Council chamber, Ann Arbor, Mich., Jan. 20, 1913. Regular session.

Meeting called to order by the president. Present: Ald, Schmid, Koernke, Flynn, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Rash, Lutz, Pres. Mills, 11. Absent: Ald. Hochrein, Manwaring, Murray, Sherk, 4. Minutes of previous meeting approved.

' Communications.

From the Mayor-

Ann Arbor, Mich., Jan. 18, 1913. The Honorable Common Council: Gentlemen-According to the special water committee's report, submitted to you at your last regular meeting, there appears to be an unlimited supply of good spring water on the Steere property, on which the city has an option. I believe that our citizens should have the benefit of this good water, either by it being used in the present system, or in another one. I would therefor recommend that the council request the Ann Arbor Water company to furnish this water to our citizens, and if satisfactory arrangements cannot be made with the company, then I believe that we should take steps toward building a plant of our own. Our people should have the benefit of all the good pure spring water that can be secured, and I believe that the water on the Steere property should be furnished to our people, rather than to allow it to run to waste in the county ditches. would therefore recommend that the special water committee confer with the water company and ascertain the best terms that they will agree to, so that this water will be furnished to our people.

Respectfully submitted, William

Walz, Mayor.

Moved by Ald. Lindenschmitt, that the matter be referred to the special water committee. Adopted.

Petitions.

Petition of Horace Barnard, et al, for arc street light on Jackson av. to city limits, received and referred to

lighting committee.

Deed from Mr. and Mrs. L. D. Carr to city, conveying right to construct a through a certain sanitary sewerpiece of land in Ferdon addition, presented by the city attorney as correct. Moved by Ald. Lutz, that deed be accepted. Adopted as follows: Yeas, Ald. Schmid, Koernke, Flynn, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Rash, Lutz, Pres. Mills, 11. Nays, none.

Committee Reports, FINANCE REPORT. Ann Arbor, Mich., Jan. 16, 1913.

