

Council Chamber, Ann Arbor, Mich., Feb. 2, 1920. Regular Session.

Meeting called to order by City Clerk, and on motion, Ald. Lutz chosen to preside pro-tem. Present: Ald. Sugden, Mayer, Prochnow, Henderson, Donnelly, Spathelf, MacGregor, Lutz, 8. Absent: Ald. Heusel, Ehnis, Moore, Freeman, Reichert, Pres. Lewis 6. Minutes of previous meeting approved.

COMMUNICATIONS.

From Board of Public Works.

City Engineer presented plan for municipal garage.

Moved by Mr. Hutzel, that plan be approved and recommended to Council.

(Council action)

Moved by Ald. Donnelly, that plan be concurred in and Board requested to prepare estimate of cost. Adopted.

Ann Arbor, Mich., Feb. 2, 1920.

To the Honorable, the Common Council, Gentlemen: Your Fire Commissioners have had the matter of compensation of employees of Fire Department under consideration and would respectfully recommend that provided an increase is granted to the members of the Police Dept. that a similar increase be granted to the members of the Fire Dept.

Respectfully submitted, Board of Fire Commissioners, Sid W. Millard, Chairman.

Moved by Ald. Prochnow, that matter be referred to Fire and Finance committees to report back at next meeting. Adopted.

Communication from the Public Health Nursing association, requesting annual appropriation of \$200.00 received and referred to Finance Committee.

Committee Reports.

Finance Report.

Contingent Fund

Ernst M. Wurster, salary	\$ 41.66
I. G. Reynolds, salary	166.66
Ross Granger, salary	166.66
Herbert W. Crippen, salary	166.66
Geo. H. Sandenburgh	200.00
Alfred J. Paul, salary	150.00
Frank B. DeVine, salary	125.00
John A. Wessinger, salary	100.00
Julius Lohrke, salary	100.00
R. T. Caughey, salary	80.00
Marcia M. Minnis, salary	85.00
T. P. Stowe, salary	85.00
Hazel M. Woodward, salary	75.00
Douglas Bycraft, salary	80.00
M. E. Easterly, salary	75.00
Ned R. Smith, salary	50.00

Edwin Ganzhorn, salary	50.00
M. C. Ryan, salary, ½ month ..	58.91

Total salaries Jan.\$1855.55
Engineer Dept.

Alfred Brown, services	1.25
G. W. Francis, services	4.25
Fred G. Hanselman, services ..	1.50
Vernor W. McAdam, services	2.50
James Mason, services	2.00
H. R. Scovill, services	75.00
Martin Walsh, services	2.50
H. C. Worfel, services	75.00

Total Engineer Dept.\$164.00

Henry H. Wagoner, collecting garbage	500.00
Emily Zeeb, services	12.00
Mich. State Tel. Co, rentals	405.04
Paul Gibson, witness fee	1.10
Robert Peel, witness fee	1.10
League of Mich. Municipalities Dues	15.00
Jno. C. Fischer Co., supplies	63.95
Burroughs Adding Machine Co. attention to machine	5.20
C. E. Godfrey, cartage, etc	1.81

Total supplies, etc

Contingent Fund total including salaries

Fire Fund

Chas. Andrews, salary	76.65
Eugene Williams, salary	64.83
Ralph Edwards, salary	64.83
Henry McLaren, salary	61.50
Jacob Gwinner, salary	61.50
Harley Wise, salary	58.91
Frank Markey, salary	58.91
Herman Kruse salary	58.91
Emil Dammin, salary	58.91
Mat. Heninger, salary	58.91
Raymond Gillespie, salary	58.91
Lloyd Naylor, salary	58.91
Earl Arrol, salary	58.91
Claud Cobb, salary	58.91
Fred Nordman, salary	58.91
Benj. Zahn, salary	58.91
Henry Nevroth, salary	54.68
Charles Carroll, salary	38.74
Frank Kapp, salary	38.74

Total salaries ½ month Jan.\$1,109.48

White Swan Laundry Co., Ltd. laundry	15.85
The Detroit Edison Co., light ..	9.34
Washtenaw Gas Co., light	6.63
The Detroit Edison Co., supplies ..	7.17
Kyer & Whitaker, supplies	9.25
D. J. Malloy, supplies, etc	3.20
Muehlig & Schmid, supplies, etc	8.70
Alfred G. Walker, supplies	1.25
U. S. Army Q C store, supplies...	1040
Ottmar H. Lutz, repairs	1.50
The Machine Specialty Co., repairs	1.00
C. E. Godfrey, cartage, etc.	2.07

Total supplies, etc

Fire fund total including salaries

Police Fund

Thos. O'Brien, salary	76.65
Wm. Aprill, salary	58.91
Ed. Blumhart, salary	58.91

Frank Keihl, salary	58.91
Marland Howard, salary	58.91
Robert Clark, salary	27.44
Fred Sodt, salary	58.91
Clyde Bennett, salary	58.91
Chas. Splitz, salary	58.91
Joseph Gast, salary	58.91
Frank Marz, salary	58.91
Geo. Randell, salary	58.91
Charles Harden, salary	31.36

Total salaries 1/2 month January\$724 55

Ernest Casterline, special	48.00
Mich State Tel Co., tolls	5.85
Harvey Stofflet, subscriptions ..	15.00
Eberbach & Son Co., supplies ..	3.65
John J. Feiner, supplies	11.25
E. G. Hoag, supplies .....	.60
Geo. C. Jackson, signs	7.00
The Mayer-Schairer Co., supplies	2.00
Schumacher Hardware Co., sup...	6.25
Gus J. Vogel, supplies .....	.25
Staebler & Co., gasoline, etc	25.46
L. Boholz, service	2.50
Arnold & Co., repairs	1.50
D. J. Malloy, repairs, etc.	15.85
A. C. Marquardt, supplies, etc ..	22.03
Henry S. Platt, supplies	1.75
Seybold & Co., repairs	3.00
Stanger Furniture Co., repairs..	1.50

Total supplies, etc

Police Fund total including salaries

Poor Fund

John H. Shadford, salary	35.00
Mrs. Eva Essery, Tres. Old Ladies home	12.00
J. E. MacGregor, supplies	10.46
Walkers Grocery, supplies	14.02
A. A. Taxi & Trans Co., ambulance calls, etc.	10.50
Miss Louise Kraft, rent	15.75
A. G. Walker, supplies .....	.50

Total supplies, etc

Poor Fund total, including salary

Cemetery Fund

Herman Zulz, salary	85.00
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Water Works Fund

Geo. S. Vandawerker, salary	166.66
R. Spokes, salary	166.66
Dr. H. Emerson, salary	50.00
A. W. Cochran, salary	10.00
Geo. Mann, salary	10.00
John Lindenschmitt, salary	20.00
Wirt Cornwell, salary	20.00

Total monthly salaries

Harry Willsher, salary	50.00
Harry Walters, salary	42.50
Wm. Walters, salary	37.50
Emanuel Sodt, salary	60.00
Fred Linde, salary	50.00
John Volland, salary	37.50
John Schwikart, salary	37.50
Leslie Bush, salary	50.00
Norman Rowe, salary	40.00
Robt. Young, salary	37.50
A. E. Hawkes, salary	42.50
Cliff Shetterly, salary	60.00

Louise Malloy, salary	42.50
Russell Pryce, salary	42.50

Total semi-monthly salaries ..\$630.00

Total salaries

Crane Co., supplies	38.60
C. E. Godfrey, freight and cartage	37.47
Detroit Edison Co., light & power	1027.00
Staebler & Co., supplies	61.78
Jno. C. Fischer Co., supplies ....	.63
Allis-Chalmers Mfg. Co., pump..	406.25
City of Ann Arbor, paving repairs	205.74
W. L. McCullough Co., supplies	36.32
Bingham & Taylor, supplies	292.13
S. W. Millard, supplies	15.00
M. W. Sales & Co., supplies	5.12
The Foxboro Co., supplies	13.01
Letchfield & Stewart, services ..	215.14
Wm. R. Schneider, setting meters	350.00
G. A. Raiser, setting meters ..	175.00
American R. R. Express Co., exp.	10.13
Haarer & Son, insurance	21.25
Neptune Meter Co., supplies	3.08

Total supplies, etc

Water Works Fund total including salaries

Special Water Works Fund

Schumacher Hdw. Co., supplies	2.00
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Park Fund.

