to Greene								
Greene St. Davis St. to Hill St.		36	633					Patrick Ryan

Hill St. Brown to Allen's Creek...1926	30 12	661 312	12	25	563	12,644.60	sublet to R. T. Liddicoat
Gott St. Summit N'ly. 1148 ft.....	22	611					
Hiscock St. Gott to Miner	15	536					
Pearl St. Gott to Miner	12						
Summit St. Gott to Miner	12	981	11	20	664	6,248.54	R. T. Liddicoat
	30	613					
	24	298					
Henry St.	18	498					
Golden to Packard	15	144	8	19	608	8,355.31	Ole Johnsen
	22	681					
Oak Crest Subdivision	18	307					
Berkley, Belmar,	15	302					
Keech and Potter	12	1,161	8	22	623	7,063.46	Ole Johnsen
Montgomery Ave. & Abbott Av.	30	593					
Murray-Washington Drain to	24	487					
Revena Blvd			5	14	382	6,373.68	R. T. Liddicoat
	24	380					
Hoover Ave.	20	475					
Allen's Creek to Brown St...	18	314					
Green St. Hoover to Keech...1927	15	310	9	13	588	6,217.09	Ole Johnsen
	20	170					
	18	653					
Pauline Blvd.	15	322					
Main St. to Hutchins Ave...1927	12	665	8	20	798	5,186.12	Ole Johnsen
Berkshire Rd.	15	575					
Geddes to Dorset	12	620			382	3,162.25	Ole Johnsen
Mosley St. First to Third							
First St. Mosley to John R...	15	82					
Third St. Mosley to John K...1927	12	1,086	5	8	328	2,688.78	Ole Johnsen

Highland R. & Lafayette Rd Ged- des to Concord	1927	12	517	5	8	228	1,474.48	Ole Johnsen
West Summit St. Lulu Ct. to Fountain St.	1927	24	224	2	4	128	1,366.70	Ole Johnsen
Fountain St. Felch St. to Hiscock ..	1927	12	413	3	5	137	1,072.85	R. T. Liddicoat
Fifth Ave. at John St.	1927	18	159	2	6	171	912.33	Ole Johnsen
Buena Vista, Washington St. S'ly..	1927	12	310	2	2	26	830.66	City of A. A.
First St. Jefferson St. S'ly.....	1927	15	225	1	2	42	585.69	Ole Johnsen
Alley, Huron to Chapin	1927	12	199	3	0	0	567.82	City of A. A.
Abbott Ave. Revena W'ly to End ..	1928	24	990	5	10	251	6,218.13	United Const.
		12	1,840					
Sunset Rd. N. Main to Spring....	1928	15	98	11	15	321	3,432.78	R. T. Liddicoat
Awixa Rd. County Drain to Lenawee	1928	15	648 96	9	14	370	2,038.76	R. T. Liddicoat
		12	393					
So. Seventh St. Madison to Pauline	1928	15	1,279	6	13	280	3,013.78	R. T. Liddicoat
Buena Vista. Murray-Wash. Drain, N'ly.	1928	12	379	4	4	42	996.54	United Const.
Monroe St. Packard E'ly.	1928	12	327	3	4	81	601.78	R. T. Liddicoat
Koch Ave. First St. to Third St..	1928	12	309	3	4	53	566.48	R. T. Liddicoat
Wilmot St. Washtenaw to Mack ..	1928	12	490	2	6	122	851.78	R. T. Liddicoat
Onondaga St. Geddes to Seneca ..	1928	12	330	2	7	135	905.53	United Const.
N. University Ave. Camden Ct. E'ly	1928	12	243	2	5	72	571.87	R. T. Liddicoat
Montgomery Ave. Abbott to Wash- ington	1928	12	300	2	2	31	700.69	United Const.
		12	513					
Rose Ave. Golden to White	1928	20	310	4	12	362	1,978.24	R. T. Liddicoat

Highland Rd. Lenawee Dr. Awixa to Concord	1928	12	498	4	5	60	1,273.75	United Const.
E. University, Packard to Monroe, Prospect, E. University to Church, Oakland-E. Univ. to Tappan	1928	36	426 574 1,766 475	1 F. T. 20M.H.	20	596	16,402.44	R. T. Liddicoat
Washington Heights, Observatory to E. End	1929	12	1,040	7	11	166	2,477.84	Central Mich.
Fourth Ave., Madison to Packard	1929	12	252 427	4	7	162	2,140.60	C. M. Knowles
Miner Street, Felch S'ly	1929	12	117	1	2	33	279.31	Central Mich.
Davis, Wilder, Hoover, Fifth, Main to Hoover	1929	12	639 1,774	13	24	607	5,786.01	Central Mich.
Vinewood Blvd., Wayne St. E'ly	1929	12	301	1	2	21	547.94	Central Mich.
Abbott and Orchards Sts., across private property	1929	24	290	2	2	29	1,438.57	C. M. Knowles
Brooklyn, Westminster, Gardner, Golden to Packard	1929	12	314 260 1,160	7	16	311	3,743.99	Central Mich.
Madison Street, Main to First, Fourth to Sixth	1929	12	664 354 879	10	15	399	9,579.50	R. T. Liddicoat
Pine Ridge, Maryfield to Drain ..	1929	12	337	6	8	123	1,136.29	Central Mich.
			1 F. T.					
			141,272	720	1,440	42,921	\$529,209.79	

SUMMARY OF CURBS AND GUTTERS IN THE CITY OF ANN ARBOR

District No.	Street and Limits	Year Built	Length	Total Cost	Amount of Contract	Cost per Foot	Contractor
1	Lawrence, Division to State	1919	1,284.7	\$ 1,000.00	\$ 963.58	\$.78	Thos. Hession
2	Oxford Rd., Geddes to Hill St.	1919	1,273.8	1,071.67	1,019.04	.84	Thos. Hession
3	Forest Ave., Willard to Hill.	1920	1,118	1,416.16	1,341.60	1.26	Thos. Hession
4	Hill St. Lincoln to Washtenaw	1920	1,080	1,417.50	1,296.00	1.31	Thos. Hession
5	Cambridge Rd., Lincoln Ave. to Baldwin Ave.	1920	1,412	1,841.37	1,694.40	1.30	Thos. Hession
6	Martin Place, Scott Alley to Wells St.	1920	997	1,244.72	1,196.40	1.24	A. F. Thompson
7	Hill, Oswego to Berkshire Rd.	1920	1,706	2,217.14	2,047.20	1.29	A. F. Thompson
8	East Univ. Ave., Hill to Oakland Ave.	1920	1,186.5	1,481.88	1,423.80	1.25	A. F. Thompson
9	Forest Ave., S. Univ. Ave. to Willard.	1920	852	1,080.00	1,022.40	1.27	Thos. Hession
10	Sixth St. Liberty St. N. to end	1921	1,008	1,248.97	1,108.80	1.24	Thos. Hession
11	Kingsley St. and Ingalls St., State to Ingalls to L'rence	1921	1,668.5	2,050.89	1,835.35	1.23	Thos. Hession
12	Olivia, Cambridge to Granger	1921	3,810	4,457.13	4,191.00	1.23	Thos. Hession
13	Baldwin, Washtenaw Ave. to Cambridge	1921	742.5	911.82	816.75	1.23	Thos. Hession

14	Ferdon, Wells to Norway Rd. 1921	475C.&G. 254C.	638.98	475.00 127.00	1.08	Sydnae Gustin & Co.
15	Dewey Ave. State to Packard 1921	2,689.5	2,916.11	2,689.50	1.08	Sydnae Gustin & Co.
16	Lincoln Ave. Hill St. to Wells 1921	3,876.3	4,183.79	3,876.30	1.08	Sydnae Gustin & Co.
17	Elm St. S. Univ. to Geddes 1921	1,360	1,542.22	1,360.00	1.13	Sydnae Gustin & Co.
18	Minerva R. Olivia to Forest 1921	771.5	806.49	771.50	1.05	Sydnae Gustin & Co.
19	McKinley Ave. Packard to White St. 1921	999	1,126.38	999.00	1.13	Sydnae Gustin & Co.
20	Prospect, Wells to E. Univ. 1921	1,870	2,042.96	1,870.00	1.09	Sydnae Gustin & Co.
21	Wells St. Forest to Olivia 1921	884	810.97	724.88	.92	Sydnae Gustin & Co.
22	Granger, Packard to Ferdon 1921	4,346.5	3,900.62	3,564.13	.90	Sydnae Gustin & Co.
23	Cambridge Rd. Baldwin Ave. to Washtenaw 1921	705	626.52	578.10	.89	Sydnae Gustin & Co.
24	Wells, Packard to Forest Ave. 1923	1,284	1,286.29	1,158.55	1.00	Michigan Constr. Co.
25	Willard St. Forest to Church. 1922	664	741.65	635.80	1.12	Michigan Constr. Co.
26	Seventh St. North Miller Ave. to Huron St. 1922	3,133	3,187.93	2,890.85	1.02	Michigan Constr. Co.
27	Seventh St. South Huron St. to Madison St. 1922	5,389	5,742.24	5,103.41	1.06	Michigan Constr. Co.
28	Forest Ave. Cambridge Rd. to Wells St. 1923	1,898	1,990.22	1,790.95	1.05	Michigan Constr. Co.
29	First St. Jefferson to William 1922	1,312	1,317.89	1,218.05	1.00	Michigan Constr. Co.
30	Third St. Washington St. to Liberty St. 1922	1,118	1,131.41	1,051.45	1.01	Michigan Constr. Co.
31	Kingsley St. Main to First St. 1922	1,069	1,093.64	1,013.98	1.02	Patrick Ryan, Jr.
32	Ashley, Miller Ave. to Felch 1922	2,126	2,159.48	2,006.75	1.01	Patrick Ryan, Jr.