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

ROSS GRANGER, City Clerk

	rk
Fire Fund. Chas. J. Andrews, salary\$	A1 60
Elloppa Williams salary	38.50
Geo. Hoelzle, salary	38.50
Ralph Edwards, salary	38.50
Geo. Hoelzle, salary Ralph Edwards, salary Henry McLaren, salary Fred Jolly, salary	36.50
Fred Jolly, salary	36:50
Jacob Gwillier, Salary	35.00
Arthur Clark, salary	35.00
Max Wittlinger, salary	35.00
Harley Wise, salary	35.00
Martin Noll, salary	35.00
Geo. Isbel, salary	35.00
Mat. Heininger, salary	35.00
John Behr, salary James Smith, salary	35.00
James Smith, salary	35.00
Frank Markey, salary	35.00
Thomas Sharp, salary	30.00
Clyde Carpenter, salary	30.00
Chas. Carroll, salar	23.00
Frank Kapp, salary	
Total salaries for 1-2 month of	
January Co	386 1 <i>6</i>
January	300.10
Theo. C. Apfel, salary\$	41 68
Thos. O'Brien, salary	40.00
Wm. J. Aprill, salary	35.00
Gustave Meyer, salary	35.00
Gustave Meyer, salary	35.00
Rex Eurnett, salary	35.00
Edw. Kuhn, salary	35.00
Reuben Armbruster, salary	35.00
Total salaries for 1-2 month of January	204 22
January\$	291.66
M C Pyon solony	
M. C. Ryan, Salary	20.00
Bridge Culvert & Creewell Eune	\$30.00
Wm. Clark, labor	\$30.00 L \$22.75
Bridge, Culvert & Crosswalk Fund Wm. Clark, labor	l. \$22.75
John Dalgliesh, labor	1. \$22,75 1.50 4.75
John Dalgliesh, labor	1. \$22,75 1.50 4.75
John Dalgliesh, labor Sam. Kalmbach, labor Matt. Luippold, labor G. Mack, labor	\$22,75 1.50 4.75 5.00 20,25
John Dalgliesh, labor Sam. Kalmbach, labor Matt. Luippold, labor G. Mack, labor Geo. Miley, labor	\$22,75 1.50 4.75 5.00 20,25 8.00
John Dalgliesh, labor Sam. Kalmbach, labor Matt. Luippold, labor G. Mack, labor Geo. Miley, labor Ceo. Roberts, labor	\$22.75 1.50 4.75 5.00 20.25 8.00 5.75
John Dalgliesh, labor Sam. Kalmbach, labor Matt. Luippold, labor G. Mack, labor Geo. Miley, labor Geo. Roberts, labor Geo. Schaible, labor	\$22.75 1.50 4.75 5.00 20.25 8.00 5.75 6.50
John Dalgliesh, labor Sam. Kalmbach, labor Matt. Luippold, labor G. Mack, labor Geo. Miley, labor Geo. Roberts, labor Geo. Schaible, labor dam Stoll, labor	\$22.75 1.50 4.75 5.00 20.25 8.00 5.75 6.50 15.25
John Dalgliesh, labor Sam. Kalmbach, labor Matt. Luippold, labor G. Mack, labor G. Miley, labor Geo. Roberts, labor Geo. Schaible, labor Jdam Stoll, labor Jos. Wallacker, labor and cart	\$22.75 1.50 4.75 5.00 20.25 8.00 5.75 6.50 15.25 11.38
John Dalgliesh, labor Sam. Kalmbach, labor Matt. Luippold, labor G. Mack, labor Geo. Miley, labor Geo. Roberts, labor Geo. Schaible, labor Jdam Stoll, labor Jos. Wallacker, labor and cart Wm. Wild, labor G. C. Bargdill, snow plowing	\$22.75 1.50 4.75 5.00 20.25 8.00 5.75 6.50 15.25 11.38 1.00
John Dalgliesh, labor Sam. Kalmbach, labor Matt. Luippold, labor G. Mack, labor Geo. Miley, labor Geo. Roberts, labor Geo. Schaible, labor Jos. Wallacker, labor and cart Wm. Wild, labor C. Bargdill, snow plowing Koch Bros., snow plowing	\$22.75 1.50 4.75 5.00 20.25 8.00 5.75 6.50 15.25 11.38
John Dalgliesh, labor Sam. Kalmbach, labor Matt. Luippold, labor G. Mack, labor Geo. Miley, labor Geo. Roberts, labor Geo. Schaible, labor Jos. Wallacker, labor and cart Wm. Wild, labor C. Bargdill, snow plowing Koch Bros., snow plowing Mrs. Herman Marquardt, snow	$\begin{array}{c} \textbf{1.} \\ \$22.75 \\ 1.50 \\ 4.75 \\ 5.00 \\ 20.25 \\ 8.00 \\ 5.75 \\ 6.50 \\ 15.25 \\ 11.38 \\ 1.00 \\ 6.50 \\ \end{array}$
John Dalgliesh, labor Sam. Kalmbach, labor Matt. Luippold, labor G. Mack, labor Geo. Miley, labor Geo. Roberts, labor Geo. Schaible, labor Jos. Wallacker, labor and cart Wm. Wild, labor G. Bargdill, snow plowing F. G. Bros., snow plowing Froch Bros., snow plowing Froch Bros., snow plowing Froch Bros., snow plowing Froch Bros., snow plowing	1. \$22.75 1.50 4.75 5.00 20.25 8.00 5.75 6.50 15.25 11.38 1.00 6.50 10.00
John Dalgliesh, labor Sam. Kalmbach, labor Matt. Luippold, labor G. Mack, labor Geo. Miley, labor Geo. Roberts, labor Geo. Schaible, labor Jos. Wallacker, labor and cart Wm. Wild, labor G. Bargdill, snow plowing Koch Bros. snow plowing Fis. Herman Marquardt, snow plowing G. L. Mullison, snow plowing	$\begin{array}{c} \textbf{I.} \\ \$22.75 \\ 1.50 \\ 4.75 \\ 5.00 \\ 20.25 \\ 8.00 \\ 5.75 \\ 6.50 \\ 15.25 \\ 11.38 \\ 1.00 \\ 6.50 \\ 10.00 \\ 10.00 \\ \end{array}$
John Dalgliesh, labor Sam. Kalmbach, labor Matt. Luippold, labor G. Mack, labor G. Miley, labor Geo. Roberts, labor Geo. Schaible, labor Jos. Wallacker, labor and cart Wm. Wild, labor C. Bargdill, snow plowing Hoch Bros. snow plowing Mrs. Herman Marquardt, snow plowing G. L. Mullison, snow plowing E. R. Schaffer, snow plowing	$\begin{array}{c} \textbf{I.} \\ \$22.75 \\ 1.50 \\ 4.75 \\ 5.00 \\ 20.25 \\ 8.00 \\ 5.75 \\ 6.50 \\ 15.25 \\ 11.38 \\ 1.00 \\ 6.50 \\ 10.00 \\ 10.00 \\ 14.00 \\ 14.00 \\ \end{array}$
John Dalgliesh, labor Sam. Kalmbach, labor Matt. Luippold, labor G. Mack, labor G. Mack, labor G. Miley, labor Geo. Roberts, labor Geo. Schaible, labor Jos. Wallacker, labor and cart Wm. Wild, labor C. Bargdill, snow plowing Koch Bros., snow plowing Herman Marquardt, snow plowing C. L. Mullison, snow plowing E. R. Schaffer, snow plowing C. J. Snyder & Sons, snow plowing	$\begin{array}{c} \textbf{1.} \\ \textbf{\$} \textbf{\$} \textbf{\$} \textbf{22.75} \\ \textbf{1.50} \\ \textbf{4.75} \\ \textbf{5.00} \\ \textbf{20.25} \\ \textbf{8.00} \\ \textbf{5.75} \\ \textbf{6.50} \\ \textbf{15.25} \\ \textbf{11.38} \\ \textbf{1.00} \\ \textbf{6.50} \\ \textbf{10.00} \\ \textbf{10.00} \\ \textbf{14.00} \\ \textbf{10.00} \\ $
John Dalgliesh, labor Sam. Kalmbach, labor Matt. Luippold, labor G. Mack, labor G. Mack, labor G. Miley, labor Geo. Roberts, labor Geo. Schaible, labor Jos. Wallacker, labor and cart Wm. Wild, labor G. Bargdill, snow plowing F. C. Bargdill, snow plowing F. Herman Marquardt, snow plowing G. L. Mullison, snow plowing E. R. Schaffer, snow plowing G. J. Snyder & Sons, snow plowing G. W. Weeks, snow plowing G. W. Weeks, snow plowing	$\begin{array}{c} \textbf{1.} \\ \textbf{\$} \textbf{\$} \textbf{\$} \textbf{22.75} \\ \textbf{1.50} \\ \textbf{4.75} \\ \textbf{5.00} \\ \textbf{20.25} \\ \textbf{8.00} \\ \textbf{5.75} \\ \textbf{6.50} \\ \textbf{15.25} \\ \textbf{11.38} \\ \textbf{1.00} \\ \textbf{6.50} \\ \textbf{10.00} \\ \textbf{10.00} \\ \textbf{14.00} \\ \textbf{10.00} \\ \textbf{5.00} \\ \end{array}$
John Dalgliesh, labor Sam. Kalmbach, labor Matt. Luippold, labor G. Mack, labor G. Mack, labor G. Miley, labor Geo. Roberts, labor Geo. Schaible, labor Jos. Wallacker, labor and cart Wm. Wild, labor G. Bargdill, snow plowing Foch Bros., snow plowing Mrs. Herman Marquardt, snow plowing G. L. Mullison, snow plowing E. R. Schaffer, snow plowing G. J. Snyder & Sons, snow plowing G. W. Weeks, snow plowing M. M. Wheelock, snow plowing	$\begin{array}{c} 1.\\ \$22.75\\ 1.50\\ 4.75\\ 5.00\\ 20.25\\ 8.00\\ 5.75\\ 6.50\\ 15.25\\ 11.38\\ 1.00\\ 6.50\\ 10.00\\ 10.00\\ 14.00\\ 14.00\\ 5.00\\ 10.00\\ 10.00\\ \end{array}$
John Dalgliesh, labor Sam. Kalmbach, labor Matt. Luippold, labor G. Mack, labor G. Mack, labor G. Miley, labor Geo. Roberts, labor Geo. Schaible, labor Jos. Wallacker, labor and cart Wm. Wild, labor G. Bargdill, snow plowing F. C. Bargdill, snow plowing F. Herman Marquardt, snow plowing G. L. Mullison, snow plowing E. R. Schaffer, snow plowing G. J. Snyder & Sons, snow plowing G. W. Weeks, snow plowing G. W. Weeks, snow plowing	$\begin{array}{c} \textbf{1.} \\ \$22.75 \\ 1.50 \\ 4.75 \\ 5.00 \\ 20.25 \\ 8.00 \\ 5.75 \\ 6.50 \\ 15.25 \\ 11.38 \\ 1.00 \\ 6.50 \\ 10.00 \\ 14.00 \\ 10.00 \\ 10.00 \\ 5.00 \\ 10.00 \\ 5.00 \\ \end{array}$