John Davis, labor	42.00
Lyle E. Davis, labor	6.80
Total labor	48.80

F. A. Gallup, salary	125.00
Hazel M. Woodward, sal.	10.00

Total salaries

Jno C. Fischer Co. sup...	2.35
C. W. Gill Lumber Co supplies	24.80
Muehlig & Schmid, sup...	4.50
City Garage, repairs	10.50

Total supplies, etc

Park Fund total including salaries

Street Fund

Chris Allmerdinger, labor	29.10
L. G. Bird, labor	42.63
Alfred Brown, labor	19.25
Jno. Gross, labor	23.00
Fred G. Hanselman, labor	45.25
Hilly Hughbanks, labor	25.00
Sam. Kalmbach, labor	6.00
Matt. Koch, labor	9.10
Fred Malke, labor	22.50
James Mason, labor	31.75
W. H. Romig, labor	24.00
Martin Walsh, labor	16.50
Geo. Zeifle, labor	25.80
Jas. Blades, team	27.00
Chas. Flewelling, team	36.78
W. J. Graver, team	10.67
Jno. W. Herrst, team	41.89
W. G. Hodson, team	24.00
John Miller, team	48.01
C. J. Snyder & Sons, team	17.34
Jno. W. Thomas, team	19.00
James Williams	10.50
Jacob Young, team	74.89

Total labor

H. J. Abbott, postage	10.86
Standard Oil Co., oil	8.35
Ed. Hamell, repairs	14.00
A. J. Paul, express paid	4.47

Total repairs, etc.\$ 37.68

Street Fund total\$667.64

Recapitulation

Contingent	\$3024.75
Fire	1185.84
Police	897.99
Poor	98.23
Cemetery	85.00
Water Works	4036.97
Special Water Works	2.00
Park	225.95
Street	667.64

Total City Funds\$10224.37

Ann Arbor, Mich., Feb. 2, 1920.

To the Finance Committee of the Common Council, Gentlemen:

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

ISAAC G REYNOLDS,
City Clerk.

To the Honorable, the Common Council, Gentlemen:

Your finance committee has reviewed the foregoing report. We recommend that same be approved and that warrants be ordered drawn for the foregoing accounts.

GEO. LUTZ,
JOHN MACGREGOR,
O. R. MAYER,

Finance Committee.

Ald. Mayer moved the adoption of report, which was adopted by following vote: Yeas, Ald. Sugden, Mayer, Prochnow, Henderson, Donnelly, Spathelf, MacGregor, Lutz, 8. Nays, none.

Ordinance Committee.

Ald. Mayer presented the following ordinance: "An ordinance to amend an ordinance entitled, 'An ordinance to regulate and control the driving of automobiles, motor vehicles and other vehicles within the City of Ann Arbor'" passed August 21st, 1911; approved August 23rd, 1911; amended November 15th, 1915, amended Sept. 15, 1919. The Common Council of the City of Ann Arbor ordain: which was given its first reading by title, pass-

ed to and given its second reading and referred back to Ordinance committee by following vote: Yeas, Ald. Sugden, Mayer, Prochnow, Henderson, Donnelly, Spathelf, MacGregor, Lutz, 8. Nays, none.

Sewer Committee.

By Ald. Prochnow, Resolved, that the sewer assessment of Mrs. Barbara Zastrow in Sanitary sewer dist. No. 93 be fixed and determined at fifty dollars as her portion of cost of said sewer, the city of Ann Arbor to pay the remainder of cost of said sewer construction in conformity with an ordinance passed Jan. 5, 1920. Resolved, further, that the City Clerk do certify this resolution and order of assessment to the City Assessor.

Adopted by the following vote: Yeas, Ald. Sugden, Mayer, Prochnow, Henderson, Donnelly, Spathelf, MacGregor, Lutz, 8. Nays, none.

To the Honorable, the Common Council, Gentlemen: Your Police Committee has had the following matters under consideration and respectfully recommends:

1. That the regular police force of this city shall consist of the city marshal and thirteen patrolmen.

2. That beginning Feb. 1st, 1920, the compensation per month shall be as follows: City Marshal or acting marshal \$175.00; first year patrolmen each \$125.00; after one year's service \$137.50.

Respectfully submitted, H. G. Ehnis, Geo. Lutz, Police committee.

Ald. Mayer moved the adoption of report, which was adopted by following vote: Yeas, Ald. Sugden, Mayer, Prochnow, Henderson, Donnelly, Spathelf, MacGregor, Lutz, 8. Nays, none.

Officers Report.

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

January 21, 1920.

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

Sirs: I submit the following report of work done under my direction, in your Engineer's Department, during the year ending December 31, 1919. Respectfully submitted,

GEO. H. SANDIENBURGH,
City Engineer.

PAVING

DISTRICT NO. 41. JACKSON AVENUE PAVEMENT: This is an asphaltic concrete pavement, extending from Huron street to the City

limits. Owing to the fact that this pavement connects the city pavement on Huron Street with the County pavement extending out of the City, we were able to receive Federal Aid, at the rate of twenty thousand dollars (\$20,000) a mile, which gave us practically eight thousand dollars (\$8,000) from the Federal Government. The total cost of the pavement has not been reported by the State Highway Department, under whose direction this work was done.

This is an asphaltic concrete pavement, on a six inch concrete base, the asphaltic concrete top being two inches thick. The pavement was constructed by the W. B. Chambers Company, Grand Rapids, Michigan.

DISTRICT NO. 42, THAYER STREET PAVEMENT: This pavement extends from the north line of North University Avenue to the south line of East Huron Street. It is an asphaltic concrete pavement on a six inch concrete base, the asphaltic wearing surface being two inches thick. The cost of this pavement has been divided as follows:

Contract cost	\$7365.06
Engineering and contingencies	124.64
Inspection	158.84

Total cost\$7648.54

The distribution of the cost is given as follows:

City share	\$1756.49
Property share	5892.05

\$7648.54

This pavement was constructed by the W. B. Chalmers Company, Grand Rapids, Michigan.

DISTRICT NO. 38, BROADWAY PAVEMENT: This pavement extends from the Michigan Central overhead bridge, to the north line of Swift Street. It is a vitrified brick pavement on a six inch concrete base with a one-inch cement-sand cushion between the base and the brick surface. The cost of this pavement has been as follows:

Contract cost	\$14445.84
Engineering and contingencies	230.98
Inspection	204.84

Total cost\$14881.66

The total cost of this pavement has been distributed as follows:

City share	\$8161.54
Property share	6720.12

\$14881.66

This pavement was constructed by W. J. Clancy, contractor.

DISTRICT NO. 39, DETROIT STREET PAVEMENT: This pavement extends from the north line of Catherine Street to the Michigan Central overhead bridge. It is a vitrified brick pavement on a six-inch concrete foundation, with one inch sand cushion between the base and the brick wearing surface. Owing to cold weather, this pavement was not finished. It will be completed in the Spring of 1920. The cost of this pavement to date, has been as follows:

Contract cost	\$25533.42
Engineering and contingencies	456.02
Inspection	354.76

Total cost\$26344.20

This pavement was constructed by W. J. Clancy, contractor.

DISTRICT NO. 40, DETROIT, CATHERINE AND FOURTH AVENUE PAVEMENT: This pavement extends on Fourth Avenue from Ann Street to Kingsley Street, on Catherine Street from Main Street to Fifth Avenue, and on Detroit Street from Fourth Avenue to Catherine Street. It is a vitrified brick pavement on a six inch concrete foundation, with a one inch sand cushion between the base and the brick wearing surface. Owing to cold weather, this pavement was not finished, but will be completed in the Spring of 1920. The cost of the pavement to date has been as follows:

Contract cost	\$15569.21
Engineering and contingencies	443.02

Inspection 225.64

Total cost \$16237.87

This pavement was constructed by W. J. Clancy, contractor.

DISTRICT NO. 43, EAST UNIVERSITY AVENUE PAVEMENT: This pavement extends from North University Avenue to Hill Street. It is an asphaltic concrete pavement with a two inch asphaltic concrete wearing surface and a six inch concrete base. Owing to the scarcity of labor, it was impossible to finish this contract this year. The cost to date, has been as follows:

Contract cost \$15699.78
Engineering and contingencies 291.31
Inspection 150.75

Total cost \$16141.84

A complete report will be made of this contract in the annual report of 1920. The pavement was constructed by Letchfield and Stewart, contractors.