33	Maynard St. William St. to Jefferson St.	1922	1,064	1,145.40	1,007.55	1.07	Patrick Ryan, Jr.
34	Crest St. Huron to End	1922	2,115	2,277.27	2,006.85	1.08	Michigan Constr. Co.
34	White St. Arch to McKinley ..	1922	706 (C. and G.) 218 (G)	915.11	780.84	1.12	Patrick Ryan, Jr.
36	Brookwood Pl. Packard St. to End	1922	1,042	1,081.37	986.45	1.04	Patrick Ryan, Jr.
37	Ingalls St. & Lawrence St. Catherine St. to Thayer St.	1922	1,095	1,127.71	1,014.90	1.03	Patrick Ryan, Jr.
38	Washington, St. Ashley St. to Ravena Blvd.	1922	8,156	8,749.36	7,707.41	1.07	Michigan Constr. Co.
39	Third St. Liberty to Mosley ..	1922	4,350	4,939.06	4,246.45	1.13	Michigan Constr. Co.
40	Wilmot, Washtenaw to Elm ..	1922	1,354	1,394.08	1,292.85	1.03	Michigan Constr. Co.
41	Murray Ave. Washington St. to Liberty St.	1922	1,433	1,645.53	1,379.55	1.15	Michigan Constr. Co.
42	Fountain, Felch to Hiscock St.	1922	662	686.32	633.00	1.04	Patrick Ryan, Jr.
43	Ann St. State to Division St..	1922	1,408	1,436.72	1,342.80	1.02	Patrick Ryan, Jr.
44	Forest Ave. Cambridge Rd. to Hill St.	1922	1,861	1,866.61	1,710.20	1.00	Michigan Constr. Co.
45	Division St. Madison to Cross.	1922	1,117	1,177.19	1,096.98	1.05	Patrick Ryan, Jr.
46	Walnut St. Geddes Ave. to S. University Ave.	1922	1,219	1,316.17	1,159.10	1.07	Michigan Constr. Co.
47	Oxford Rd. Hill to Washtenaw	1922	1,251	1,346.12	1,113.50	1.08	Michigan Constr. Co.
48	Hill St. Packard to Main St.	1922	3,735	3,802.01	3,530.60	1.02	Patrick Ryan, Jr.

49	Michigan Ave. Wells St. to E. University Ave.....	1922	1,751	1,734.53	1,665.99	.99	Patrick Ryan, Jr.
50	Wall St. Broadway to River..	1923	3,080	3,219.85	2,961.70	1.05	Frank Ryan
51	S. Division St. Cross to Hill..	1923	530	576.81	520.65	1.09	Frank Ryan
52	White St. McKinley Ave. to South End	1923	953	1,031.41	972.40	1.08	Frank Ryan
53	Onondaga, Hill to Dorset Rd.	1923	646	665.54	625.17	1.03	Frank Ryan
54	Thayer St. Ann to Catherine	1923	528	560.48	517.70	1.06	Frank Ryan
55	W. Madison St. Main to Ash- ley St.	1923	517	569.18	515.23	1.10	Frank Ryan
56	Brooks St., Miller Ave. to N. line Springhill	1923	5,498	5,936.40	5,501.84	1.08	Frank Ryan
57	Washington Hgts. Observa- tory St. to E. End	1923	2,136	2,275.04	2,112.96	1.07	Frank Ryan
58	Ingalls, Huron to Washington	1923	532	692.51	559.16	1.30	Frank Ryan
59	Ashley St. Jefferson to Mad- ison St.	1923	1,413	1,592.36	1,485.37	1.13	Frank Ryan
60	Moore, Broadway to Pontiac..	1923	945	1,040.95	903.00	1.10	Frank Ryan
61	Catherine St. Division St. to State St.	1923	1,379	1,493.22	1,398.32	1.08	Frank Ryan
62	Broadway, Swift to City Lts.	1924	8,446	9,550.03	8,625.21	1.13	Patrick Ryan
63	Eighth St. Liberty to Huron..	1924	2,702	2,797.65	2,526.48	1.04	Patrick Ryan
64	First St. Jefferson to Madison	1924	1,498	1,562.95	1,411.22	1.04	Patrick Ryan
65	Ferdon, Granger to Brooklyn..	1924	614	640.29	551.26	1.04	Patrick Ryan
66	Second St. Liberty to Mosley..	1924	4,531	4,669.89	4,294.59	.99	Patrick Ryan

67	Spring St. Miller Ave to Chubb Rd.	1924	6,924	7,001.70	6,440.81	1.01	Patrick Ryan
68	East University Ave. Oak- land Ave. to Packard St.	1924	2,157	2,286.69	2,037.23	1.06	Patrick Ryan
69	Linden, S. Univ. to Geddes.	1924	512 (C. and G.) 353 (G)	771.88	698.60	.98	Patrick Ryan
70	Brooklyn Ave. Packard St. to Ferdon Rd.	1924	3,792	3,752.90	3,521.28	.99	Patrick Ryan
71	Arbor St. State to Oakland.	1924	848	959.75	874.32	1.13	Patrick Ryan
72	Greenwood Ave. East U. Ave. to Packard St.	1925	1,670	1,961.41	1,285.71	1.17	C. H. Eldred
73	Revena Blvd. Washington to End St.	1925	3,055	2,626.29	2,319.33	.86	C. H. Eldred
74	Fourth St. Liberty to Madison	1925	3,275	2,922.87	2,609.56	.89	C. H. Eldred
75	Soule, Lutz, Maxwell and Wakefield and Elder	1925	6,147	5,369.08	4,686.63	.88	C. H. Eldred
76	Catherine St. Division to Fifth Ave.	1925	1,108	991.21	918.97	.89	C. H. Eldred
77	Chapin St. Huron to Miller.	1925	1,663	1,504.24	1,346.51	.90	C. H. Eldred
78	First St. Huron to Ann.	1925	588	560.15	471.72	.95	C. H. Eldred
79	S. Fifth Ave. Packard to Madison	1925	958	902.75	800.06	.94	C. H. Eldred
80	Elder Blvd. Bucannan to east end.	1925	1,075	1,061.39	854.05	.99	C. H. Eldred

81	First St. Madison to Mosley..1925	838	743.68	644.06	.89	Frank Ryan
82	Ashley St. Madison to Mosley1925	795	680.99	611.22	.86	C. H. Eldred
83	First St. Ann to Miller ....1925	586	561.16	452.84	.96	C. H. Eldred
84	Mosley St. Main to Third....1925	2,179	1,891.14	1,671.13	.87	C. H. Eldred
85	Wayne St. Loraine Pl. and Berkshire Road .....1925	3,343	2,823.06	2,550.02	.84	C. H. Eldred
86	Summit St. Beakes to Main..1925	2,136	1,828.54	1,668.84	.86	C. H. Eldred
87	Virginia Ave. and Charlton Ave. ....1925	4,403	3,806.01	3,415.56	.87	C. H. Eldred
88	W. Jefferson St. Main to to Seventh .....1925	4,517	4,097.40	3,504.65	.91	Frank Ryan
89	Thayer St. Huron to Ann... 1925	642	544.86	489.78	.85	C. H. Eldred
90	Pauline Blvd. Main to Fifth..1925	Cancelled				
91	Bath St. Seventh St. to End..1926	819	777.07	689.91	.95	C. H. Eldred
92	Forest Ave. Wells to Granger1926	1,761	1,660.18	1,531.95	.94	C. H. Eldred
93	Miner St. Felch to Hiscock..1926	3,043	2,680.15	2,399.52	.88	C. H. Eldred
94	McKinley Ave. White to State1926	520	692.15	646.00	1.33	C. H. Eldred
95	Felch St. Spring to Gott....1926	2,267	2,160.61	1,913.27	.95	C. H. Eldred
96	Geddes Ave. Oswego to Lts...1926	3,696	4,033.41	3,434.04	1.09	C. H. Eldred
97	S. Fifth St. Madison to Pauline .....1926	3,820	3,356.02	3,089.73	.88	C. H. Eldred
98	Cherry St. Spring to Fountain1926	732	621.34	569.46	.85	C. H. Eldred
99	Gott St. Miller to Pearl....1926	3,457	3,173.54	2,831.04	.92	C. H. Eldred
100	Fifth St. Liberty to Madison..1926	3,081	3,136.10	2,844.90	1.02	C. H. Eldred
101	W. Madison St. Ashley to Seventh .....1926	3,936	4,023.98	3,695.64	1.02	C. H. Eldred
102	Hoover Ave., Main to Fifth..1927	2,895	2,458.44	2,193.07	.85	L. W. Dailey

103	Harvard Place, Geddes N'y to End	1927	1,898	2,157.94	1,757.54	1.14	L. W. Dailey
104	Kenwood Ave. Jackson to Abbot	1927	1,165	952.23	868.09	.82	L. W. Dailey
105	Granger Ave. Packard to State	1927	3,543	3,195.34	2,921.90	.90	L. W. Dailey
106	Berkshire Rd. Dorset to Geddes	1928	2,533	2,251.71	1,942.38	.89	L. W. Dailey
107	East Washington St. 12th St. to Forest Ave.	1927	2,024	1,802.12	1,566.75	.89	L. W. Dailey
108	Baldwin Ave. Cambridge to Wells.	1927	2,455	2,183.42	1,981.38	.89	L. W. Dailey
109	Seneca Ave. Oswego to Onondaga	1927	811	694.43	596.35	.86	L. W. Dailey
110	Revena, Linda Vista, Wesley Harbrooke & Linwood	1927	8,320	6,671.22	5,947.20	.80	L. W. Dailey
111	Mack Rd. Wilmot to Elm ...	1928	724	662.16	581.50	.91	L. W. Dailey
112	Sixth St. Jefferson to Madison	1927	1,341	1,156.35	1,056.24	.87	L. W. Dailey
113	Brooklyn Ave. Ferdon to Wal- lingford	1928	2,083	2,036.78	1,745.69	.98	L. W. Dailey
114	Catherine—Glen to Clark- Clark-Catherine to Ann.	1927	1,925	1,623.37	1,459.39	.84	L. W. Dailey
115	Fountain St. Miller to Felch and Hiscock to Summit.	1927	2,329	2,073.42	1,862.24	.89	L. W. Dailey