150.	
Mich. Cent. R. R. Co., freight 3.35	Bridge, culvert and crosswalk fund 2,128.09 School tax fund 30,000.00
Bridge, culvert and crosswalk fund total\$185.98	Condition of City Funds on the First Day of January, 1913.
Recapitulation.	On Hand—
Fire'fund\$686.16	City comptony fund\$2,812.46
Police	City cemetery fund 578.87 Dog license fund 498.01
Contingent 30.00 Bridge, culvert and crosswalk 185.98	ate dog tax fund
Bridge, curvert and crosswark 166.66	Fire department fund 1,940.27
Total\$1,193.80	Poor fund 674.09
Ann Arbor, Mich., Jan. 20, 1913.	Police fund
To the Honorable, the. Common Council:	Street fund63
Gentlemen-Your Finance committee have	Water fund 4,171.73
reviewed the foregoing report of the city	Park fund
clerk. Warrants for salaries were drawn	Street Light fund 4,555.96
Jan. 16, 1913. We recommend that same be	Sidewalk fund 19.06
approved and that warrants be ordered	Bridge, Culvert and Crosswalk fund 405.86
drawn for the foregoing accounts.	State tax fund 28,304.97
Geo. Lutz, E. E. Schmid, Finance Commit-	County tax fund
tee.	School Tx fund
Ald. Lutz moved the adoption of	Specied Tax Tung 194.20
the report. Adopted as follows: Yeas,	Total\$111,207.75
Ald. Schmid, Koernke, Flynn, Ram-	Overdrawn—
say, Lindenschmitt, Schultz, Proch-	Sidewalk Building fund \$ 292.18
now, Pipp, Rash, Lutz, Pres. Mills,	Uncollected City Tax fund
11. Nays, none.	Delinquent Tax fund 3.322.31
(Enter Ald. Sherk.)	Sprinkling District No. 11 74.66
Officers' Reports.	Sprinkling District No. 13 88.83
CITY FUNDS—Treasurer's Report for Month Ending December 31st—	motol 60,000,00
Cemetery Fund—	Total\$8,639.62
Burial permits \$6.00	Warrants Outstanding— Contingent fund
Care of lots 1.00	Fire Department fund
	Police fund
Total\$7.00	Park fund
Building Sidewalk Fund—	ewalk fund 12.45
Taxes collected\$171.89	rewalk fund 12.45 ridge, Culvert and Crosswalk fund 403.29
Building Sidewalk Fund— Taxes collected\$171.89 Sidewalk construction49.60	rewalk fund
Taxes collected \$171.89 Sidewalk construction 49.60 — —	rewalk fund
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund—	Money Received— Contingent Fund— 12.45 12.
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82	CITY FUNDS—Treasurer's Report For Month Ending Dec. 31, 1912— Contingent Fund— City scales
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Sprinkling District No. 11—	CITY FUNDS—Treasurer's Report For Month Ending Dec. 31, 1912— Money Received— Contingent Fund— City scales
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Sprinkling District No. 11— \$54.00	CITY FUNDS—Treasurer's Report For Month Ending Dec. 31, 1912— Money Received— Contingent Fund— City scales \$14.00 Dray and hack licenses \$22.00 Peddlers' licenses \$9.00
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Sprinkling District No. 11— \$54.00 Sprinkling District No. 12— \$54.00	rewalk fund
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Sprinkling District No. 11— \$54.00 Sprinkling District No. 12— \$225.51	ewalk fund
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Sprinkling District No. 11— \$54.00 Sprinkling District No. 12— \$54.00	rewalk fund
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Sprinkling District No. 11— Taxes collected \$54.00 Sprinkling District No. 12— Taxes collected \$225.51 Uncollected City Tax Fund— \$15,347.00 State Tax Fund— \$15,347.00	ewalk fund
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Sprinkling District No. 11— \$54.00 Sprinkling District No. 12— \$225.51 Taxes collected \$225.51 Uncollected City Tax Fund— \$15,347.00 State Tax Fund— \$28,304.97	rewalk fund 12.45 Fidge, Culvert and Crosswalk fund 403.29 CITY FUNDS—Treasurer's Report For Month Ending Dec. 31, 1912— Money Received— Contingent Fund— City scales \$14.00 Dray and hack licenses 22.00 Peddlers' licenses 9.00 Pool licenses 4.00 Bowling licenses 30.00 Theater licenses 80.00 Fees on taxes 708.54 Interest on Bank bal 108.70
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Sprinkling District No. 11— Taxes collected \$54.00 Sprinkling District No. 12— *225.51 Taxes collected \$225.51 Uncollected City Tax Fund— *15,347.00 State Tax Fund— \$28,304.97 County Tax Fund— \$28,304.97	12.45 12.4
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Taxes collected \$54.00 Sprinkling District No. 12— \$225.51 Taxes collected \$225.51 Uncollected City Tax Fund— \$15,347.00 State Tax Fund— \$28,304.97 County Tax Fund— Taxes collected \$11,988.00	12.45 12.4
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Taxes collected \$54.00 Sprinkling District No. 12— *225.51 Taxes collected \$225.51 Uncollected City Tax Fund— *15,347.00 State Tax Fund— *28,304.97 County Tax Fund— *28,304.97 Taxes collected \$11,988.00 School Tax Fund— *11,988.00	rewalk fund 12.45 idge, Culvert and Crosswalk fund 403.29 CITY FUNDS—Treasurer's Report For Month Ending Dec. 31, 1912— Money Received— Contingent Fund— City scales \$14.00 Dray and hack licenses 22.00 Peddlers' licenses 9.00 Pool licenses 4.00 Bowling licenses 30.00 Theater licenses 80.00 Fees on taxes 708.54 Interest on Bank bal 108.70 Total \$976.24 B. and C. W. Fund— Transfer from Lab. Pay. 20. \$1,000.00 Driveway construction 83.69
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Taxes collected \$54.00 Sprinkling District No. 11— Taxes collected Taxes collected \$225.51 Uncollected City Tax Fund— \$15,347.00 State Tax Fund— \$28,304.97 County Tax Fund— \$11,988.00 School Tax Fund— \$80,900.00 Taxes collected \$80,900.00	12.45 12.4
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Taxes collected \$54.00 Sprinkling District No. 11— Taxes collected Taxes collected \$225.51 Uncollected City Tax Fund— \$15,347.00 State Tax Fund— \$28,304.97 County Tax Fund— \$11,988.00 School Tax Fund— \$80,900.00 Total \$143,085.22	12.45 12.4