DISTRICT NO. 44, SOUTH UNIVERSITY AVENUE PAVEMENT: This pavement extends from State Street to Oxford Road. It is an asphaltic concrete pavement on a six inch concrete foundation, the asphaltic wearing surface being two inches in thickness. This contract was not completed owing to the scarcity of labor and cold weather coming on early in the season. The concrete base is complete, but the asphaltic concrete wearing surface was completed to Washtenaw Avenue, leaving a space between Washtenaw Avenue and Oxford Road to be surfaced during the season of 1920. The cost of this pavement has been as follows:

Contract cost \$30041.17
Engineering and contingencies 924.14
Inspection 428.51

Total cost \$31393.82

This pavement was also constructed by Letchfield and Stewart, contractors.

PACKARD STREET PAVEMENT: The plans and specifications were prepared for this pavement, but owing to the fact that there was no storm sewer on the street and it was impossible to construct one until the main storm sewer was constructed on Granger Avenue, the construction of the pavement was postponed. The cost of preparing plans and specifications has been \$28.27.

EAST HURON STREET PAVEMENT: Due to some final repairs necessary on this pavement, the final estimate was not made with J. C. Stewart, the contractor, at the time of the completion of the pavement. The total amount due Mr. Stewart on this contract was \$5202.41. Of this amount, he was paid \$4103.13 during the year of 1917, leaving a balance of \$1099.28 due Mr. Stewart. After deducting bills of the City against Mr. Stewart amounting to \$1092.92, there was a balance due him of \$6.36. This amount has been paid.

GRADING, OPENING AND MAINTAINING STREETS

STREET LINES: The total cost for all work done in connection with running profiles, establishing grades, setting stakes and the care of street monuments, has been \$176.54.

OILING ROADWAYS: This year more streets were oiled than ever before with apparently very good success. As a dust preventive, the oil was very successful. The total amount spent by this department in preparing estimates, etc., was \$57.65.

SANITARY SEWERS

DISTRICT NO. 88, JACKSON AVENUE SANITARY SEWER: This is an eight inch vitrified pipe sewer, extending from Huron Street to the City limits. The cost has been as follows:

Contract cost \$2267.52
Engineering and contingencies 40.66
Inspection 93.79

Total \$2401.97

This total cost has been distributed as follows:

City share	\$ 143.00
Property share	2258.97

Total cost	\$2401.97
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This sewer was constructed by William Eddy & Son, contractors.

DISTRICT NO. 89, JONES AND MILL STREET SANITARY SEWER: This is an eight inch vitrified pipe sewer, extending from Broadway to Mill Street on Jones Street, and from Jones Street, four hundred and fifty feet (450) north, on Mill Street. Owing to cold weather, this sewer was not completed, but will be finished in the Spring of 1920. The cost to date, has been as follows:

Contract cost	\$952.38
Engineering and contingencies	21.00
Inspection	19.52

Total cost	\$992.90
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This sewer is being constructed by William Eddy & Son contractors.

DISTRICT NO. 90, BERKSHIRE ROAD AND ORCHARD STREET
DISTRICT NO. 91, EAST HOOVER AVENUE; DISTRICT NO. 92, EDWARD STREET: Contracts for the construction for these sewers were let to William Eddy & Son, July 21 1919, but owing to the scarcity of labor and difficulties in getting material, the work was not started this year. They will be completed in the Spring of 1920. The cost of preparing the plans and specifications, etc., to date has been as follows:

Dist. No.		
90.	Berkshire Road and Orchard St\$18.08	
91.	East Hoover Avenue	3.25
92.	Edward Street	7.26

Total	\$28.59
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DISTRICT NO. 93, SEVENTH STREET SANITARY SEWER: This is an eight inch vitrified pipe sewer, extending from Washington Street, north one hundred forty-five feet (145). The cost of this sewer has been as follows:

Contract cost	\$285.37
Engineering and contingencies	11.68
Inspection	7.74

Total cost	\$304.79
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DISTRICT NO. 94, BOULEVARD DRIVE SANITARY SEWER: This sewer extends from the north line of the Hamilton, Rose and Sheehan Addition on State Street, south to Boulevard Drive then west on Boulevard Drive to a point opposite the Cook Spring Company, about one hundred feet west of the Ann Arbor Railroad. Owing to a twenty inch water main being at the same elevation as the sanitary sewer on State Street opposite Boulevard Drive, it was necessary to go north on State Street in order to get under the 20 inch watermain, and connect with the deeper sewer at that point. The Board of Public Works advertised for bids, but no bids being received, the Board of Public Works obtained permission from the Common Council to proceed with the work by City force account. The cost of the work to January 1, 1920, has been \$851.60.

STORM AND SANITARY SEWER SURVEY: For the past two or three years, it has been very evident that in the near future, it would be necessary to build a new main sanitary sewer. In the Spring when heavy rains are prevalent, the main storm sewer is over-taxed and flows under head, thus forcing the sewage back into cellars. For the last two years, cellars have been flooded in this way for two or three days, before the water went down and the cellars were relieved. This is due to storm water getting into the sanitary sewers. Owing to this fact, five thousand dollars (\$5,000) was raised in the budget to have a complete storm sewer survey of the City made. A contract was entered into with Hoad and Decker, Consulting Engineers, where-

by they are to furnish a complete set of plans and profiles for a system of storm sewers for the City of Ann Arbor at a contract cost of five thousand dollars (\$5,000). At the time the money was raised for a storm sewer survey of the city, it was planned to raise an additional five thousand dollars (\$5,000) in 1920 for a sanitary sewer survey. In October, this year, Mr. Hoad of the firm of Hoad and Decker, advised the Council that inasmuch as they were going to have a sanitary sewer survey made, that it would be better to have the two surveys carried on simultaneously so that they could be planned more economically, than if each were made at a different time. Another contract was entered into with Hoad and Decker to furnish a complete set of plans and profiles for enlarging and redesigning the present sanitary sewer system, at a cost of forty-two hundred dollars (\$4200). The amount paid to Hoad and Decker to January, 1920, on this contract for furnishing plans and profiles for storm sewer has been twenty-five hundred dollars (\$2500).

SANITARY SEWER MAINTENANCE: The care and maintenance of existing sanitary sewers during the year of 1919, has cost \$1264.01.

TAPPING SANITARY SEWERS. According to your ruling made July, 1914, all tapping of sanitary sewers has been done by a City employe. The cost of such work during the year of 1919 has been \$7.70.

PAYMENTS OF FIVE PERCENT RETAINED: The following is a tabulated list of the amounts paid to the contractors during the year 1919 on work completed in 1918. The amount is five percent of the contract cost which was retained for one year.

Dist. No.	Location	Paid to Contractor	Contractor
86	West Hoover Avenue.....	\$12.63	J. C. Stewart
87	Ninth Street, from Huron Street west	14.63	Wm. Eddy & Son

SUMMARY OF SANITARY SEWER DISTRICTS: A tabulated summary of the sanitary sewer district Nos. 88, 89, 90, 91, 92, 93 and 94, is given below, with all information in regard to same.

SUMMARY OF SANITARY SEWERS BUILT DURING 1919

Streets and Limits	District	No of house connections	Total length house con.	Length of main	Manholes	Flushtanks	Lightholes	Total cost	City to pay	Property to pay	Amount of contract	5% retained on contract	When Due	Contractors
Jackson ave., Huron to City Limits...	88	65	1126	1945	8	1	0	2401.97	143.00		2267.52	113.38		Wm. Eddy & Son
Jones and Mill Sts. Broadway West ..	89	7		544	2	0	0				Not Completed			Wm. Eddy & Son
Berkshire road and Orchard, Wash-te., E.	90										Not Completed			Wm. Eddy & Son
E. Hoover Ave. A. A. R. R. West	91										Not Completed			Wm. Eddy & Son
Edward St., Summit St. North	92										Not Completed			Wm. Eddy & Son
Seventh St., Huron to Washington ..	93	2	2	146	1	0	0	304.69			285.37	14.26	8-5-20	Wm. Eddy & Son
Boulevard Drive, State St. South...	94	0	0	430	2	0	0				Not Completed			City Force Acct.
Dexter Ave., Huron St. Northwest ...		2	24	168	1	0	0	101.00	101.00					City Force Acct.
Totals		76	1152	3233	14	1	0	2807.66	244.00	0.00	2552.89	127.64		

DEXTER AVENUE SANITARY AND STORM SEWER: Due to the construction of the Jackson Avenue pavement, it was necessary to make provisions for storm and sanitary sewers on Dexter Avenue. The necessary extensions were made as far as the pavement extended up Dexter Avenue. The total cost of the construction of these sewers has been \$201.33.