116	Vaughn, E. Univ. to Packard	1927	1,325	1,159.52	1,036.10	.88	L. W. Dailey
117	Highland Rd. Geddes to Concord	1928	2,839	2,612.43	2,306.98	.92	L. W. Dailey
118	E. Ann 5th Ave. to Division	1927	1,166	1,163.76	958.13	1.00	L. W. Dailey
119	Pauline Blvd. Main to Fifth St.	1927	3,029	2,747.92	2,451.28	.91	L. W. Dailey
120	W. Summit St. Spring to Brooks	1927	2,705	2,450.60	2,189.09	.91	L. W. Dailey
121	Catherine St. Ingalls to Glen	1927	1,427	1,284.23	1,176.04	.90	L. W. Dailey
122	Wildwood Ave., Dexter to Harbrooke, Linwood-Wildwood to Revena	1927	3,385	2,978.33	2,576.74	.88	L. W. Dailey
123	E. Park Pl. Granger to Henry	1927	1,883	1,561.90	1,396.11		L. W. Dailey
124	Miner St. Pearl to Heusel's Prop.	1927	1,207	1,109.28	929.65	.92	L. W. Dailey
125	Brooks St. Springhill to Sunset	1928	2,108	1,767.82	1,578.14	.84	L. W. Dailey
126	Sunset Rd. Reservoir to Wildt	1929	8,646	8,582.13	7,535.33	.99	L. W. Dailey
127	Oak Crest Sub. and Oak Crest No. 1	1927	12,357	10,677.72	9,489.93	.86	L. W. Dailey
128	N. Univ. Ave. Washtenaw to Forest	1927	1,225	1,039.61	885.87	.85	L. W. Dailey
129	Hiscock St. Brooks to Daniel	1927	3,555	3,062.33	2,773.02	.86	L. W. Dailey
130	Oakland Ave. Hill St. to Arch	1927	1,470	1,491.37	1,164.33	1.01	L. W. Dailey

131	Henry St. Golden to Packard	1927	2,701	2,391.12	2,177.79	.89	L. W. Dailey
132	Vinewood Blvd. Washtenaw to Berkshire	1927	5,031	3,971.24	3,698.34	.79	L. W. Dailey
133	Buena Vista, Washington to So. End	1927	1,521	1,235.14	1,131.65	.81	L. W. Dailey
134	Berkshire Rd. Dorset to Angle	1928	2,198	1,911.22	1,687.89	.87	L. W. Dailey
135	Forest Ave. Washtenaw to Geddes	1927	699	731.77	633.90	1.05	L. W. Dailey
136	Awixa Rd. Lenawee Dr. High- land, Lafayette	1928	5,434	5,055.06	4,568.95	.93	L. W. Dailey
137	Doty Ave. Dexter to N. End.	1928	1,846	1,848.06	1,705.20	1.00	L. W. Dailey
138	Brockman Blvd. Washtenaw to Copley	1927	1,781	1,685.95	1,507.48	.95	L. W. Dailey
139	No. First Miller to Kingsley.	1927	1,272	1,331.28	1,196.37	1.05	L. W. Dailey
140	Baldwin Ave. Wells St. to Granger	1927	1,777	1,722.10	1,516.34	.97	L. W. Dailey
141	Forest Ave. East Side N. Univ. to Huron	1927	1,136	1,229.22	1,077.01	1.08	L. W. Dailey
	*Forest Ave. West Side N. Univ. to Huron	1927	830	697.80	697.80	.84	L. W. Dailey
	*Forest Ave. Geddes to N. University	1927	577	477.54	477.54	.83	L. W. Dailey
142	Brockman Blvd, Copley to Shadford	1928	1,398	1,419.89	1,234.49	1.02	L. W. Dailey

143	Baldwin Pl. Baldwin E'ly to End	1928	609	612.66	570.64	1.09	L. W. Dailey
144	Abbott Ave. Virginia to Montgomery	1928	1,450	1,339.79	1,253.00	.92	L. W. Dailey
145	Third St. Mosley to Davis..	1928	1,808	2,425.05	2,290.97	1.34	L. W. Dailey
146	Edgewood Ave. Wilder Pl., and Davis Ave.	1928	3,101	2,761.09	2,523.19	.89	L. W. Dailey
147	Woodlawn Ave. Packard to Sheehan	1928	1,827	1,792.17	1,708.61	.98	L. W. Dailey
148	Onondaga, Hill to Geddes..	1928	1,304	1,370.94	1,227.73	1.05	L. W. Dailey
149	N. Univ. Ave. Forest to Ob- servatory	1928	1,118	1,202.05	1,107.26	1.08	L. W. Dailey
150	Forest Ave. Washtenaw to S. Univ.	1928	984	1,185.10	989.43	1.19	L. W. Dailey
151	So. Seventh St. Madison to Pauline	1928	3,850	3,523.13	3,290.17	.92	L. W. Dailey
152	Morton Ave. Packard to Fer- don	1928	3,125	2,837.69	2,646.60	.91	L. W. Dailey
153	Devonshire Rd. Washtenaw E'ly.	1928	1,636 (C. and G.) 806(G.)	2,279.48	2,110.14	1.02 (C. and G.) .68(G)	L. W. Dailey
154	Montgomery Ave. Washing- ton to Charlton	1928	1,268	1,228.32	1,081.70	.97	Geo. Walterhouse
155	Pauline Blvd. Fifth St. to Seventh St.	1928	1,184	1,114.64	982.61	.94	Geo. Walterhouse

156	Rose Ave. Golden to White	1928	1,442	1,314.92	1,197.27	.91	Geo. Walterhouse
	*Concord Road, Lafayette to Highland	1928	734	626.82	587.20	.85	Geo. Walterhouse
157	White St., Granger to Rose	1929	1,090	1,172.52	1,088.60	1.08	L. W. Dailey
158	Daniel St., Summit to Charles	1929	868	1,060.71	917.68	1.22	Geo. Walterhouse
159	Vinewood Blvd., Geddes to City Limits	1929	2,387	2,862.08	2,598.76	1.20	L. W. Dailey
160	Day St., Berkshire to Wayne	1929	1,219	1,283.95	1,191.93	1.05	L. W. Dailey
161	Pine Ridge, Dexter to N. End	1929	909	1,128.32	1,048.58	1.24	L. W. Dailey
163	Melrose Ave., Devonshire to Tuomy	1929	2,014	2,509.14	2,294.86	1.25	L. W. Dailey
164	Brooklyn Ave., Packard to Golden	1929	1,704	2,212.08	2,101.12	1.30	L. W. Dailey
165	Grandview Dr., Dexter to Jackson	1929	936	1,228.08	1,140.26	1.31	Geo. Walterhouse
166	Benjamin St., Mary to Division	1929	1,272	1,699.95	1,544.69	1.34	L. W. Dailey
167	Austin Avenue, Washtenaw to Norway	1929	694	969.51	889.58	1.40	Geo. Walterhouse
168	Hoover Ave., State to A. A. R. R.	1929	2,606	3,588.79	3,314.65	1.38	L. W. Dailey
169	Sybil St., Hoover to Hill	1929	1,347	1,763.17	1,660.55	1.31	L. W. Dailey
170	Westwood Ave., Dexter to Arbor View	1929	1,992	2,290.71	2,104.68	1.15	L. W. Dailey
171	Haven Ave., Monroe to Hill	1929	832	1,117.97	1,051.94	1.34	Geo. Walterhouse

172	Gardner Ave., Packard to Westminster	1929	1,405	1,657.35	1,549.60	1.18	L. W. Dailey
173	Montclair Place, Gardner to S. End	1929	1,127	1,305.92	1,223.48	1.16	Geo. Walterhouse
174	Division St., Hill to Hoover	1929	1,437	1,764.24	1,673.15	1.23	L. W. Dailey
TOTALS			<u>366,535</u>	<u>\$364,707.47</u>	<u>\$328,760.98</u>		

*Private Contract.

SUMMARY OF SANITARY SEWERS

Dist. No.	Street	Date	Total Length of Main	No. Manholes
	Main Sewer	1893	16,915	61
1	Liberty, E. of Main Sewer	1894	2,790	9
2	Washington, E. of Main Sewer	1894	3,162	13
3	Hill St. district E. of Main Sewer ...	1895	681	1
4	Huron, E. of Main Sewer	1895	3,900	15
5	William, E. of Main Sewer	1895	2,799	14
6	Detroit	1897	300	1
7	W. Liberty, to near Seventh	1897	1,804	5
8	E. Catherine, Division to State	1900	631	
9	Ann, Huron, 13th and 14th	1901	1,370	4
10	14th and Volland	1901	1,266	3
11	First, Madison to Jefferson	1903	918	3
12	W. William	1903	1,527	4
13	Beakes, 4th Av., 5th Av., Kingsley ..	1904	4,204	8
14	N. Main, Main Sewer to Catherine ..	1905	1,393	3
15	Cambridge, Washtenaw, Vinewood, Ferdon	1905	1,487	4
16	W. Liberty extension to City Limits ..	1906	1,352	3
17	3rd, William to Jefferson	1905	602	1
18	W. Huron	1906	3,509	8
19	Church	1906	444	1
20	Miller Ave.	1906	2,224	9
21	Spring, Miller to Hiscock	1907	1,252	4
22	W. Washington and 3rd	1907	2,834	8
23	S. Division**	1906	200	
24	Geddes, Hill, and Oswego	1907	1,730	5
25	State St. and Dewey Ave.	1907	3,134	3
26	Broadway and Wall St.	1907	5,682	20
27	Second Ward	1908	11,470	24
28	Belser, Observatory, Volland	1907	2,380	4
29	Spring St. extension	1908	896	3
30	E. Catherine and Clark	1908	1,498	3
31	Fuller and Elizabeth	1907	1,080	2
32	S. Main, Mosley, Ashley	1909	3,679	8
33	Arch, White, McKinley	1909	1,458	3
34	Packard, Granger, Ferdon	1909	10,128	27
35	Second, William to Liberty	1909	321	
36	N. 5th Av. and E. Summit	1910	891	2
37	Cambridge, Washtenaw to Hill	1910	1,200	3