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Taxes collected \$54.00 Sprinkling District No. 11— Taxes collected Taxes collected \$225.51 Uncollected City Tax Fund— \$15,347.00 State Tax Fund— \$28,304.97 County Tax Fund— \$11,988.00 School Tax Fund— \$80,900.00 Taxes collected \$80,900.00	12.45 12.4
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Taxes collected \$54.00 Sprinkling District No. 11— \$225.51 Taxes collected \$225.51 Uncollected City Tax Fund— \$15,347.00 State Tax Fund— \$28,304.97 County Tax Fund— \$11,988.00 School Tax Fund— \$80,900.00 Total \$80,900.00 Total \$143,085.22 Overdraft 1,717.77	12.45 12.4
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Taxes collected \$54.00 Sprinkling District No. 11— \$54.00 Sprinkling District No. 12— \$225.51 Taxes collected \$225.51 Uncollected City Tax Fund— \$15,347.00 State Tax Fund— \$28,304.97 County Tax Fund— \$11,988.00 School Tax Fund— \$80,900.00 Total \$80,900.00 Total \$143,085.22 Overdraft \$141,367.45	12.45 12.4
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Taxes collected \$54.00 Sprinkling District No. 11— \$225.51 Taxes collected \$225.51 Uncollected City Tax Fund— \$15,347.00 State Tax Fund— \$28,304.97 County Tax Fund— \$11,988.00 School Tax Fund— \$80,900.00 Total \$80,900.00 Total \$143,085.22 Overdraft 1,717.77	12.45 12.4
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Taxes collected \$54.00 Sprinkling District No. 12— \$225.51 Taxes collected \$225.51 Uncollected City Tax Fund— \$15,347.00 State Tax Fund— \$28,304.97 County Tax Fund— \$28,304.97 County Tax Fund— \$11,988.00 School Tax Fund— \$80,900.00 Total \$80,900.00 Total \$143,085.22 Overdraft \$141,367.45 Warrants paid 38,799.32	12.45 12.4
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Taxes collected \$54.00 Sprinkling District No. 12— \$225.51 Taxes collected \$225.51 Uncollected City Tax Fund— \$15,347.00 State Tax Fund— \$28,304.97 County Tax Fund— \$28,304.97 County Tax Fund— \$36,000 Taxes collected \$11,988.00 School Tax Fund— \$36,000.00 Total \$143,085.22 Overdraft \$141,367.45 Warrants paid 38,799.32 On liand Jan. 1st \$102,568.13 Warrants Paid—	12.45 12.4
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Taxes collected \$54.00 Sprinkling District No. 12— *225.51 Taxes collected \$225.51 Uncollected City Tax Fund— *15,347.00 State Tax Fund— *28,304.97 County Tax Fund— *28,304.97 County Tax Fund— *31,988.00 School Tax Fund— *30,900.00 Total \$80,900.00 Total \$143,085.22 Overdraft 1,717.77 Balance \$141,367.45 Warrants paid 38,799.32 On liand Jan. 1st \$102,568.13 Warrants Paid— *1,874.82	12.45 12.4
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Taxes collected \$54.00 Sprinkling District No. 11— \$34.00 Taxes collected \$225.51 Uncollected City Tax Fund— \$15,347.00 State Tax Fund— \$28,304.97 County Tax Fund— \$11,988.00 School Tax Fund— \$80,900.00 Total \$80,900.00 Total \$143,085.22 Overdraft 1,717.77 Balance \$141,367.45 Warrants paid 38,799.32 On liand Jan. 1st \$102,568.13 Warrants Paid— Contingent fund \$1,874.82 City Cemetery fund 80.00	12.45 12.4
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Taxes collected \$54.00 Sprinkling District No. 11— \$54.00 Sprinkling District No. 12— Taxes collected \$225.51 Uncollected City Tax Fund— \$15,347.00 State Tax Fund— \$28,304.97 County Tax Fund— \$11,988.00 School Tax Fund— \$143,085.22 Overdraft \$143,085.22 Overdraft \$141,367.45 Warrants paid 38,799.32 On liand Jan. 1st \$102,568.13 Warrants Paid— Contingent fund \$1,874.82 City Cemetery fund 80.00 Dog license fund 22.70	12.45 12.4
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Taxes collected \$54.00 Sprinkling District No. 12— \$225.51 Taxes collected \$225.51 Uncollected City Tax Fund— \$15,347.00 State Tax Fund— \$28,304.97 County Tax Fund— \$28,304.97 County Tax Fund— \$11,988.00 School Tax Fund— \$80,900.00 Total \$80,900.00 Total \$143,085.22 Overdraft \$17,77.77 Balance \$141,367.45 Warrants paid 38,799.32 On liand Jan. 1st \$102,568.13 Warrants Paid— \$0.00 Cotty Cemetery fund 80.00 Poor fund 1890.06 Poor fund 144.72	12.45 12.4
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Taxes collected \$54.00 Sprinkling District No. 12— \$225.51 Taxes collected \$225.51 Uncollected City Tax Fund— \$15,347.00 State Tax Fund— \$28,304.97 County Tax Fund— \$28,304.97 County Tax Fund— \$11,988.00 School Tax Fund— \$80,900.00 Total \$80,900.00 Total \$143,085.22 Overdraft 1,717.77 Balance \$141,367.45 Warrants paid 38,799.32 On liand Jan. 1st \$102,568.13 Warrants Paid— \$0.00 Contingent fund \$2.70 Fire department fund 1.890.06 Poor fund 144.72 Police fund 688.43	12.45 12.4
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Taxes collected \$54.00 Sprinkling District No. 12— \$225.51 Taxes collected \$225.51 Uncollected City Tax Fund— \$15,347.00 State Tax Fund— \$28,304.97 County Tax Fund— \$28,304.97 County Tax Fund— \$11,988.00 School Tax Fund— \$80,900.00 Total \$80,900.00 Total \$143,085.22 Overdraft \$177.77 Balance \$141,367.45 Warrants paid 38,799.32 On liand Jan. 1st \$102,568.13 Warrants Paid— \$1,874.82 City Cemetery fund 80.00 Dog license fund 22.70 Fire department fund 1.890.06 Poor fund 144.72 Police fund 688.43 Park fund 386.98	12.45 12.4
Taxes collected \$171.89 Sidewalk construction 49.60 Total \$221.49 Rejected Tax Fund— \$65.82 Taxes collected \$54.00 Sprinkling District No. 12— \$225.51 Taxes collected \$225.51 Uncollected City Tax Fund— \$15,347.00 State Tax Fund— \$28,304.97 County Tax Fund— \$28,304.97 County Tax Fund— \$11,988.00 School Tax Fund— \$80,900.00 Total \$80,900.00 Total \$143,085.22 Overdraft 1,717.77 Balance \$141,367.45 Warrants paid 38,799.32 On liand Jan. 1st \$102,568.13 Warrants Paid— \$0.00 Contingent fund \$2.70 Fire department fund 1.890.06 Poor fund 144.72 Police fund 688.43	12.45 12.4