STORM SEWERS

JACKSON AVENUE STORM SEWER: This is a twelve inch vitrified pipe sewer, extending from Huron Street to the City limits.

Contract cost	\$3744.74
Engineering and contingencies	40.66
Inspection	93.79

Total cost\$3879.19

This sewer was constructed by William Eddy & Son, contractors.

BROADWAY STORM SEWER: This is a twelve inch storm sewer, extending from Broadway Bridge to Swift Street on the north side of the Huron River and on the south side of the Huron River, from the river to the Washtenaw Gas Company's driveway.

Contract cost	\$ 991.38
Engineering and contingencies	13.85
Inspection	10.89

Total cost\$1016.12

This sewer was constructed by William Eddy & Son, contractors.

DETROIT STREET SEWER: This is a twelve inch vitrified pipe sewer, extending from Kingsley Street to Fifth Avenue.

Contract cost	\$1603.38
Engineering and contingencies	12.83
Inspection	18.26

Total cost\$1634.47

This sewer was constructed by William Eddy & Son, contractors.

CATHERINE STREET STORM SEWER: This is a fifteen inch vitrified pipe sewer, extending from the alley between Main Street and Fourth Avenue, to Fifth Avenue.

Contract cost	\$2195.39
Engineering and contingencies	25.09
Inspection	28.32

Total cost\$2248.80

This sewer was also constructed by William Eddy & Son, contractors.

SOUTH UNIVERSITY AVENUE STORM SEWER: This is a twelve inch vitrified pipe sewer, extending from Linden Street to Oxford Road.

Contract Cost	\$1198.02
Engineering and contingencies	26.40
Inspection	21.49

Total cost\$1245.91

This sewer was constructed by William Eddy & Son, contractors.

EAST UNIVERSITY AVENUE STORM SEWER: This sewer extends from South University Avenue to North University Avenue. It is a fifteen inch vitrified pipe from South University Avenue to College Street and a twelve inch pipe from College Street to North University Avenue.

Contract cost	\$2430.30
Engineering and contingencies	23.70
Inspection	28.86

Total cost\$2482.86

This sewer was constructed by William Eddy & Son, contractors.

STORM SEWER MAINTENANCE: This department has spent during the year of 1919, for maintenance and cleaning of storm sew-

ers, \$418.00; of this amount \$189.57 is for labor and \$228.43 for material.

FIVE PERCENT RETAINED: The five percents retained on storm sewers completed during the year of 1918 and paid during the year of 1919, are listed below.

Location	Paid to Contractor	Contractor
East Washington & 14th Street.....	\$184.63	A. W. Baldwin
Gott Street from Miller Avenue to Summit Street	270.77	Wm. Eddy & Son
Catherine Street from Main Street to alley east of Main Street	34.18	Wm. Eddy & Son
East Hoover Avenue	32.27	Wm. Eddy & Son

SUMMARY OF STORM SEWER: A summary of storm sewers completed during 1919, will be found on the following page:

SUMMARY OF STORM SEWERS BUILT DURING 1919

Street and Limits	Length of main	Length of inlet con.	Inlets			Manholes	Total cost	Amount of contract	5% retained on contract	When due	Contractors
			Regular	Alley	Special						
Jackson Ave., Huron St. to City Limits	1814	513	12	0	0	12	3879.18	3744.74	187.23	6-25-20	Wm. Eddy & Son
Catherine St., Main St. to 5th Ave.....	495	418	10	0	0	6	2248.80	2195.39	108.55	8-6-20	Wm. Eddy & Son
Detroit St., Kingsley to 5th Ave.....	327	445	14	0	0	3	1634.47	1603.38	79.66	8-6-20	Wm. Eddy & Son
Broadway, Huron River to Swift St....	210	248	7	0	0	3	1016.12	991.38	48.72	8-6-20	Wm. Eddy & Son
East University Ave., S. Univ. Ave. to N. Univ. Ave.	966	298	8	0	0	4	2482.86	2430.30		Pd.12-1-19	Wm. Eddy & Son
South University Ave., Linden to Oxford Road.....	654	210	6	0	0	2	1245.91	1198.02	59.90	12-1-20	Wm. Eddy & Son
Hill St., Church to E. Univ. Ave.....	286	200	4			1	796.43	767.24	38.36	12-1-20	Wm. Eddy & Son
Dexter Ave., Huron to end of pavement.....	50	...	0	0	0	0	100.33	.....	.....		City Force Account
Totals	4802	2332	61	0	0	31	13404.10	12930.45	522.42		

OTHER PUBLIC IMPROVEMENTS

REPAIRS TO FIRE STATION NO. 1: Improvements were made to the Fire Station No. 1, as follows: New concrete floor in first story, new eave troughs, several new doors and windows and repairs to heating system. The partitions in the first floor were torn out and replaced by columns and beams which make one room in the first story.

This work was done at a total contract cost of \$455.71
 Engineering and inspection 57.88

Total \$313.59

TOOLHOUSE AT FAIRVIEW CEMETERY: The contract for this job was let to John Koch Company. The cost has been as follows:

Contract cost \$771.66
 Engineering and contingencies 34.13

Total cost \$805.79

NEW POLLING PLACES: New polling places were constructed under the direction of this department in the second precinct of the Seventh Ward, and in the Sixth Ward. This work was done at a total contract cost of \$692.00

Plans and specifications, engineering and inspection 82.73

Total cost \$774.73

SIDEWALK AND CURB GRADES: During the past year, this department has furnished lines and grades for thirty-five hundred feet of sidewalks, which were built by the City contractors. Besides this, the department has furnished lines and grades for all walks built by property owners. The total cost of sidewalks built by the City was \$2,663.77. The total cost for sidewalk and curb grades during 1919 has been as follows:

Sidewalk grades \$309.31
 Curb grades 61.96

Total cost \$371.27

SUMMARY OF MONTHLY LABOR REPORTS

Job No.

1. Accounts	30.17
2. Records	1224.39
3. Correspondence	124.15
4. Reports, monthly and annual	96.00
5. Council, board and committee meetings	138.21
6. Inspecting plumbing and laying tile	2.06
7. Numbering houses	8.77
8. Information to public	366.48
9. Information from others for city	19.55
10. Sanitary sewer maintenance	980.37
11. Storm sewer maintenance	189.57
12. Engineer's office, cleaning and arranging	7.02
13. City yards and shed, cleaning, arranging and improvements	26.25
15. Equipment, Engineer's office	2.09
17. Equipment surveying	9.81
18. Bids, quotations and discount on material for general purposes	2.51
19. Work for Water Department	8.97
20. Work for Park Department	13.17
21. Fairview Cemetery	22.83
22. Sidewalk grades	309.31
23. Curb grades	61.96
24. Street lines and grades	252.79
25. Preliminary estimates	66.18
55. Steere Farm, gauging wells	2.48
56. Steere Farm, survey of	4.09
58. Tapping sanitary sewers	7.70
59. Sickness and vacations	230.57
60. Automobile	45.35

65.	Bridge and viaduct maintenance	78
66.	Directing work of department	445.18
67.	Oiling roadways	57.65
75.	Care of storm water—general	4.16
76.	Tools and machinery for general purposes .....	.84
84.	Steere Farm Maintenance	32.90
87.	Heating plant for City Buildings and repairs to Fire Station No. 1	57.88
92.	Work for Street department	120.17
100.	Assessor's plats for City	37.83
113.	South University Avenue pavement	1273.98
126.	Improvement to City property—Fourth Ave.	17.00
130.	Sanitary sewer on Berkshire Road and Orchard St. ..	17.46
133.	East Hoover Avenue sanitary sewer	3.35
137.	Storm sewer survey	2.51
127.	East Washington & 14th street storm sewer .....	.17
128.	Gott Street storm sewer .....	.18
138.	Dexter Avenue sanitary and storm sewer	144.88
139.	Toolhouse and shelter at Fairview Cemetery	34.13
142.	Jackson Avenue pavement	257.95
144.	Voting booths for Second precinct of Seventh Ward and for Sixth Ward	82.73
143.	Work for Fire Department .....	.93
145.	Jackson Avenue storm and sanitary sewers	245.74
146.	Catherine, Fourth Avenue and Detroit pavement	633.92
147.	Broadway pavement	414.46
148.	Lawrence Street curb and gutter	36.42
149.	Catherine Street storm sewer	50.56
150.	Detroit Street pavement	788.70
151.	Packard Street pavement	28.27
152.	Thayer Street pavement	248.48
153.	South University Avenue storm sewer	47.89
154.	Broadway storm sewer	24.74
155.	East University Avenue storm sewer	52.56
156.	Detroit Street storm sewer	31.09
157.	Housing Code	63.64
158.	Oxford Road curb and gutter	53.01
159.	Hill Street storm sewer	29.19
160.	East University Avenue pavement	409.08
161.	Jones and Mill Street sanitary sewer	40.52
162.	Edward street sanitary sewer	7.26
163.	Seventh Street sanitary sewer	19.42
165.	Boulevard Drive sanitary sewer	82.76
166.	Survey of State Street business district	6.56

\$10168.73

SUMMARY OF EXPENDITURES FOR LABOR DURING 1919.