IN THE CITY OF ANN ARBOR

No. Flush tanks	No. Light- holes	8" Tile	10" Tile 9,150-24"	No. of House Con'tions	Length of House Con'tions	F. T. Changed to M'holes	Total Cost
0	0	6,445-15"	1,320-18"	120			\$ 41,252.83
1	4		2,555	82			3,954.44
0	2	235	2,927	97			6,831.08
1	0	681		20			27,912.80
0	6	300	3,600	33			4,303.19
0	4	345	2,454	58			8,454.98
0	0		300	5			12,587.00
0	5	1,804		66	998		1,887.84
1	1	631		22	256		527.43
2		1,370		50	988		2,163.46
1		1,266		35	630		1,541.47
1		613	305	27	508		1,169.51
0		583	344	40	678		2,083.02
7		2,706	1,498	137	2,316		5,024.40
2		1,393		69	1,444		2,322.48
2		1,487		28	707		1,735.64
1		1,352		40	726		1,265.68
1		602		19	328		590.84
1		2,942	567	102	2,066		4,111.52
1		444		22	376		574.76
1		1,737	487	57	987		2,147.27
		688	564	*32			1,070.92
2		2,834		*88			2,369.03
1		200		8	160		250.00
2		1,730		*30			1,530.50
2		2,882	242	*88			2,186.57
2		3,571	2,111	*143			4,989.01
13		3,540	1,930	*337			8,035.98
3		2,380		*39			1,895.50
1		896		*26			632.32
2		1,498		*38			1,148.36
2		1,080		*22			943.60
3		3,108	571	*98			2,229.03
2			1,458	*58			513.49
7		7,030	3,098	*376			6,300.06
1		321		*12			240.69
2		891		*27			741.30
2		1,200		*34			911.39

38	Hill, Division to Main	1910	1,320	3
39	Fuller, Glen to State	1910	1,197	3
40	Ashley, Kingsley to Ann	1910	771	2
41	Felch, Fountain, Hiscock, Chapin, & Cherry	1910	4,070	8
42	N. Main, Summit to A. A. R. R.	1911	651	2
43	4th Av. Beakes to Summit	1911	869	2
44	Depot, 4th Av. to Main	1911	335	
45	White and McKinley	1911	345	1
46	Olivia Av. and Minerva Rd.	1911	733	2
47	E. Ann, Glen to Ingalls	1911	655	1
48	Murray, Washington to Liberty	1912	724	4
49	Olivia, N. of Minerva Rd.	1912	157	
50	Myrtle, Oswego to City Limits	1912	651	1
51	Summit, Main to Spring	1914	1,295	5
52	Hiscock St., Fountain to Miner	1913	372	
53	Crest Av. and W. Washington	1914	1,774	4
54	W. Liberty, to City Limits	1913	464	1
55	Austin Av. and Washtenaw	1914	2,486	9
56	Third Ward	1914	7,186	22
57	Geddes Av., Oswego E'ly 210 ft.	1914	276	
58	W. Huron, to end of pavement	1913	75	
59	Ann St., Clark to Observatory	1913	610	1
60	Brown St., 4th Av. and Philip St.	1914	2,551	7
61	E. Catherine, Detroit, and 4th Ave.	1914	2,622	9
62	E. Catherine, Clark to 100 ft. E.	1914	101	
63	Sixth, Seventh, and Eighth Sts.	1914	3,146	12
64	Third, Fourth, and Fifth Sts.	1914	647	1
65	Packard St.	1914	428	1
66	First St., Catherine to Ann	1914	225	
67	Moore St., Broadway to Pontiac	1914	545	2
68	Seventh, Bath, and Willow Sts.	1915	4,523	21
69	Mosley St., Second to Third	1916	250	
70	West St., Main St. W'ly	1916	552	3
71	Roosevelt, Church to Forest	1916	222	
72	Hamilton, Rose, & Sheehan Add.	1917	10,297	33
	Olivia Ave., Wells St. N'ly	1915	188	
73	Eber White Add. ..	1916	1,766	10
74	Lincoln St., 4th Ave. to Main	1916	564	2
75	Hill, Onondaga, Geddes, Berkshire ..	1917	1,366	6
76	Washington St., 12th to 14th	1917	646	3
77	John K. Ave. and First St.	1916	995	4
78	Fifth St. S. of Madison	1916	882	3
79	Hiscock St., Summit to Spring	1916	1,080	6

COMMON COUNCIL—FEBRUARY 3, 1930

603

1		1,320		*40			1,037.00
1		1,197		*19			815.93
1		771		*30			667.77
6	4	3,328	742	*122			3,229.79
1		651		17	230		680.14
1		869		*31			646.55
1		335		*9			204.26
1		345		*18			247.32
1		733		*29			538.53
1		655		*28			532.71
1	1	738		27	350		1,009.62
1	1	166		8	102		301.02
1	1	668		17	370		1,795.69
1	1	1,302		*41			1,158.57
1	1	378		*14			318.41
3	3	1,798		66	1,006	1	2,432.81
1	1	472		24	382	1	1,101.54
2	2	2,494		*78			3,862.29
8	8	6,832	430	*244			7,655.78
1	1	281		6	80	1	574.29
1	1	82		3	12	1	187.06
1	1	614		*18			765.61
3	3	2,576		*93			2,902.70
4	4	2,626		73	1,326		4,863.19
1	1	104		*5			155.14
		696-C. I.					
5	5	2,372-T		88	1,330		4,658.28
		36-C. I.					
3	3	628-T		*31			750.98
		428		*11			271.75
1	1	231		*10			423.80
1	1	546		*16			634.72
6	0	3,735	788	*77			3,593.14
1	1	222		*14		1	250.63
1		504		*24			622.18
1		204		*9			204.92
9		6,014	3,661	*311			16,293.03
1	1	188		*6			150.21
2		1,670		48	1,064		2,663.82
2		524		*20			640.89
2		1,312		*27		1	2,499.17
		12-C. I.					
1	2	340-V. T. 250-15"		*22			862.93
2		923		*36			1,082.34
1		806		*38			874.80
1		1,002		*39			1,251.27

80	Seventh, Liberty to Madison	1917	1,374	6
81	Wells St., Baldwin to Ferdon	1917	368	3
82	Packard and Brooklyn	1917	3,307	11
83	Eighth St., Huron to Washington	1917	210	
84	Killin's Heights Add.	1917	5,324	14
85	Eber White and Soule Blvd.	1917	1,144	7
86	West Hoover Ave.	1918	447	4
87	Ninth St., Huron S'ly	1918	216	
88	Jackson Ave., Forks to Limits	1919	1,945	7
89	Jones and Mill Sts.	1920	530	2
90	Berkshire Rd. and Orchard St.	1920	880	4
91	E. Hoover Ave.	1920	355	1
92	Edward St.	1920	240	2
93	Seventh St., Washington to Huron ..	1919	146	1
94	Boulevard Drive	1919	1,017	5
	Dexter Ave.	1919	168	1
95	Pauline Blvd.	1920	216	1
96	Fifth Ave., South of Madison	1920	250	3
97	Day St., Cambridge to Wayne	1920	556	4
98	Soule Blvd., Maxwell to Elder	1921	494	3
99	Elder Blvd., Buchanan to Soule	1921	690	2
100	Lutz Av., Elder to Eberwhite	1921	310	2
101	Pontiac, Moore to City Limits	1921	2,589	10
102	Onondaga, Hill to Dorset	1921	359	2
103	Seventh St., Madison to Davis	1921	1,412	4
104	Day St., Wayne to Berkshire	1921	416	2
105	Morton Ave., Packard to Baldwin ..	1921	1,068	6
106	Dexter Ave., Pav't W'ly 450 ft.	1921	454	3
107	Woodlawn Av., Packard to Ingalls ..	1921	921	3
108	Sylvan Ave., Packard to White	1921	700	4
109	Dexter Ave., Extension 300 ft.	1921	300	2
110	Shadford, Packard to Baldwin	1922	794	2
111	Washington Hgts., Ob'v'tory to River	1923	2,216	10
112	Miller Ave., W. Park Sub-Main	1923	813	3
113	John St., Division to 5th Ave.	1923	464	2
114	Vinewood Blvd., Wayne to Limits ..	1923	490	2
115	Dexter Ave., 9 plus 25 to limits	1923	1,137	5
116	Charlton Ave., Virginia W'ly	1923	420	2
117	Abbott Ave., Virginia W'ly	1923	414	2
118	Krause St., Murray to Third	1923	445	2
119	Henry St., Golden to Packard	1923	2,443	8
	†Wildwood Ave., Dexter N'ly	1923	265	0
	University Relief	1923	15" 569	2
120	Davis, Wilder, Hoover, Fifth	1923	2,128	10
121	Third St., Washington to Huron	1923	248	0
122	Grand View Drive	1923	402	1

COMMON COUNCIL—FEBRUARY 3, 1930

605

		12 C. I.					
2		1,310-V. T.		*26			1,204.50
1		336		*16			485.85
2		3,073		*117			4,165.25
1		198		*6			339.01
8		4,932		*196			7,218.53
		1,082		*31			2,035.79
		415		*16			990.66
1		200		*8			309.14
1	0	1,945	0	65	1,126	1	2,401.97
1	0	530	0	*7		0	1,233.00
1	0	880	0	20		0	2,534.09
1	0	355	0	10		0	711.25
0	0	240	0	*5		0	526.37
0	0	146	0	2	2	0	303.79
0	0	1,017	0	1		0	2,215.81
0	0	168	0	2	24	0	101.00
0	0	216	0	8		1	687.71
0	0	250	0	1		0	632.99
0	0	556	0	1		0	1,609.73
1	0	466	0	14		0	1,426.88
0	0	648	0	21		0	1,629.16
0	0	284	0	13		0	890.34
1	0	2,431	0	79		1	6,672.31
0	0	347	0	6		0	957.41
0	0	1,310	0	51		1	3,545.36
0	0	390	0	13		0	989.31
0	0	1,000	0	34		0	2,336.57
0	0	430	0	12		0	1,153.58
1	0	841	0	40		0	1,516.29
1	0	646	0	27		0	1,057.81
0	0	280	0	10		0	770.84
0	0	742	0	26		0	1,557.65
1	0	1,206	1,010	26		0	3,876.70
0	0	439-12"	374	0			1,002.51
1	0	432	0	16		0	754.48
0	0	466	0	12		1	875.52
0	0	1,069	0	34			3,950.10
0	0	392	0	14			605.33
0	0	388	0	13			588.73
1	0	411	0	17			908.57
1	0	2,443	0	72		0	14,798.70
1	0						450.00
0	0	0	569-15"	0		0	4,607.69
2	0	2,128	0	56	786	0	5,949.94
1	0	248	0	4	16	0	564.60
1	0	402	0	11	106	0	1,237.94