COMMON COUNCIL	-JANUARY 20, 1913. 491.
Tax acct. paving No. 5, taxes	collected 18.06
collected	Tax acct. sewer No. 31, taxes collected 9.28
collected 26.12	Tax acct. sewer No. 32, taxes collected 12.02
Tax acct. paving No. 8, taxes collected	Tax acct. sewer No. 34, taxes
Tax acct. paving No. 9, taxes collected 29.36	collected
Tax acct. paving No. 10, taxes	collected 29.61
Tax acct. paving No. 12, taxes	Tax acct. sewer No. 38, taxes collected 60.08
collected	Tax acct. sewer No. 39, taxes collected 57.73
collected	Tax acct. sewer No. 40, taxes
collected 39.31	collected
Tax acct. paving No. 16, taxes collected	collected
Tax acct. paving No. 17, taxes collected	collected 61.90
Tax acct. paying No. 18, taxes	Tax acct. sewer No. 46, taxes collected 5.12
Tax acct paying No. 24, taxes	Total \$ 569.94
collected	Overdraft Dec. 1st 4,382.06
collected	Balance\$3,\$12.12
Tax acct. paving No. 21, taxes collected	Warrants paid 521.88
Tax acct. paving No. 25, taxes collected	Overdraft Jan. 1st\$4,334.00
	Warrants Paid— Labor acct. lateral sewer No. 50\$521.88
Total	Total\$521.88
Wetal \$\$16,322.02	Condition of Sewer Funds on the First Day of January ,1913—
Warrants paid 1,063.02	On Hand— Tax acct. lateral sewer No. 35\$ 212.66
On hand Jan. 1st\$15,259.00	Tax acct. lateral sewer No. 37 40.99
Warrants Paid— Labor acet payement No. 20\$1,059.39	Tax acct. lateral sewer No. 38 40.44 Tax acct. lateral sewer No. 41 410.06
Labor acct. pavement No. 27 3.63 Condition of Paving Funds on the First	Tax acct. lateral sewer No. 42 165.29 Tax acct. lateral sewer No. 43 230.47
Day of January, 1913—	Tax acct. lateral sewer No. 44 139.99
On Hand— They aget payement No. 5\$ 814.16	Tax acct. lateral sewer No. 45 207.41 Tax acct. lateral sewer No. 46 212.62
They need nevement No. 0	Tax acct. lateral sewer No. 47 187.98 Tax acct. lateral sewer No. 50 2.25
Tax acct. pavement No. 8 466.57	Labor acct. lateral sewer No. 49 57.11
Tax acct. pavement No. 10 787.70	Labor acct. lateral sewer No. 50 1,081.67
Tax acct. pavement No. 13	Total \$2,988.94
Tax acct pavement No. 15 1,285.63	Overdrawn— Tax acct. lateral sewer No. 27\$ 84.03
Tax acct. pavement No. 16	Tax acct. lateral sewer No. 29 16.66 Tax acct. lateral sewer No. 30 82.20
They neet payement No. 18 2.118.10	Tax acct. lateral sewer No. 31 60.96
Tax acct. pavement No. 21 2,323.14	Tax acct. lateral sewer No. 32 1.608.94 Tax acct. lateral sewer No. 33 88.25
Tax acct. pavement No. 22 580.98	Tax acct. lateral sewer No. 34 3,048.89 Tax acct. lateral sewer No. 36 50.46
Tax acct. pavement No. 24	Tax acct. lateral sewer No. 39 132.31
Labor acet payement No. 20 705.13	Tax acct. lateral sewer No. 40 144.95 Labor acct. lateral sewer No. 42 170.03
Tax acct. pavement No. 21	Labor acct. lateral sewer No. 43 161.63 Labor acct. lateral sewer No. 44 204.26
Tax acct payement No. 9 369.54	Labor acct. lateral sewer No. 45 247.32
Tax acct. pavement No. 20 83.91	Labor acct. lateral sewer No. 46 538.53 Labor acct. lateral sewer No. 47 532.71
Warrants Outstanding— Tax acet payement No. 24\$6.64	Labor acct. lateral sewer No. 48 150.81
SEWER FUNDS—Treasurer's Report for	Total\$7,322.94
Month Ending Dec. 31st— Money Received—	Recapitulation— City funds on hand\$102,568.13
Tax acct. sewer No. 27. taxes	Paving districts on hand 15,259.00
Tax acct. sewer No. 30 taxes	Total\$117,827.13