	Engineering	Clerical	Inspection	Sewer Work	Totals
G. H. Sandenburgh	\$2019.10		\$ 12.75	\$ 133.77	\$ 2166.62
H. C. Worfel	775.32			55.45	830.77
F. L. Feiner	654.34		29.89	113.85	798.08
Julius Lohrke	619.57		14.74	475.69	1110.00
H. M. Woodward		813.81		.44	814.25
W. A. Backus			269.50		269.50
Arthur Dahlberg	10.33				10.33
T. J. Donahue	59.80				59.80
G. W. Francis	282.65				282.65
B. E. Groves	48.58				48.58
Paul Holland			580.76		580.76
S. C. Jacka	55.23			.35	55.58
Vernor McAdam	87.88		418.62		506.50
R. S. McNeil	9.45				9.45
Stanley Pinel	14.40				14.40
C. J. Rash	168.58			6.56	175.14
W. B. Russell	243.57			1.12	244.69
H. J. Schlee	5.60				5.60

H. R. Scovill	136.40	466.43	6.79	609.62
M. E. Snyder	138.10		.40	138.50
F. C. Spring	219.70		.80	220.50
R. B. Taylor	87.25			87.25
J. W. Walsh		15.56		15.56
E. R. Weeber	219.48	91.75	2.25	313.48
Street Comm. Rolls	419.38		384.33	803.71
Totals	\$6274.71	\$813.81	\$1901.00	\$1181.80
Credit check from Western Union	2.59			2.59

\$6272.12

\$10168.73

SUMMARY OF EXPENDITURES FOR OFFICE EQUIPMENT AND SUPPLIES

7. Numbering houses	1.00
10. Sanitary sewer construction supplies and equipment	283.64
11. Storm sewer construction supplies and equipment	228.42
14. Supplies for Engineer's office	220.51
15. Equipment for Engineer's office	9.95
16. Surveying supplies	14.85
17. Surveying equipment	301.04
24. Street lines and grades	23.75
60. Automobile: Repairs, cleaning and oiling	\$411.18
Gasoline and oil	140.00
76. Tools and machinery for general purposes .....	.75
Miscellaneous	13.03

\$1648.13

SUMMARY OF EXPENDITURES FOR CONSTRUCTION EQUIPMENT AND SUPPLIES

113. South University Avenue pavement	80.67
138. Dexter Avenue sanitary and storm sewers	56.45
145. Sanitary and storm sewers on Jackson Ave	14.15
146. Catherine, Fourth Avenue and Detroit pavement	34.74
147. Broadway pavement	21.36
149. Catherine Street storm sewer	2.85
150. Detroit Street pavement	22.08
152. Thayer Street pavement	36.00
160. East University Avenue pavement	35.93
165. Boulevard Drive Sanitary sewer	85.61

389.84

\$2037.98

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

Office Accounts	30.17
2. Office records	1224.39
3. Office correspondence	125.88
4. Reports, monthly and annual	96.00
5. Council, Board and Committee meetings	138.21
6. Inspecting plumbing and laying tile	2.06
7. Numbering houses	9.77
8. Information to public	306.48
9. Information from others for City	19.55
12. Engineer's office, cleaning and arranging	8.74
13. Cleaning, arranging and improvements to city yards	26.25
14. Office supplies	220.51
15. Office equipment	9.95
16. Surveying supplies	14.85
18. Surveying equipment	301.04
59. Sickness and vacations	230.57
66. Directing work of Department	445.18

\$3209.63

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

Contract	Contractor	Cost of Improvement	Engineering Inspection	Paid to Contractor	Amount Retained
Jackson Ave. storm sewer,	Wm Eddy & Son	\$ 3744.74	\$ 134.35	\$ 3557.51	\$ 187.23
Detroit Street storm sewer,	Wm. Eddy & Son	1602.38	31.09	1523.72	79.66
Broadway storm sewer,	Wm. Eddy & Son	991.38	24.74	942.66	48.72
East University Ave. storm,	Wm. Eddy & Son	2430.30	52.56	2430.30	
South University Ave. storm,	Wm. Eddy & Son	1198.02	47.89	1138.12	59.90
Catherine St. storm sewer,	Wm. Eddy & Son	2195.39	53.41	2086.84	108.55
Hill Street storm sewer,	Wm. Eddy & Son	767.24	29.19	728.88	38.36
Jackson Ave. sanitary sewer,	Wm. Eddy & Son	2267.52	114.11	2154.14	113.38
Jones & Mill sanitary sewer,	Wm. Eddy & Son	1058.20	40.52	952.38	105.82
Seventh St., sanitary sewer,	Wm. Eddy & Son	285.37	19.42	271.11	14.26
Thayer Street pavement,	W. B. Chalmers Co.	7365.06	283.48	7365.06	
Jackson Avenue pavement,	W. B. Chalmers Co.	Not Reported by		257.95	State Highway Dept.
Broadway pavement,	W. J. Clancy	14445.84	435.82	14345.84	100.00
Detroit Street pavement,	W. J. Clancy	25533.42	810.78	22980.08	2553.34
Catherine, 4th Ave. & Det pavt.	W. J. Clancy	15569.21	668.66	14046.52	1522.69
E. University Ave. pavement,	Letchfield & Stewart	16526.08	442.06	15699.78	826.30
S. University Ave. Letchfield & Stewart		33345.68	1352.65	30041.17	3304.51
Packard Street pavement,	Not constructed		28.27		
Remodeling Fire Station,	John Koch Co.	\$3442.13			
	Hutzel & Co.	359.18			
	C. H. Kittredge	450.00			
	Miscellaneous items	4.40			
		4255.71	57.88	4255.71	
Toolhouse at Fairview Cemetery,	John Koch Co.	771.66	34.13	771.66	
Lawrence St. Curb and gutter,	Thomas Hession	963.58	36.42	963.58	
Oxford Road curb and gutter,	Thomas Hession	1019.04	53.01	1019.04	
New Polling plans:					
7th Ward, Hanselman, 6th ward	Zells	692.00	82.73	692.00	
Dexter Avenue storm and sanitary	City Force Account	192.70	8.63	192.70	
Boulevard Drive sanitary sewer,	City Force Account	799.25	52.35	799.25	
		\$138020.77	\$5152.10	\$128958.05	\$9062.72

Annual Report of the Street Commissioner to the Board of Public Works

City of Ann Arbor, Mich., 1919.

Office of Street Commissioner, Ann Arbor, Mich., Jan. 12, 1920.