123	Medallion St.	1923	325	0
124	Maxwell and Wakefield	1923	550	0
125	Eighth St.	1923	829	5
126	Cedar and Wright	1923	1,328	6
127	Daniel St.	1923	400	1
128	S. Seventh St.	1923	516	1
129	Washtenaw Ave.	1923	735	3
130	Spring St.	1923	1,298	5
131	Berkshire Rd.	1923	313	1
132	S. Main St.	1923	2,722	8
133	Davis Ave.	1923	275	1
134	Fifth St.	1923	300	0
135	Brooks St.	1923	277	2
136	Pauline Blvd.	1924	698	3
137	Jackson Hgts., Add.	1924	2,744	13
138	Devonshire, Melrose, Tuomy	1924	2,686	15
139	Baldwin Ave.	1924	760	4
140	Scottwood, Woodside, etc.	1924	2,504	14
141	Brockman Blvd.	1924	463	2
142	Mt. Vernon	1924	807	3
143	Hoover, Davis, Third	1924	3,160	14
144	Liberty, Washington Sub.	1924	1,613	8
145	Fairview Hgts.	1924	2,441	10
146	Wildwood Ave. Sub. S'ly.	1924	244	3
147	Westwood Hills	1924	6,488	29
	†Ravena Blvd., Huron to Linwood	1924	336	2
	†Wildwood Ave. Sub. N'ly	1924	484	3
	†Gardner Ave. and Westminster Pl.	1924	775	3
148	Berkshire, Vinewood, Day	1925	1,932	6
149	Cedar St.	1925	439	1
150	Morton Ave., Shadford Rd.	1925	1,173	6
151	Plum St.	1925	835	4
152	W. Kingsley St.	1925	191	1
153	Arbor View and Wildwood	1925	10,877	50
154	Amherst Ave.	1925	306	1
155	Pauline Blvd. and Hutchins	1925	1,588	6
156	Maiden Lane	1925	1,158	5
157	Madison and Soule Blvd.	1925	1,476	6
158	Daniel St.	1925	200	1
159	Oak Crest Sub.	1925	5,731	20
161	Ferdon and Brooklyn	1925	1,370	6
160	Traver St.	1925	2,622	13
162	Ridgeway, Harvard, Highland	1925	6,292	35
163	Brockman Blvd.	1925	832	4
164	Brooklyn Ave.	1925	801	2

COMMON COUNCIL—FEBRUARY 3, 1930

607

1	0	325	0	7	96	0	1,020.46
2	0	550	0	16	208	0	1,384.34
1	0	829	0	27	348	0	3,325.75
1	0	1,328	0	29	400	0	3,727.94
1	0	400	0	11	140	0	1,255.06
1	0	516	0	19	270	0	2,155.73
0	0	735	0	12	202	1	2,706.65
0	0	1,298	0	37	0	0	3,103.02
1	0	313	0	8	120	0	1,234.34
3	0	2,722	0	73	728	0	10,147.81
1	0	275	0	8	90	0	1,060.48
1	0	300	0	12	180	1	1,096.44
0	0	277	0	11	160	0	946.37
0	0	698	0	20	0	0	1,818.72
4	0	2,744	0	58	64	0	8,892.54
2	0	2,686	0	49	92	0	9,012.91
1	0	760	0	11	0	0	2,279.75
2	0	2,504	0	41	72	0	11,474.30
1	0	463	0	6	0	0	1,654.19
1	0	807	0	16	0	0	2,477.64
5	0	3,160	0	105	0	0	9,983.60
1	0	748	865-12"	28	0	0	4,008.62
4	0	2,441	0	66	178	0	12,921.99
1	0	244	0	6	0	0	1,099.60
7	0		430-15"				
7	0	2,706	3,352-12"	71	0	0	24,681.25
1	0	336	0	13	0	0	980.00
1	0	484	0	7	0	0	1,650.00
2	0	775	0	21	0	0	1,470.00
3	0	1,932	0	47	0	0	3,199.53
1	0	439	0	12	0	0	822.16
0	0	1,173	0	36	0	0	2,187.20
1	0	835	0	17	0	0	1,298.05
0	0	191	0	8	0	0	337.60
			585-15"				
12	0	9,399	893-12"	269	0	0	18,292.01
1	0	306	0	8	0	0	453.89
2	0	1,588	0	38	0	0	3,334.92
1	0	1,158	0	27	0	0	1,525.68
4	0	1,476	0	26	0	0	2,832.81
0	0	200	0	2	0	0	326.10
8	0	5,731	0	181	0	0	10,509.74
2	0	1,370	0	22	0	0	2,676.44
1	0	2,622	0	65	0	0	4,251.07
3	0	6,292	0	39	0	0	11,962.18
1	0	832	0	12	0	0	1,558.12
1	0	801	0	27	0	0	1,066.62

165	Keech Ave.	1925	233	2
166	Mt. Pleasant Ave.	1925	786	3
167	Pine Ridge	1925	298	3
168	Chubb Rd.	1925	842	3
169	Beechwood Dr.	1926	687	2
170	Charles, Edward, Daniel	1926	1,458	7
171	Miner St., Pearl N'ly	1927	676	3
172	Elder Blvd., Lutz Ave., Madison St.	1927	1,609	7
173	Allen Dr.	1927	652	6
174	Miner St., Felch S'ly	1927	245	1
Pvt.	Miller Ave.	1927	210	1
Pvt.	Baldwin Place	1927	253	2
	Allen Cr. San. By-Pass	1927	314	3
175	Wildt-Sunset-Brooks	1928	3,688	23
176	Longman Lane	1928	776	4
177	Arbor View-Wildwood	1928	922	4
	†Maple Ridge	1928	374	2
	†Ridgeway	1928	460	1
179	Cedar Bend Drive	1929	126	2
180	Allmand Heights	1929	3,068	12
182	Lafayette Blvd.	1929	474	4
183	Arbor View, Brierwood	1929	1,103	5
184	Allmendinger Heights	1929	10,666	43
TOTALS			306,392	1,206

*Branches only.

**District 23 never accepted by City. Above data is Engineer's app

Note:—In District No. 50 one 8-inch house connection 28 feet lon

†Private contract.

COMMON COUNCIL—FEBRUARY 3, 1930

609

0	0	233	0	8	0	0	655.44
1	0	786	0	21	0	0	1,339.37
1	0	298	0	9	0	0	766.57
0	0	842	0	18	0	0	1,932.78
1	0	687	0	14	0	0	1,492.79
2	0	1,458	0	32	0	0	2,938.54
0	0	676	0	21	0	1	1,386.85
		352-C. I.					
3	0	1,257-Vit.	0	25	0	0	4,371.72
1	0	652	0	23	0	0	1,671.44
1	0	245	0	4	0	0	795.49
0	0	210	0	3	0	0	310.00
0	0	253	0	6	0	0	635.00
0	0	314	0	0	0	0	984.50
2	0	3,688	0	72	0	0	14,557.60
1	0	776	0	23	0	0	2,176.35
1	0	300	622-12"	28	0	0	3,022.80
0	0	374	0	17	0	0	700.00
1	0	460	0		0	0	825.00
		126		1			338.19
4		3,068		98			6,332.07
1		474		7			1,630.35
2		833	270-12"	30			2,867.38
			848-18"				
			3,237-15"				
12		5,897	684-12"	199			36,436.99
<u>308</u>	<u>71</u>	<u>237,357</u>	<u>61,186</u>	<u>7,914</u>	<u>23,828</u>	<u>16</u>	<u>\$620,592.47</u>

roximate estimate.

g is included in above table.

Annual Report

of the

Street Commissioner

1929

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

Gentlemen:

We submit herewith a detailed account of the receipts and expenditures of the Street Department of the Department of Public Works for the year of 1929.

The total expenditures of the department for the year 1929 were considerably more than for the year of 1928. This is due to the fact that over \$20,000.00 more was spent for general pavement repair and approximately \$7,000.00 for snow removal. The year of 1929 experienced two unusual snow storms, one in January and one in December. The cost of cleaning paved streets has increased. This is due to more pavements being built and naturally it will cost more to clean the paved streets as

the yardage of pavement increases.

The cost of the balance of the activities of the department run about the same as they did during the year of 1928. The cost of the new City garage has not been included in the expenditures of the Street Department, although the money for the construction of this garage was raised in the Street Department budget. It is not a proper charge against the Street Department, the Municipal Garage being run as a separate institution. Detailed account of the cost of this building to date will be found in the report of the Engineering Department.

This report is respectfully submitted for your consideration.

GEO. H. SANDENBURGH,
City Engineer.
ALFRED J. PAUL,
Street Commissioner.