Sewer districts overdrawn\$113,493.13 Respectfully submitted: E. G. MANN, City Treasurer.

4,334.00 Bank Certificate-State Savings Bank, Ann Arbor, Mich., Jan. 2, 1913. To whom this may concern: This is to certify that there was on deposit, to the credit of E. G. Mann. City Treasurer, at the close of business on Dec. 31st, 1912, the sum of \$77,745.12. Respectfully, C. J. WALZ, Cashier.

Report of the City Clerk and Comptroller.

Condition of Jan. 1st, 1913.	Liabilities Contracted	Available.	Deficit.
Bridge, Culvert and Crosswalk \$ 2.57 Contingent 2,256.11 City Cemetery 578.87 Dog License 498.01 State Dog Tax 100.00 Fire Department 1,939.70 Poor 674.09 Police 3,771.27 Street 63 Water 4,171.73 Park 237.80 Street Lighting 4,555.96 Sidewalk 6.61	240.00 	338.87 498.01 100.00 524.09 271.35 .63 237.80	\$ 1,857.43 3,673.81 6.294.23 908.03 2,974.04

Street Commissioner's Report.

Office of Street Commissioner, Ann Arbor.

Mich. Jan. 2, 1913. Hon. Board of Public Works, Wirt Cornwell, Esq., President: Gentlemen—The following is a report of the work done by the Street Department during the month of December, 1912:

v. 29-Dec. 11; Dec. 12-31-Cleaning paved streets, labor\$288.13 Grading, graveling and patching streets, naw av.; Wells st.; 7th st.) Cleaning gutters, labor .

(S. Ashley; Mosely; roadway; S. Univerv: Washtenaw E. of pavement; Ann at

N. Observatory.) Cleaning and repairs catch basins, inlets, gutter boxes, etc., labor 12.54
Cleaning No. 1 bridge and M. C. overhead 2.85crossing, labor Miscellaneous work and repairs,

labor (Lowering water gate Medallion and Oswego, \$0.90; making street sweeper brooms,

then; driveway Felch bet. 1st and Spring; Koch driveway, Broadway.)

h bet. Liberty and Jefferson, \$620.)

Taking care of snow:

Cleaning snow from crosswalks, gutters, gutters, etc., labor\$24.38 Cleaning snow from crosswalks, gutters, Plowing snow from sidewalks, labor 24.50

Total\$50.51 Grand total\$617.70 Respectfully submitted, J. WISNER, Street Commissioner.

Reports from city treasurer, city clerk and street commissioner for month of December, 1912, and annual report of board of public works received. Moved by Ald. Lindenschmitt, that reports be printed with the proceedings.

Adopted as follows: Yeas, Schmid, Koernke, Flynn, Ramsay, Lindenschmitt, Schultz, Prochnow. Pipp, Sherk, Rash, Lutz, Pres. Mills. 12. Nays, none.

Resolutions.

By Ald. Lutz: Resolved, that warrant No. 14365, drawn in favor of Peerless Portland Cement company for \$370.22, in settlement of account to Nov. 4, 1912, be and the same is hereby cancelled.

Resolved, further, that the city clerk draw warrant in favor of the said company for \$203.52, in settlement of account to date.

Adopted as follows: Yeas, Ald. Schmid, Koernke, Flynn, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills,

12. Nays, none.

By Ald. Lutz: Resolved, that the matter of electric light at the intersection of Twelfth and North University av. be referred to the lighting committee Adopted.

Miscellaneous Business.