Hon. Board of Public Works, Joseph L. Arnet, President: Gentlemen—I herewith present the annual report of the Street Department for the year ending December 31, 1919; including care of streets and sidewalks, building and repairs of sidewalk extensions, crosswalk, inlets, etc., city paving work, and gravel, cement and other materials used:

STREET WORK—

Cleaning paved streets, labor, teams and driver motor sweeper \$4,523.75
 city team 1,736.00
 \$6,259.75

Gasoline for motor sweeper\$269.88
 Freight 29.69
 \$299.17

Gasoline locally 110.41 409.58
 Handling gasoline labor 6.96
 Repairs gasoline pump, city hall, labor\$ 3.02
 Repairs gasoline pump 7.60
 Fuel, heating boiler 26.10
 Repairs, oiler, labor 3.00
 Repairs, materials etc.29.26 32.26 3140.61
 (Number of streets or parts of streets for which oiling was petitioned, 62.)
 Amount paid to city treasurer by property and tenants2033.88
 Amount paid for work by D. U. R. 74.20
 Amount paid for work by U. of M. 98.91
 \$2206.99

Installing tar and oil tanks—
 Moving and setting old tar and oil pump, materials 2.25 5.27
 Repairs motor sweeper, city labor \$190.09
 Repairs motor materials and labor 57.78 247.87
 Repairs and parts m. sweeper, from factory\$282.19
 Express 11.52 293.71
 New tire, motor sweeper 79.03
 Miscellaneous supplies, m. sweeper 16.53
 Cleaning and laying up motor sweeper 12.58
 Lubricating oil and grease, m. sweeper,\$113.95
 Freight 1.53 115.48
 Water, motor sweeper, 117,360 gals. 11.73
 Material for motor sweeper b'ns \$127.44

Freight 19.33
 \$146.77

Labor making brooms 203.92 350.69
 Hand brooms \$ 75.98
 Express and fgt. 3.74 79.72
 Repairs standpipes (water for m. sweeper.. 46.76 \$7,935.66
 (Average cleaned by motor sweeper, 109,513 square yards per day.
 Total for season, 17,850,630 square yards.
 Cost of cleaning per 1,000 square yards, 0.44457.

Cleaning leaves from paved streets \$294.93

TAKING CARE OF SNOW—

Cleaning snow from crosswalks and gutters, ..\$196.83
 Plowing snow from sidewalks 61.94
 Hauling snow from streets 29.56
 Plowing snow from gutters\$16.78
 Repairs, etc snow plows, \$2.90
 308.01

Repairs streets pavements, labor\$541.72
 147 sacks cement, 36.75
 bbls. @ \$2.422..... 89.01
 27 loads gravel @ 35c 9.45
 13 loads sand @ 50c .. 6.50
 665 new brick @ \$30.46
 per M. 20.26
 2,575 old brick @ \$10 per M 25.75
 8,275 old asphalt block @ \$10 per M. 82.75 775.44
 (Of above amount, work done for water dept., public service corporations, etc., amounted to \$314.27).

(Bills in city clerk's office for collection).

Repairs paving over water ditch, South State st. (Hill to Arch street) (paid by Water Department)
 labor\$394.77
 Cement, 35.25 bbl. cloth 93.42
 Cement 70.25 bbl, paper 179.14
 74 loads gravel, \$37.00, other supplies, \$19.88 . 56.88
 Superintendence and use of tools 72.00 796.21
 Grading with scarifier and roller, including dragging and wetting roadways, labor and teams\$355.64
 Repairs scarifier, labor 71.94
 Material and repairs ... 52.48
 Express73
 Maintenance scarifier, (sharpening teeth) ... 12.00
 245 gals. kerosene oil (fuel) 35.08
 Gasoline 33.42
 Lubricating oil 11.24 572.53
 Cleaning gutters, dirt streets \$ 2,609.27
 Cleaning leaves from gutters, dirt streets 1,004.75
 Mowing weeds from streets and lawn extensions, labor\$377.99
 Repairs horse mower ... 7.80

Scythes, etc.	5.60	391.39	70 sacks cement, 17.5		
Building abutment north			bbl. @ \$2.422	42.39	..
side Fuller street op-			17 loads gravel @ 0.35..	5.95	
posite end of Glen ave-			5 gal. gasoline @0.255..	1.28	
nue, labor	\$ 40.34		Paint, etc	9.10	
41 sacks cement, 10.25			Supplies and repairs		
bbls. @ \$2.422	24.83		motor for pump	16.30	
13 loads gravel @ 0.35.	4.55		Express, 0.54, telegram		
10 gals. gasoline @ 0.255	2.55	\$72.27	0.69	1.23	
Grading streets with			Building heating boil-		
scrapers and street			er house	38.40	
drags, labor, teams			Work on heating boiler.	45.47	
and tractor		\$1468.71	Plumbing work o n		
Grading, graveling and			tanks	395.94	824.59
patching dirt streets. 7453.37					
3081 loads gravel	1134.24	8587.01	Total Street Work	\$31247.12	
Detailed account of gravel—			CULVERTS—		
341 loads (delivered) \$222.99			Repairs, culverts, labor—		
1773 loads @ 0.35.....	620.55		South 5th ave.	2.50	
893 loads @ 0.25	233.25		William and Ann Arbor		
69 loads @ 0.40.....	27.60		R. R.	5.93	
64 loads @ 0.50	32.00		Ashley and Jefferson,		
325 loads (filler)@ 0.25	6.25		Broadway between		
16 loads (cinders)@0.10	1.60		Wall & Jones st.	28.09	
			Ashley and 1st st.	8.18	
					\$44.70
Tarring concrete pavements—			7 sacks cement, 1.75		
(Including patching			bbl. @ \$2.422	4.24	
brick and block			3 loads gravel .....0.35	1.05	49.99
streets, sweeping, sand-			Railings on culverts—		
ing and unloading			Seventh street	10.13	
torredo sand)	472.77		Division and Hill st. ..	30.40	40.47
10097 gals. tarvia	1110.67		Cleaning culverts and		
162 gals. tarvia (K. P.			Allen's creek		3.60
and X. C. grade)....	30.40				
Freight	83.73		Total Culvert Work	\$94.06	
Current for tar tank			SIDEWALKS—		
pump	1.90		Grading for sidewalks	169.01	
Coke, heating boiler..	6.53		Sidewalks built for city under		
261.0 tons torpedo			contract—		
sand (approx. 174.5			For property owners (by A. F.		
loads)	157.08		Thompson) pieces, 33; lineal		
Freight on sand	104.74	1967.81	ft. 191.8; square ft. 10345.9—	1490.29	
Grading, etc. streets—			For city (by A. F. Thompson)		
Grading and graveling			pieces, 1; lineal ft. 42.5; square		
Lawrence street be-			ft. 238.5	37.46	
tween Division and			For (alley front Depot st) proper-		
State street, labor	133.85	163.25	ty owners) (by Thos. Hession		
84 loads gravel @0.35.	29.40		pieces. 18; lineal ft. 1035.65;		
Grading and filling			square feet, 5311.865	912.86	
Oxford road and			For city (By Thos. Hession) piec-		
grading at intersec-			es, 1; lineal ft. 10; square ft.		
tion with South Uni-			83.2 (alley front Glen ave)	14.98	
versity paving, labor. 195.58			For property owners (by William		
51 loads gravel and			Clark) pieces. 1; lineal ft. 79.5		
fill @ 0.35	17.85	13.43	square ft. 397.5	59.63	
Sprinkling streets—			For property owners (by Board		
East and S. University			Pub. Work) pieces. 1; lineal		
Aves (order Council). 8.00			ft. 52.9; square ft. 303.5	48.65	
Around Campus, 1918 ..	76.50	84.50	Under resolution of Council, city paid		
(Bill not in for 1918 report)			one-half the cost of sidewalks, as fol-		
Putting up street signs and notices—			lows—		
Setting, labor	15.05		East Washington st		
Printing notices	8.60		2 pieces	52.27	
Use of horse and wagon	12.50	36.15	North Ingalls st. 1		
Oiling streets—			piece	34.48	86.75
Sweeping, putting on			Repairs tar sidewalk (for ceme-		
and heating tank, labor			tery) Wright street (C. M.		
and teams	411.82		Thompson, contractor) pieces		
40,478 gals. road oil	2074.78		1; lineal ft. 217; rods, 13.15....	13.15	
Freight on oil	588.05				
Current for oil tank			Total Sidewalk Work	\$2830.78	
tank and setting new tank—			SIDEWALKS EVTENSIONS, CROSS-		
Moving, placing and			WALKS, ETC.—		
building cement sup-			Building sidewalk ex-		
ports, labor	203.28				
Moving (trucking co.) ..	65.25				

tensions, cross-walks cement culverts at street intersections etc., labor	2472.87	
986 sacks cement, 246.5 bbl. @ \$2.422	597.02	
222 loads gravel @ 0.35	77.70	
8 loads said @ 0.50 ..	4.00	
19 loads filler @ 0.25..	4.75	
1600 old brick @ \$10.00 per M	16.00	
1520 new brick @ \$30.46 per M.	46.30	
Lumber	75.06	
Irons for cement cul- verts	65.70	
Curb form	6.00	
Tarred felt	2.00	3367.40
Sidewalk extensions laid by contract— (By A. F. Thompson) pieces, 17; in. ft. 129.83 sq. ft. 634.15....	95.04	
(By Thos. Hession) pieces, 6; lin. ft. 18.5 sq. ft. 99.5	14.93	109.97
Curbing Set— (By A. F. Thompson, contractor) 1 piece curb and gutter box 12.5 lin. ft.	5.00	
Cleaning crosswalks ..	80.07	
Unloading cars cement..	36.19	
Unloading car brick ..	29.26	
Handling empty cement sacks	14.95	
Freight on sacks	3.17	18.12
Cleaning bridges .....	.45	
Cleaning sand Broad- way bridge	23.76	24.11
Repairs bridges— Railing at Broadway bridge	4.75	
Total, Extensions, Crosswalks etc.	\$3674.97	