	Labor	Material	Total
1. ADMINISTRATION			
1 . Administration	\$ 3,000.00	\$ 6.07	\$ 3,006.07
1A. Accounts	334.56	.25	334.81
1B. Records	287.64	0.00	287.64
1C. Correspondence	240.60	1.25	241.85
1E. Information to the Public	217.20	0.00	217.20
1F. Information received	0.00	.10	.10
1G. Conventions and society meetings	0.00	151.12	151.12
1H. Office supplies	0.00	58.99	58.99
1J. Office equipment	0.00	12.75	12.75
	<u>\$ 4,080.00</u>	<u>\$ 230.53</u>	<u>\$ 4,310.53</u>
2. CLEANING PAVED STREETS			
2A. Sweeper operator	\$ 1,173.20	\$ 6.50	\$ 1,179.70
2B. Sweeper maintenance and repair	321.10	926.11	1,247.21
2C. Pickup brooms	285.60	520.61	806.21
2D. Gutter brooms	79.80	99.38	179.18
2E. Hauling Sweepings	675.08	0.00	675.08
2F. White Wings	187.03	11.50	198.53
2G. Spring Cleanup of Pave- ments	605.33	0.00	605.33
2H. Picking up and Hauling leaves	636.71	11.35	648.06
2I. Cleaning alleys	99.03	0.00	99.03
	<u>\$ 4,062.88</u>	<u>\$ 1,575.45</u>	<u>\$ 5,638.33</u>
3. FLUSHING PAVED STREETS			
3A. Flusher operator	\$ 930.00	\$ 0.00	930.00
3B. Flusher maintenance and repair	115.00	994.17	1,109.17
3C. Water	0.00	478.33	478.33
	<u>\$ 1,045.00</u>	<u>\$ 1,472.50</u>	<u>\$ 2,517.50</u>
4. STREET MAINTENANCE			
4A. Graders and Drags	\$ 2,507.70	\$ 221.71	\$ 2,729.41
4B. Cinders	1,086.26	293.50	1,379.76
4C. Gravel	1,362.10	6,244.60	7,606.70
4D. Cleaning Gutters	1,788.03	0.00	1,788.03
4E. Scarifying and rolling	0.00	200.10	200.10
4F. Steam roller, maintenance and repair	5.40	2.00	7.40
4G. Mowing weeds	908.60	9.95	918.55
4H. Filling	0.00	5.00	5.00
4I. Regrading curb and guttered streets	1,394.72	78.64	1,473.36
4J. Gravelling curb and gutter- ed streets	874.60	1,510.00	2,384.60
4K. General maintenance	961.36	176.08	1,137.44
4M. Guard rail	0.00	7.35	7.35
	<u>\$10,888.77</u>	<u>\$ 8,748.93</u>	<u>\$19,637.70</u>

5. SNOW REMOVAL

5A. Snow removal from streets	\$ 6369.59	\$ 1,018.00	\$ 7,387.59
5B. Snow removal from walks	1,488.58	0.00	1,488.58
5C. Sanding streets	392.54	154.00	546.54
	<u>\$ 8,250.71</u>	<u>\$ 1,172.00</u>	<u>\$ 9,422.71</u>

6. NEW STREET CONSTRUCTION

6A. Grading	\$ 1,174.35	\$ 127.60	\$ 1,301.95
6C. Paving, curb and gutter	301.90	69.15	371.05
	<u>\$ 1,476.25</u>	<u>\$ 196.75</u>	<u>\$ 1,673.00</u>

7. SIDEWALKS

7A. Grading for sidewalks	\$ 2,092.29	\$ 0.00	\$ 2,092.29
7B. Construction of sidewalks .	0.00	319.03	319.03
7C. Extension walks	384.15	1,373.87	1,758.02
	<u>\$ 2,476.44</u>	<u>\$ 1,692.90</u>	<u>\$ 4,169.34</u>

8. CROSSWALKS

8A. New construction	\$ 1,544.63	\$ 181.85	\$ 1,726.48
8B. Repairs to crosswalks	31.90	.30	32.20
8C. Cleaning crosswalks	1,724.55	0.00	1,724.55
	<u>\$ 3,301.08</u>	<u>\$ 182.15</u>	<u>\$ 3,483.23</u>

9. STORM SEWER

9. Storm Sewer	\$ 0.00	\$ 238.24	\$ 238.24
9A. New construction	56.90	303.71	360.61
9B. Maintenance and repair and cleaning inlets ..	1,612.26	129.57	1,741.83
9C. Repairing culverts	56.70	164.16	220.86
	<u>\$ 1,725.86</u>	<u>\$ 835.68</u>	<u>\$ 2,561.54</u>

10. STREET SIGNS

10A. New signs	\$ 0.00	\$ 1,225.46	\$ 1,225.46
10B. Maintenance and repair ..	148.78	0.00	148.78
10C. Traffic lights	1.20	36.45	37.65
	<u>\$ 149.98</u>	<u>\$ 1,261.91</u>	<u>\$ 1,411.89</u>

11. LAYING DUST

11A. Calcium Chloride.....	\$ 666.65	\$16,309.02	\$16,975.67
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12. PAVEMENT REPAIR

12A. Repairing cuts	\$ 3,027.40	\$ 2,149.81	\$ 5,177.21
12B. General repair	612.46	23,823.97	24,436.43
12C. Resurfacing with Tarvia	1,610.02	4,107.41	5,717.43
12D. Curb and gutter maint. ..	0.00	928.57	928.57
	<u>\$ 5,249.88</u>	<u>\$31,009.76</u>	<u>\$36,259.64</u>

13. MOTOR EQUIPMENT

13A.	Grader No. 1	\$ 0.00	138.99	138.99
13B.	Grader No. 2	0.00	3,489.16	3,489.16
13C.	Ford Pickup No. 4	0.00	322.10	322.10
13D.	Transport Truck No. 5	174.80	837.71	1,012.51
13E.	Dodge Truck No. 6	39.60	2,836.22	2,875.82
13F.	Transport Truck No. 7	114.95	1,043.84	1,158.79
13G.	Dodge Truck No. 9	10.40	515.82	526.22
13H.	Ford Tractor	0.00	2.28	2.28
13I.	Concrete Mixer	0.00	636.80	636.80
13K.	Grader No. 3	11.00	584.41	595.41
13L.	Grader No. 4	22.80	1,327.09	1,349.89
		\$ 373.55	\$ 11,734.42	\$ 12,107.97

14. MISCELLANEOUS

14A.	Barricades and red lights \$	1.50	\$ 132.51	\$ 134.01
14B.	Small Tools and Supplies	0.00	100.45	100.45
		\$ 1.50	\$ 232.96	\$ 234.46

15. CITY TEAM

15A.	Feed	\$ 10.65	\$ 314.46	\$ 325.11
15B.	Shoeing	0.00	161.15	161.15
15C.	Harness	0.00	84.83	84.83
15D.	Wagon	0.00	5.50	5.50
15E.	General maintenance	0.00	30.60	30.60
		\$ 10.65	\$ 596.54	\$ 607.19

16. WORK FOR OTHER DEPARTMENTS

16A.	Engineering Department \$	113.70	\$ 21.60	\$ 135.30
16E.	Poor Department	36.74	0.00	36.74
16F.	Municipal Garage	13.56	0.00	13.56
16G.	Cemetery	141.82	0.00	141.82
16J.	Contractors and Public Service Corp.	577.62	0.00	577.62
16K.	General City Work	6.40	0.00	6.40
16L.	Voting Places	7.80	2.75	10.55
16M.	Day Nursery	0.00	44.17	44.17
		\$ 897.64	\$ 68.52	\$ 966.16

17. CITY YARD MAINTENANCE AND REPAIR

17A.	Old Yard	\$ 0.00	\$ 42.11	\$ 42.11
17B.	New Yard	1,281.21	1,115.81	2,397.02
		\$ 1,281.21	\$ 1,157.92	\$ 2,439.13

18. CITY HALL MAINTENANCE

18A.	Taking ashes away from City Hall	\$ 6.20	\$ 0.00	\$ 6.20
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20. CONSTRUCTION SUPPLIES

20.	Construction supplies	\$ 8.80	\$ 1,294.38	\$ 1,303.18
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21. BRIDGE MAINTENANCE

21A. Broadway Bridge	\$ 5.70	\$ 0.00	\$ 5.70
21B. Broadway Bridge over M. C. R. R.	4.90	0.00	4.90
	<u>\$ 10.60</u>	<u>\$ 0.00</u>	<u>\$ 10.60</u>
Total Expenditures	\$45,963.65	\$79,772.32	\$125,735.97

SUMMARY

Total Labor	\$ 45,963.65
Total Material	79,772.32
Gross Expenditures	<u>\$125,735.97</u>

ITEMIZED STATEMENT OF EXPENDITURES

Administration

Superintendence	\$ 3,006.07	
Accounts	334.81	
Records	287.64	
Correspondence	241.85	
Information to the public	217.20	
Information received .....	.10	
Conventions and Society meetings	151.12	
Office supplies	58.99	
Office equipment	12.75	
Automobile maintenance and repair	322.10	
	<u> </u>	\$ 4,632.63

Cleaning Paved Streets

Sweeper operator	\$ 1,179.70	
Sweeper maintenance and repair	1,247.21	
Pickup Brooms	806.21	
Gutter Brooms	179.18	
Hauling sweepings	863.36	
White Wings	210.17	
Spring cleanup of pavements	666.96	
Picking up and hauling leaves	756.33	
Cleaning alleys	102.32	
Total sweeping	<u>6,011.44</u>	
Flusher operator	930.00	
Flusher maintenance and repair	1,109.17	
Water	478.33	
Total cleaning paved streets	<u>\$ 2,517.50</u>	8,528.94

Street Maintenance

Graders and drags	\$ 5,107.86
Cinders	1,709.56
Gravel	8,272.02
Cleaning gutters	1,837.48
Scarifying and rolling	200.10
Steam roller, maintenance and repair	7.40

Mowing weeds	918.55	
Filling	5.00	
Regrading curb and guttered streets	1,549.35	
Gravelling curb and guttered streets	2,768.45	
General maintenance	1,323.51	
Guard rail	7.35	
	<hr/>	
Total Street Maintenance		23,706.63

Snow Removal

Snow removal from streets	\$ 7,880.60	
Snow removal from walks	1,528.29	
Sanding streets	662.99	
	<hr/>	
Total snow removal		10,071.88

New Street Construction

Grading	\$ 1,328.45	
Paving, curb and gutter	379.12	
	<hr/>	
Total new street construction		1,707.57

Sidewalks

Grading for sidewalks	\$ 2,206.35	
Construction of sidewalks	319.03	
Extension walks	2,054.90	
	<hr/>	
Total sidewalks		4,580.28

Crosswalks

New construction	\$ 1,953.05	
Repairs to crosswalks	41.75	
Cleaning crosswalks	1,724.55	
	<hr/>	
Total crosswalks		3,719.35