Sewer Committee Report-

To the Honorable, the Common Council: Gentlemen-Your committee on sewers have had the petition of Stanislaus J. Zowski, et al, referred to them, and deeming the construction of a sanitary sewer in the following location a necessary public improvement, would recommend your Honorable Body that a sanitary sewer be constructed on Washtenaw av., from about 150 feet northwesterly from the northwest line of Valley st., to the city limits, and from Washtenaw av. southwesterly to Ferdon road, through Austin av. and land deeded to the city for such purpose by Mr. and Mrs. L. D. Carr.

I. L. Sherk, Chairman of Sewer Committee.

Ald. Ramsay moved the adoption of the report.

Adopted as follows: Yeas, Ald.

Schmid, Koernke, Flynn, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 12. Nays, none.

By Ald. Ramsay: Resolved, that the construction of lateral sewer hereinafter designated is deemed and declared to be a necessary public improvement, and the construction of the same is hereby ordered, that is to say: on Washtenaw av. from about 150 feet northwesterly from the northwest line of Valley st. to the city limits and from Washtenaw av. southwesterly to Ferdon road. Through Austin av. and Carr property as per deed.

erty as per deed.

Resolved, further, that the city engineer cause all needful surveys, maps, measurements and estimates to be made and report the same to the council with all convenient dispatch.

Adopted as follows: Yeas, Ald. Schmid, Koernke, Flynn, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 12. Nays, none.

Moved by Ald. Lindenschmitt, that the Oswego street grade be referred to the street committee and city engineer. Adopted.

The council adjourned.

ROSS GRANGER, Clerk.

Annual Report of the

Board of Public Works

January 6, 1913.

City Engineer's and Street Commissioner's Detailed Reports For Year 1913.

CITY ENGINEER'S REPORT

To the Board of

PAVING.

All the paving laid this year was seven inch concrete pavement, the bottom five inches, mixed eight parts of bank run gravel to one part cement, and the top two inches, mixed two parts of bank run gravel to one part cement. Expansion joints one inch wide are left along each curb and one-half inch wide transversely,

every fifty feet along the pavement. Cement cost 92c per bbl. net, f. o. b. cars in Ann Arbor; gravel \$1.15

Public Works, f. o. b. Chicago, and asphalt filler To the Board of Public Works, Ann Arbor, Michigan: Sirs—I beg to submit the following report of work done, under your direction, in the Engineer's Department during the Engineer's Department during the Yery respectfully, MANLEY OSGOOD.

PAVING.

1. 0. 6. Chicago, and asphalt filler such as much lighter than the pitch filler. The washed sand for wearing surface cost about \$1.138 per load of 1 1-3 cu. yds. unloaded from the cars in Ann Arbor.

MARY ST.—District No. 26, from the south line of Packard st. to the porth line of Fdwin st. was the first

north line of Edwin st., was the first pavement laid this year. Setting stakes for this pavement was started on July 22d, 1912, and laying the concrete was finished on Aug. 17th. Joints were filled Aug. 29th to Sept. 4th, and the tar and sand top spread Sept. 12th to 19th. The joints were all filled with coal tar pitch filler. For the wearing surface, tar from four different concerns was used, the location of each kind on the street being given elsewhere in this report. There were 2,on Mary and Ashley sts. and \$1.25 on 407.4 sq. yds. of paving, and 1,349.5 Hill st., per load of 1 1-3 cu. yds. delivered on the street; water 25c per total cost, as shown in my report of 100 cu. ft. paving; day labor averaged Oct. 9th, 1912, was \$2,703.08, and the

Concrete pavement and wear-Concrete pavement, only, per sq. yd..... 0.782

Filling joints and wearing sur-

face, per sq. yd...... 0.106 ASHLEY ST.—District No. 27, from the north line of William st. to the south line of Catherine st., excepting used, the location of each kind on the the intersections at Washington st. and Huron st., was started about Aug. report. The curbing for this entire dis-21st, and the laying of concrete fin-ished about Oct. 14th. The wearing upon in the report for that year. In rainy weather, was not finished until pavement, the cost being distributed Nov. 15th. The joints from Huron st. as follows: south to about fifty feet south Washington st., and from the north side of Ann st. to Catherine st., are filled with coal tar pitch filler, and all the other joints on this pavement with Pioneer Asphalt filler. For the wearing surface, tar from three different concerns was used, the location of each kind on the street being given elsewhere in this report.

There was some complaint made about the progress in applying the wearing surface and about the side slope given the pavement just north and south of the Liberty st. intersection, but I believe that in both instances existing conditions were met

in the best possible manner.

There are 7,710.88 sq. yds. of paving and 3,396.3 lin. ft. of curbing in this district. One hundred feet of this curbing, after its first building, was paved streets, as shown by his retaken out and replaced on account of port. a change of grade to make this pave— On Sept. 6th to 12th, Maynard st., ment meet a future pavement on the first Ann Arbor. Tar-Concrete Catherine st. The total cost, as shown pavement, laid in 1909, was entirely in my report of Doc. 4th, 1912 in my report of Dec. 4th, 1912, was \$9,071.92, and the unit costs were as

10110 11 5.	
Total cost per sq. yd	\$1.176
Cost of grading and paving,	
per sq. yd	1.062
Concrete pavement and wear-	
ing surface, per sq. yd	0.913
Concrete pavement, only, per	
sq. vd	0.806

Filling joints and wearing surface, per sq. yd. 0.107 HILL AND OSWEGO STS .- A part

of District No. 20, was graded from Oxford road, to where it was completed and reported upon in 1911, to Geddes av., and paved from Oxford road to about seventy feet east of of surface.