INLETS, STORM SEWERS, ETC.— Repairing and cleaning inlets, gutter boxes etc., and repairs storm sewers, labor ..	387.28	
Tile	115.29	
(Madison & A. A. R. R. \$45.93; Brooks & Chubb road, \$25.20; Division & Hill, \$35.61; 4th & Madison, \$8.55.)		
15 sacks cement, 3.75 bbl. @ \$2.422	9.08	511.65
Digging ditch for water pipe for barn at Fair grounds (Barns Park) labor	26.97	
Plumber's bill	125.95	152.92
Laying storm sewers— Hiscock street, labor...	18.08	
Tile	127.75	
2 sacks cement, 1/2 bbl. @ \$2.422	1.22	148.86
Alley, Catherine near Detroit st. labor	13.30	
Tile	10.36	
2 sks cement, 1/2 bbl. @ \$2.422	1.21	24.87
Laying drain tile north side Washtenaw avenue from Wayne street east to opposite Aus- tin Avenue, labor.....	131.87	

Tile	33.00	164.87
Laying extensions to storm and sanitary sewers Dexter road at intersection Huron street paving district No. 41), labor		124.45
(Later, this amount was transferred back to street fund from bridge, cul- vert and crosswalk fund)		
Boulevard Drive sanitary sewer (district No. 94 labor		529.13
(Special account—amount to be re- turned to street fund when assessment made for the improvement)		

Total inlets, storm sewers, etc	\$1656.75	
PAVING— Extension paving to street line south side Washtenaw avenue at intersection Baldwin avenue, labor	70.11	
88 sacks cement, 22 bbl. @ \$2.2422	61.76	
13 loads gravel @ 0.35..	4.55	
10 gal. gasoline @0.255..	2.55	131.09
Extension paving to street line south side Liberty street at inter- section Soule Boule- vard, labor	82.61	
102 sacks cement 25.5 bbl @ \$2.2422	61.76	
15 loads gravel @ 0.35..	5.25	
10 gal. gasoline @ 0.255	2.55	152.17

Total Paving	\$283.26	
GENERAL WORK AND REPAIRS— Miscellaneous work and repairs	23.51	
Repairs hydrant city tard, labor	3.60	
Plumber's bill	11.98	15.58
Taking ashes from city hall basement		15.55
Making tool box		13.00
Building cement floors city yard sheds, labor	160.21	
173 sacks cement, 43.25 bbl. @ \$2.422	104.75	
34 loads gravel @ 0.35..	11.90	
25 gal. gasoline @0.255..	6.38	283.24
Repairs tools and ma- chinery, laying up scarifier, cement mixer etc.		9.65
Work on city yard coal shed (for poor master)		13.58
Taking out trees in streets and lawn ex- tensions, hauling limbs trees, etc (for park department)		29.63
Removing debris, caused by wind storm Nov. 29 1919, trees, branches, etc., labor	174.07	
Repairs shed city yard.	5.00	
Putting in glass, house city yard	1.10	
Glass and setting	8.19	188.36
Taking care of storm water, pumping cellars etc		7.76
Piling brick at city yard		53.44

Repairs polling places—		
4th ward	7.20	
1st ward	2.80	
Others .....	.50	10.50
Greasing and care		
scrapers and wagons..		5.15
Cleaning up rubbish at		
city yard and handling		
material		129.61
Repairs fence, Felch		
street .....		.60
Handling coal for city		
hall and engine house		3.20
Spreading fill Wines		
field		7.75
(Paid by A. A. H. S. Athletic Asso-		
ciation)		
Handling wood sold by		
city and delivered by		
city team		45.57
Repairs drinking foun-		
tains, labor and ma-		
terials		16.52
Repairs sheds and barn, city yard—		
Lumber for barn	32.00	
Tarvia for roofs	12.50	
Labor barn roof	6.00	
Roofing paper for		
sheds	170.00	220.50
Total general work and re-		
pairs		\$1092.30

SUPPLIES, REPAIRS ETC.—

General bills		697.19
Department runabout ..	560.62	
Less allowance old		
machine	193.24	367.38
Car calcium chloride ..	472.50	
Freight	51.15	523.65
Tar and oil tank	750.00	
Freight	37.37	787.37
Maintenance city team—		
Hay	179.27	
Oats	229.19	
Harness and repairs....	22.80	
Bran	7.30	
Straw	24.80	
Horseshoeing	76.90	
Unloading hay and oats		
labor	3.80	544.06
Maintenance street department		
runabout—		
Tires	21.80	
Repairs	44.35	
Storage	10.00	
Gasoline (approx. 627		
gal)	148.56	
Greasing, labor	1.10	225.81

Total supplies, repairs, etc ..\$3145.46

RECAPITULATION

Street work	\$31247.12
Culverts	94.06
Sidewalks	2830.78
Sidewalk extensions, etc	3674.97
Inlets, storm sewers, etc.	1656.75
Paving	283.26
General work and repairs	1092.30
Supplies, etc	3145.46
Total	\$44024.70
Crosswalks built, brick	12
Crosswalks, cement concrete	6
Sidewalk extensions built (by city) ..	158
Sidewalk extensions built (by con-	
tract	23

Culverts repaired	5
Storm water sewers laid	4
Storm sewers relaid and repaired ..	4
Sanitary sewers laid	1
Sanitary sewers (not yet completed)	1
Crosswalks repaired and relaid ...	28
Sidewalk extensions repaired	16
Gutter boxes built, cement, 24; tile	125
Curbing (city) pieces	11
Curbing (contract) pieces	1
Cement approaches at intersection	
new paving and dirt streets, pieces	6
Storm water culverts at street inter-	
sections (about 228 lineal feet) ..	7
Storm water culverts at driveways .	3
Storm water culvert, extended	1
Sidewalks repaired (city, by con-	
tract)	1
Sidewalks built (city)	1
Sidewalks extended to curb (city) .	1
Cement sidewalks built by city un-	
der contract—	
For property owners (3129.63 lineal	
ft; 16385.765 square ft)	53
For city (52.5 lineal ft; 321.7 sq. ft.)	2
Grand total, 3182.13 lineal ft. or	
0.0026 of a mile; 16680.465 sq. ft.)	
Notices served	110
To repair sidewalks	78
To observe street regulations and re-	
move street regulations	7
To cut weeds	26

GRAVEL ACCT.

	Loads
Graveling and patching streets in	
the several wards	3081
Graveling; Lawrence, 84; Oxford	
road, 51	135
Extension and crosswalk work	222
Extension and crosswalk work (fill-	
er)	19
Paving repairs	27
Paving repairs, water ditch, S. State	
St.	74
Paving at street intersections, Bald-	
win, 13; Liberty 15	28
Cement floors, city yard	34
Abutment foot Glen avenue	13
Setting tar and oil tanks	17
Culverts 3; sidewalk repairs, 1 ...	4
New sidewalk, 5; storm sewer work	
4	9
	3663
Torpedo sand for topping concrete	
streets, 261.8 tons (approx. 174.5	
loads)	174.5
Total	3837.5

CEMENT ACCT.