Storm Sewer

Storm sewer	\$ 238.24	
New construction	360.61	
Maintenance and repair and cleaning inlets	1,863.53	
Repairing culverts	220.86	
	<hr/>	
Total storm sewer		2,683.24

Street Signs

New signs	\$ 1,225.46	
Maintenance and repair	158.11	
Traffic lights	37.65	
	<hr/>	
Total street signs		1,421.22

Laying Dust

Calcium Chloride	\$17,159.27	
	<hr/>	
Total laying dust		17,159.27

Pavement Repair

Repairing cuts	\$ 6,270.81	
General repair	24,532.31	
Resurfacing with Tarvia	5,908.43	
Curb and gutter maintenance	928.57	
	<hr/>	
Total pavement repair		37,640.12

Motor Equipment

New Grader No. 2	\$ 3,195.00	
New Dodge Truck No. 6	2,265.00	
New Concrete Mixer	600.00	
	<hr/>	
Total motor equipment		6,060.00

Miscellaneous

Barricades and red lights	\$ 134.01	
Small tools and supplies	100.45	
	<hr/>	
Total miscellaneous		234.46

Work for Other Departments

Engineering Department	\$ 151.74	
Poor Department	51.51	
Municipal Garage	14.08	
Cemetery	152.45	
Contractors and Public Service Corp.	595.34	
General City Work	7.28	
Voting places	10.55	
Day Nursery	44.17	
	<hr/>	
Total work for other departments		1,027.12

City Yard Maintenance and Repair

Old Yard	\$ 42.11	
New Yard	2,503.47	
	<hr/>	
Total City Yard maintenance and repair		2,545.58

City Hall Maintenance

Taking ashes from City Hall	\$ 6.20	
	<hr/>	
Total City Hall maintenance		6.20

Bridge Maintenance

Broadway Bridge	\$ 6.36	
Broadway Bridge over M. C. R. R.	5.12	
	<hr/>	
Total bridge maintenance		11.48
Total Expenditures		\$125,735.97

RECEIPTS

4.	Street Maintenance		
	4B.	Cinders	\$ 11.40
	4G.	Mowing weeds	6.00
			<hr/>
			\$ 17.40
7.	Sidewalks		
	7B.	Construction of sidewalks	\$ 291.13
	7C.	Extension walks	17.45
			<hr/>
			308.58
8.	Crosswalks		
	8A.	New construction	\$ 45.00
	8B.	Repairs to crosswalks	231.35
			<hr/>
			276.35
9.	Storm Sewer		
	9B.	Maintenance and repair and cleaning inlets	32.80
11.	Laying Dust		
	11A.	Calcium Chloride	517.16
12.	Pavement Repair		
	12A.	Repairing cuts	7,684.16
	12B.	General repair	11,276.14
			<hr/>
			18,960.30
14.	Miscellaneous		
	14C.	Disposal of old machinery and junk	247.48
15.	City Team		
	15C.	Harness	20.00
16.	Work for Other Departments		
	16A.	Engineering Department	\$ 546.40
	16B.	Water Department	2.40
	16E.	Poor Department	61.00
	16F.	Municipal Garage	2.40
	16G.	Cemetery	10.60
	16H.	Street lighting	30.00
	16J.	Contractors and Public Service Corp.	1,095.35
	16K.	General City Work	6.40
	16L.	Voting places	10.55
	16M.	Day Nursery	44.17
			<hr/>
			1,809.27

17.	City Yard Maintenance and Repair	
	17B. New Yard	240.00
18.	City Hall Maintenance	
	18A. Taking ashes from City Hall	30.10
20.	Construction Supplies	
	20. Construction supplies	85.30

SUMMARY

Total amount of expenditures	\$125,735.97
Receipts	22,544.74
	<hr/>
Net expenditures	\$103,191.23

CLASSIFICATION OF EXPENDITURES FOR LABOR DURING 1929

	Adminis- tration	Clerical	Labor	Total
A. J. Paul	\$3,000.00			\$ 3,000.00
Edna Spiegelberg		\$1,080.00		1,080.00
L. G. Bird			\$ 2,027.20	2,027.20
Carl Rehberg			1,650.00	1,650.00
Fred Hanselman			1,609.03	1,609.03
Fred Ulrich			1,527.03	1,527.03
Wm. Keppler			1,522.38	1,522.38
James Mason			1,507.28	1,507.28
Geo. Menice			1,477.50	1,477.50
Otto Blaess			1,473.30	1,473.30
Arthur Raus			1,452.90	1,452.90
John Shanahan			1,438.80	1,438.80
Otto Schantz			1,435.80	1,435.80
Camdem Dempsey			1,430.40	1,430.40
Herman Stoll			1,397.10	1,397.10
John Weber			1,350.00	1,350.00
Ike Warner			1,276.95	1,276.95
Christ Paul			1,205.10	1,205.10
Jacob Young			1,188.00	1,188.00
Sam Burke			1,124.50	1,124.50
Micheal Morhardt			1,121.25	1,121.25
Wm. Wayman			1,068.50	1,068.50
Sam. Lutz			1,012.25	1,012.25
Adolph Finkbeiner			788.60	788.60
Theodore Stollsteimer			761.85	761.85
Fred Mack			748.75	748.75
Em. Holzapfel			747.00	747.00
Fred Mahlke			728.30	728.30
Philip Adam			635.20	635.20
Robert Miller			496.25	496.25
Ed. Schweikert			475.20	475.20
August Behringer			453.50	453.50
Stanley Matthews			407.50	407.50
Fred Wagner			415.00	415.00
Sam Kalmbach			403.50	403.50
Wilbur Elsifor			361.25	361.25
Wm. Stratos			360.00	360.00

Christ Pfau	333.80	333.80
Carl Seeger	293.60	293.60
Ann Arbor Construction Co..	272.00	272.00
Otto Koch	252.50	252.50
Robert Paul	228.68	228.68
C. J. Snyder & Son	200.00	200.00
Clyde Meabon	184.25	184.25
Tim McCarthy	179.00	179.00
Arthur Heiber	175.00	175.00
John Hall	181.25	181.25
Weinberg & Kurtz	172.50	172.50
Gus Godris	153.75	153.75
Russel Court	120.00	120.00
S. J. Wallace	117.50	117.50
Geo. Stratos	108.75	108.75
Ray Schief	107.50	107.50
Newton Beach	92.50	92.50
Glen Bucholz	90.00	90.00
Pearl Campbell	89.40	89.40
Fred Bierman	87.50	87.50
John Moore	87.00	87.00
Malon Curtiss	60.00	60.00
Geo. Pulsifer	50.00	50.00
Louis Pelkey	50.00	50.00
J. McIntosh	44.10	44.10
John Strieter	43.50	43.50
Ed. Roehm	40.00	40.00
John Dubolski	34.80	34.80
J. A. Boyd	33.20	33.20
Geo. Nunn	33.20	33.20
Art Washousen	33.20	33.20
W. Pine	32.40	32.40
Emil Schallhorn	32.00	32.00
A. H. Welch	31.60	31.60
John Sindlinger	30.80	30.80
Luy Mullison	30.00	30.00
Artificial Ice Co.	29.00	29.00
Geo. Carr	26.80	26.80
Harold Carr	23.60	23.60
H. Cooperman	23.60	23.60
Ed. Blumhardt	23.20	23.20
Henry Kelley	23.20	23.20
N. McBride	23.20	23.20
Harold Welch	22.40	22.40
C. J. Kniffen	22.40	22.40
Chas. Raab	20.80	20.80
Robert Stoll	19.60	19.60
Chas. Youngbauer	19.20	19.20
Geo. Bement	19.20	19.20
C. Coughlin	19.20	19.20
Chas. Kiewelling	18.00	18.00
Homer Voorheis	17.60	17.60
H. Davis	17.20	17.20
Arthur Jones	16.00	16.00
E. Lilly	15.60	15.60
Chas. Konovoli	15.60	15.60
Chas. Rice	15.60	15.60
Ray Jones	14.00	14.00
Roy Jones'	14.00	14.00

Al. Bruce	12.40	12.40
Julius Wahr	12.40	12.40
Garnet Bressman	12.40	12.40
A. Jones	11.20	11.20
Wilfred Graf	11.20	11.20
E. Tiplady	10.80	10.80
John Foulk	10.80	10.80
Fred Burch	9.20	9.20
Fred Decker	8.80	8.80
John Fitzgerald	8.40	8.40
John Busch	8.40	8.40
Roy Lohsee	8.00	8.00
Connie Jouwatra	8.00	8.00
R. Hollister	7.60	7.60
Geo. Royce	7.60	7.60
Jerry Richard	7.20	7.20
Chas. Rice	7.00	7.00
Chas. Price	6.40	6.40
Wm. Alber	6.40	6.40
Douglas Hammial	6.40	6.40
Joseph Higgins	6.00	6.00
J. E. Marshall	4.80	4.80
Harold Richard	4.80	4.80
Raymond Cimmy	4.80	4.80
O. Pratt	4.80	4.80
Lester Schneider	3.20	3.20
August Bender	3.20	3.20
Emil Hoppe	3.20	3.20
T. E. Riley	3.20	3.20
Harold Horning	3.20	3.20
Walter Marlowka	2.80	2.80
Geo. Fehrenbach	2.40	2.40
Roy Wise	1.60	1.60
Melvin Tyler	1.60	1.60
Ben Woodward	1.60	1.60
Percy Campbell	1.60	1.60
D. C. Hanny	1.60	1.60
Ed. Hoppe	1.60	1.60
Virgil Plants	1.60	1.60
V. A. Pate	1.60	1.60
D. W. Webster	1.60	1.60

\$3,000.00 \$1,080.00 \$41,883.65 \$45,963.65

**COST OF OPERATION OF
MOTOR EQUIPMENT**

Ford No. 4

666 gallons gas	\$ 108.18
79 quarts oil	14.22
19 quarts anti-freeze	5.60
Maintenance and repair ..	173.98
Insurance	10.60

Total operating cost \$ 312.58

Miles traveled	8,692
Miles per gallon gas	13.05
Miles per quart oil	110.08
Operating cost per mile ..	.036

Transport Truck No. 5

2080 gallons gas	\$ 324.21
141 quarts oil	25.38
26 quarts anti-freeze	10.40
Maintenance and repair ..	610.12
Insurance	5.63

Total operating cost\$ 975.74

Miles traveled	11,576
Miles per gallon gas	5.56
Miles per quart oil	82.09
Operating cost per mile ..\$	.084

Old Transport Truck No. 6

588 gallons gas	\$ 86.48
54 quarts oil	9.72
Maintenance and repair ..	124.08

Total operating cost	\$ 220.28
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New Dodge Truck No. 6

1223 gallons gas	\$ 199.42
90 quarts oil	16.20
18 quarts anti-freeze	7.20
Maintenance and repair ..	91.51

Total operating cost	\$ 314.33
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Miles traveled	7,517
Miles per gal. gas	6.15
Miles per quart oil	83.52
Operating cost per mile ..\$.042

Transport Truck No. 7

2381 gallons gas	\$ 374.21
67 quarts oil	12.06
26 quarts anti-freeze	10.40
Maintenance and repair ..	710.86
Insurance	5.63

Total operating cost	\$1,113.16
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Miles traveled	11,116
Miles per gallon gas	4.67
Miles per quart oil	165.91
Operating cost per mile ...\$.10

Dodge Truck No. 9

1658 gallons gas	\$ 259.02
159 quarts oil	28.62
Maintenance and repair ..	192.71
Insurance	45.63

Total operating cost	\$ 525.98
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Miles traveled	12,414
Miles per gallon gas	7.49
Miles per quart oil	78.07
Operating cost per mile ..\$.042

Grader No. 1

526 gallons gas	\$ 77.19
36 quarts oil	6.48
4 quarts anti-freeze60
Maintenance and repair ..	25.15

Total operating cost	\$ 109.42
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Grader No. 2

1449 gallons gas	\$ 236.41
45 quarts oil	8.10
36 quarts anti-freeze	14.40
Maintenance and repair ..	72.28

Total operating cost	\$ 331.19
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Grader No. 3

1189 gallons gas	\$ 179.86
67 quarts oil	12.06
4 quarts alcohol60
Maintenance and repair ..	120.09

Total operating cost	\$ 312.61
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Grader No. 4

2472 gallons gas	\$ 387.29
80 quarts oil	14.40
40 quarts anti-freeze	15.00
Maintenance and repair ..	606.63

Total operating cost	\$1,023.32
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Sweeper

1668 gallons gas	\$ 259.92
113 quarts oil	20.34
Maintenance and repair ..	975.61

Total operating cost	\$1,255.87
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Miles traveled	4,814
Miles per gallon gas	2.886
Miles per quart oil	42.60
Operating cost per mile ..\$.263

Flusher

2809 gallons gas	\$ 439.89
253 quarts oil	45.54
Maintenance and repair ..	1,112.30

Total operating cost	\$1,597.73
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New Mixer

69 gallons gas	\$ 10.89
Maintenance and repair ..	6.80

Total operating cost	\$ 17.69
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Old Mixer

74 gallons gas	\$ 11.73
3 quarts oil54
Maintenance and repair ..	3.00

Total operating cost	\$ 15.27
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Old Centrifugal Pump		Ejector Station	
Repair	\$ 29.40	32 quarts oil	\$ 5.94
Total cost	\$ 29.40	8 quarts alcohol	1.50
New Dodge Pump		Maintenance and repair ..	87.90
Fitting to motor	\$ 28.50		
Total operating cost	\$ 28.50	Total operating cost	\$ 95.34

INVENTORY, JANUARY 1, 1930

Motor Equipment

1 2 Yd. Graham Dodge Truck	\$ 2,000.00	
2 2 Yd. Transport Trucks	1,500.00	
1 2 Yd. Graham Dodge Truck	1,500.00	
1 Ford Pickup Truck	150.00	
1 Elgin Sweeper	2,300.00	
1 Street Flusher	2,000.00	
1 H. P. Grader	300.00	
1 10-20 Austin Grader	1,500.00	
1 Ford Tractor	100.00	
1 Springfield Steam Roller	1,000.00	
1 10-20 Austin Grader, Dual Drive	3,000.00	\$15,350.00

Concrete Mixers

1 5 Ft. Smith Cement Mixer	\$ 500.00	
1 5 Ft. Concrete Mixer	100.00	600.00

Street Maintenance Equipment and Supplies

1 Austin Oil Spreader	\$ 250.00	
2 Austin Western Graders	150.00	
2 Tar Wagons	100.00	
1 Tar Heater	50.00	
1 Littleford Tar Heater	200.00	
3 Slip Scrapers	15.00	
4 Fresno Scrapers	40.00	
1 5 Ft. Fresno Scraper	10.00	
2 Knowles Scrapers	2.00	
2 Calcium Chloride Spreaders	25.00	
2 Road Drags	15.00	
2 Storage Tanks for Tar and Boiler for Heating	1,000.00	
2 Board Scrapers	10.00	1,867.00

Snow Removal Equipment

10 Steel Snow Plows for Sidewalks.....	250.00	
2 Standard Snow Plows	40.00	
2 Wooden Plows	5.00	
2 High Speed Snow Plows	500.00	
5 Doz. Snow Shovels	60.00	
1 Doz. Snow Pushers	8.00	863.00

City Team Equipment and Supplies

1 Team Horses	\$ 300.00	
1 Set Double Harness	70.00	
2 Halters	1.00	
2 Stable Blankets	1.00	
2 Woolen Blankets	10.00	
3 Tons of Hay	45.00	
80 Bu. Oats	50.00	
1 Troy Dump Wagon	75.00	
1 Wagon with Wood Box	30.00	
1 Pair of Bob Sleighs	10.00	592.00

Sweeper Equipment and Supplies

1 Broom Filler	\$ 40.00	
900 Lbs. Wire Fibre for Gutter Broom.....	180.00	
400 Lbs. Broom Fibre	34.00	
3 Finished Brooms for Street Sweeper.....	60.00	314.00

Pumps

1 Rotary Gas Pump with Hose.....	\$ 100.00	
1 Barnes Double Plunger Gas Pump with Hose..	150.00	
1 Diaphragm Hand Pump	15.00	265.00

Miscellaneous

1 Hose Nozzle	\$ 1.00	
4 Stone Forks	3.00	
14 Picks	14.00	
6 Wide Shovels	7.00	
6 Barley Forks	6.00	
6 Brick Hammers	6.00	
4 Wheel Barrows	30.00	
1 Caldron Kettle	10.00	
1 Caldron Kettle	5.00	
4 Log Chains	10.00	
1 R. R. Chain	8.00	
3 Sledge Hammers	3.00	
1 Stencil Alphabet	1.00	
4 Oil Cans	3.00	
Sewer Jacks	20.00	
4 Axes	4.00	
1 Cross Cut Saw	3.00	
2 3 Lb. Hammers	2.00	
1 Hatchet	1.00	
3 Wedges	1.00	
1 Brace and Bit	3.00	
2 Levels	6.00	

4 Scythes	5.00	
30 Red Lights	30.00	
15 Torches	30.00	
1 Hedge Scythe	2.00	
4 Tampers	4.00	
1 Hand Saw	1.00	
1 Scoop Shovel	1.00	
4 Crow Bar	4.00	
2 Rain Coats	5.00	
1 Wagon Jack	1.00	
1 R. R. Jack	3.00	
2 Barn Forks	2.00	
1 Pliver Plow	5.00	
1 64-A. Wiard Plow	10.00	
1 65-A. Wiard Plow	10.00	
1 Grind Stone	10.00	
1 50-Gal. Oil Can	10.00	
1 Stove at City Yard	2.00	
1 Platform Scale	200.00	
2 Tool Boxes on Wheels	30.00	
150 Ft. Hose	10.00	522.00

Building Material and Supplies

550 Wire Cut Lug Brick	\$ 27.50	
350 Crosswalk Brick (Seconds)	14.00	
15,000 Old Paving Brick	300.00	
Lumber, 2x4-2x6, and Planking	20.00	
11 20" Sewer Tile	27.50	
18 24" Sewer Tile	58.32	
48 15" Sewer Tile	107.16	
15 18" Sewer Tile	32.25	
5 Bbls. Tarvia B.	10.00	
2 Bbls. Creosote	15.00	611.73
Total Inventory		<u>\$20,984.73</u>

By Ald. Lutz :

Resolved, that the annual report of the Board of Public Works, consisting of annual reports of City Engineer and Street Commissioner, be received and printed in the minutes.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Severance, Freeman, Fisher, Lutz, Pres. Myers, 12. Nays, none.

Motions and Resolutions

Moved by Ald. Lutz that City Clerk be instructed to have mimeographed a sufficient numbers of copies of the report of A. E. Duncan and Company, auditors, under date of June 13, 1929, so that a copy of same may be presented to each member of Council and heads of all departments before meeting of the Committee of the Whole.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Severance, Freeman, Fisher, Lutz, Pres. Myers, 12. Nays, none.
By Alderman Sauer:

RESOLVED, By the Common Council of the City of Ann Arbor that the time wherein the Treasur-

er of the City of Ann Arbor should make his return to the County Treasurer of the County of Washtenaw for the taxes assessed for the year 1929 be and the same is hereby extended to and including the 28th day of February, 1930.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Severance, Freeman, Fisher, Lutz, Pres. Myers, 12. Nays, none.

Ald. Fisher spoke relative to the effects of gas which is used in the disposing of dogs in the basement.

Moved by Ald. Lutz that matter of gas be referred to Chairman of Budget Committee with power to act.

Adopted by the following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Bradley, Kurth, Severance, Freeman, Fisher, Lutz, Pres. Myers, 12. Nays, none.

President Myers stated that there would be a meeting of the Committee of the Whole on Monday, February 10, 1930, at 7:30 o'clock P. M.

On motion of Ald. Harris, Council adjourned.

FRED C. PERRY,
City Clerk.