	Bbbs.
On hand Jan. 1, 1919	none
Bought in 1919, by car, 573 bbbs.	
locally, 94.75 bbbs.	667.75
	667.75
	Sacks
Used in 1919—	
Extension and crosswalk work ...	986
New paving	190
Paving repairs	147
Paving water ditch, S. State st. ..	422
City Engineer's department	81
Inlets, 8; storm sewers, 21	29
Culverts	7
Abutment, Fuller and Glen ave.	41

Cement floors, city yard	173
Boulevard Drive sewer	36
Setting tar and oil tanks	70
Sidewalk repairs	11
New sidewalk	21
Sold to contractors, by order of board of Public Works	450

Total used: sacks, 2664; or bbls. 666.0

On hand Jan. 1, 1920 1.75
OUTSIDE WORK BY STR. DEPT.

Bills against public service corporations, water department, sewer contractors and others; also labor done and material sold by order of Board of Public Works (collected or in course of collection through the City Clerk's office).

Water Department, repairs, pav, etc.	\$ 214.63
Washtenaw Gas Co., repairs paving, etc	44.04
Gott. Raiser, repairs paving etc	7.76
Braemk & Martin, repairs, paving, etc.	5.94
Weinman-Geisendorfer Co., repairs paving, etc	13.61
University of Michigan, repairs paving, etc	13.18
Hertler Bros, repairs, paving etc	8.07
Anne Kurtz Est. repairs paving etc.	2.55
County Road Commissioners, pitch	4.12
Schumacher & Backus, paving repairs	11.94
F. C. Parker, cutting weeds	4.00
Burke Est. cutting weeds .....	.75
C. Jno. Walz (Oitley Est.) cutting weeds	1.80
W. Hochrein, gravel, filling hole	1.50
Michigan Union, calcium chloride	24.00
C. Lutz, plank	6.96
Paid, iron sold by Street commissioner	23.50
Paid, brick and paper sold by Street Commissioner	8.00
Paid by Jno. Shadford, repairs washout	7.78
Paid by U. of M. tarring drive ways	47.86
Paid by A. R. Cole, repairs cement mixed	8.32
Paid by Hoover Est. cutting weeds	1.00
Paid by F. J. Davidson, cement culvert, driveway	17.87
Paid by Wm. Biggs, cement culvert, driveway	18.22
Paid by A. A. Dairy, brick	98.86
Paid by U. of M oiling driveways	98.91
Paid by Thos. Hession, cement	26.34
Paid by A. A. R. R. sidewalk William st (assessed)	48.65
Paid by Letchfield & Stewart, cement	190.49
Paid by Jno. Koch Co., (Inc.) cement	46.55
Paid by E. T. Reberg, cement	10.41
Paid by D. U. R., oiling streets (tracks)	74.20
Paid by T. Hession, jointer trowel	7.00
Paid by Water Dept. repairs	

paving S State water ditch ..	796.21
Paid by H. S. Athletic Association, grading	7.75

Work for sewer, etc., contractors (bills in city engineer's department; collected or to be collected when final estimates given for improvement)—

A. W. Baldwin, E. Wash-t'n & 14th st.	\$97.18
J. C. Stewart, W. Hoover ave.	41.85
Eddy & Son, Jackson ave.	4.44
Eddy & Son, Huron and 9th	6.57
Eddy & Son, 5th & Catherine, Thayer and Washington	38.02
W. J. Clancy, piling brick from paving, \$10.92, pitch, \$32.96....	43.98
Letchfield & Stewart, piling brick from paving	15.83

\$247.87

Total\$2150.68

Respectfully submitted.

A. J. PAUL,
 Street Commissioner.

INVENTORY

Street Department, 1919

1 Kelly-Springfield scarifier ..	\$4300 00
1 Flgin Motor sweeper	3500 00
1 Foote cement mixer	600 00
1 oiling machine	600 00
1 gasoline pump	385 00
2 tar and oil tanks and boiler ..	1500.00
1 Ford runabout	294.00
1 road scraper	250.00
1 road scraper	100 00
1 20th century grader	100.00
1 Studebaker sprinkler	150 00
2 dump wagons	150 00
1 platform scale	500 00
2 horse-drawn sweepers	200 00
1 team horses	150 00
3 tons hay	75 00
80 bu. oats	63 00
1 double harness	20 00
1 pair bob sleighs	20 00
1 pair horse blankets	10.00
18 snow plows	80.00
2 patent snow plows	40 00
1 steel snow plow	20 00
1 tar tank on wheels (small)	35.00
1 large tar tank on wheels	50 00
2 street drags	20.00
1 street drag	10 00
3 M. sweeper brooms filled	66.00
1 bdl. bickory stunts	30.00
3 two-wheeled carts	50 00
1 tool box on wheels	10 00
1 slio scrauer	5 00
4 slip scrapers	20 00
1 5-ft Milwaukee cement mixer	50 00
1 lot of 1-inch pipe	25 00
1 tar kettle	10 00
1 two-wheeled scraper	20 00
1 diaphragm pump	10 00
1 50 gal oil tank	10 00
2 wagons	30 00
1 broom filler	5 00
4 wheelbarrows	20 00
2 log chains	4 00
1 pair stable blankets	2.00

3 hammers	3.00	700 ft. plank for sewer work ..	75.00
1 stencil and alphabet	1.00	48 rolls roofing paper @ 3.40..	75.00
4 pails	1.00	7 sacks cement, 1.75 bbl. @ \$2.45	4.29
2 oil cans	1.00	2 18 in. elbows @ \$7.40	14.80
1 two-horse mower	5.00	22 18 in. tile @ .925	20.35
70 ft. inch hose	10.00	1 20 in. L	8.88
1 set cement tools	4.00	18 8 in. Y and T @ 1.035	18.63
31 sewer jacks	30.00	10 12 in Y and T @ \$1.019	10.19
1 rooter	5.00	6 12 in. tile @ .4995	3.00
1 stencil for concrete	2.00	3 12 in. L @ \$1.998	5.99
5 barley forks	5.00	50 ft. old curbing	5.00
50 ft. fire hose	1.00	129 bbl. calcium chloride @	
1 grindstone	1.00	\$3.934	508.13
2 hoes	1.00		
2 mauls	3.00		\$1182.74
5 snow shovels	5.00		
1 spade	1.00	Total	\$14982.24
2 old trowels .....	.25	Respectfully submitted	
1 ea. steel trowel, creaser and edger	1.00	A. J. PAUL	
1 cement trowler and finisher ..	14.00	Street Commissioner	
3 hatchets	2.00	Moved by Ald. Donnelly, that	
2 ladders	2.50	the Mayor and City Clerk be in-	
2 sand screens	2.00	structed to execute quit claim deed	
1 cross cut saw	3.00	to University of Michigan for that	
1 bolt cutter	1.00	portion of Observatory street and	
1 brace and bits	2.00	Catherine street ordered closed by	
15 red lanterns	9.00	Council July 7, 1919, when deed	
3 levels	1.00	is approved by City Attorney.	
16 grub hoes	6.00	Adopted by following vote:	
5 scythes and handles	5.00	Yeas, Ald. Sugden, Mayer, Prochnow,	
2 grub hoes	2.00	Henderson, Donnelly, Spathelf,	
2 tampers	2.00	MacGregor, Lutz, 8. Nays, none.	
12 picks	12.75	By Ald. Mayer:	
3 hand saws	3.00	Resolved, By the Common Council	
2 mortar boxes	2.00	of Ann Arbor, that the time	
3 scoop shovels	3.00	wherein the Treasurer of the City	
1 short handled shovel	1.00	of Ann Arbor should make his re-	
12 street shovels	12.00	turn to the County Treasurer of	
3 raving hammers	3.00	the County of Washtenaw for the	
7 crowbars	7.00	taxes assessed for the year 1919 be	
4 axes	8.00	and the same is hereby extended to	
2 Knowell street scrapers	6.00	a d until the 28th day of February	
2 hose nozzels	2.00	A. D. 1920.	
3 rakes	3.00	Adopted by the following vote:	
3 pair rubber boots	9.00	Yeas, Ald. Sugden, Mayer, Prochnow,	
1 wagon jack	5.00	Henderson, Donnelly, Spathelf,	
2 post hole diggers	1.00	MacGregor, Lutz, 8. Nays, none.	
2 pitch forks	1.00	On motion of Ald. Donnelly,	
		Council adjourned.	
	\$13799.50	ISAAC G. REYNOLDS,	
		City Clerk.	

INVENTORY

Building Material

3 bbl. K. C. tarvia	30.40
3640 No. 1 paving brick @ 30.46	110.88
18000 second hand pavg. blocks	180.00
6 bbl. pitch @ \$4.00	24.00