Cambridge road. The grading was done during the time Ashley st. was Washtenaw av., from East Univerbeing paved, and the laying concrete sity av. to Forest av., from which was started Oct. 16th and finished the tar had peeled, were resurfaced. Oct. 25th. Filling joints and tarring This pavement was laid in 1911, is was started Nov. 15th and completed one course paving, and quite a thin

oncrete pavement and wear-ing surface, per sq. yd..... 0.888 all filled with coal tar pitch filler, concrete pavement, only, per and the joints along the curbing with road tar from the Chatfield Mfg. Co., mixed with sand. For the wearing surface, "Tarcoat," a road tar from the Chatfield Mfg. Co., and unrefined tar from the Ann Arbor Gas Co., were street being given elsewhere in this surface, due to searcity of labor and 1912, there was laid 1,418.7 sq. yds. of

Labor grading and mixing	
and laying concrete\$1	,015.05
Labor tarring	69.42
Gravel and hauling same	384.70
Cement, 389.5 bbl. at 92c	358.34
Pitch filler	13.44
Refined tar for wearing sur-	
face and filling joints along	
curbing	49.56
Unrefined tar for wearing	
surface	4.85
Monument castings	7.75
Lumber, forms, etc	15.80
Plow points, \$3.10; coal	
\$5.94	9.04

Total \$1,927.99 RESURFACING PAVEMENTS— Previous to September, \$416.40 was expended by the Street Commissioner's Department for resurfacing

resurfaced. The cost of this

was as follows:	
Labor and superintendence\$	69.98
500 gal. Dolarway Bitumen	
(approx.)	40.00
1 1-2 bbl. "Tarco"	6.90
8 loads washed gravel	9.10
Wood for heating tar kettles	1.25
Depreciation of tools, etc., es-	
timated at 1-2c per sq. yd.	9.42

Total This pavement has a surface of 1,883 sq. yds., making the cost of resurfacing 7 1-4c per sq. yd. It required about 0.305 gal. of tar and 0.0057 cu. yds. of gravel per sq. yd.

mixture, and it must be kept surfaced at all times to prevent raveling of the concrete. The cost of resurfacing done on this street was as follows: Labor and superintendence...\$36.62 Tar: 200 gal. (estimated) at 5c 10.00 2 loads washed gravel 2.28

st. to Liberty st., on State st. between Liberty st. and William St., and on E. Liberty st. near State st., it was found advisable to remove some of the more worn asphalt blocks and replace same with vitrified paving blocks. This is reported upon by the Street Commissioner, who shows the total cost to be \$160.79.

At the corner of E. Liberty st. and Division st., the cover was lost off the street monument box, making it necessary to replace the entire box at a cost of \$4.50.

WEARING SURFACE—For wearing surface of pavements this year, tar from the following concerns was used: "Dolarway Bitumen" from the Dolarway Co., New York, and on hand at the beginning of the season; "Tarco," a road tar from the Phillip Carey Co., Cincinnati, Ohio; "Tarcoat," a road tar from The Chat "Tarcoat," a road tar from The Chatfield Mfg. Co., Carthage, Ohio; "Lewis Road Tar," from F. J. Lewis Mfg. Co., Chicago; and unrefined coal tar from the Ann Arbor Gas Co. The location of each of the above products on the various streets is given as follows:

Mary St.-From Packard st. to 157 ft. south ·····Tarco" From 157 ft. to 282 ft. south of From 494 ft, south of Packard st. to Edwin st. Unrefined Tar Ashley St.-

From Huron st. intersection 66.5 ft. south"Lewis Road Tar" From 66.5 ft. to 126.5 ft. south of Huron st." "Tarcoat" From 126.5 ft. to 183.5 ft. south of Huron st. "Tarco"

From 183.5 ft. south of Huron st. to Washington st. "Lewis Road Tar" (1-2 bbl. "Tarcoat" used to finish this section.)

From Washington st. intersection 103 ft. south ..."Lewis Road Tar"

From 103 ft. to 186 ft. south of Washington st."Tarco" From 186 ft. south of Washington St. to S. line Liberty st. inter-From south line Liberty st. intersection 163 ft. south "Tarco" From 163 ft. to about 320 ft. south of Liberty st. "Tarcoat" From about 320 ft. south of Liberty st. to William st. intersec-..... "Lewis Road Tar" tion From Huron st. intersection about 125 ft. north...."Lewis Road Tar" From about 125 ft. to about 240

ft. north of Huron st. ... "Tarco" From about 240 ft. north of Huron st, to the end of the pavement at Catherine st. "Tarcoat" Maynard St.-

From William st. intersection 435 ft. north "Dolarway Bitumen" From Liberty st. intersection 65 ft.

south "Tarco" The repairing and resurfacing of paved streets prior to Sept. was all done with "Dolarway Bitumen." The repairing on Washtenaw av. was done with unrefined coal tar from the local Gas Co.

It is as yet too early to draw conclusions as to which of these products will be the best suited for use on our tar-concrete pavements, but at some future time I will submit a report of the results.

GENERAL—On preliminary work for pavements to be laid in the future, \$3.67 was expended, and, due to the N. Main st. pavement, laid in 1911, a bill of \$81.88 for moving a fire hydrant was approved. For tools, etc., for paving work, \$56.45 was expended through this office, but such items are recovered to the city in the 10c per sq. yard charged against each pavement for engineering, superintendence, tools, etc.

A summary of pavements laid in the city of Ann Arbor to date is given in the following table. During the year 1911, there was laid on Hill st., District No. 20, 1,780 sq. yds. of pavement and 3,962 lin. ft. of curbing at a cost of \$2,575.66, and during the year 1912 there was laid on this same street 1,419 sq. yds. of pavement and the grading was finished, to the grade established when the curbing was set in 1911, at a cost of \$1,927.95. These items do not appear in this table. To complete this district, there is yet to lay about 2,180 sq. yds of pavement

SUMMARY OF PAVING DONE IN 1912.

Streets and Limits.	Width, Ft.	Kind of Pavement	. Nature of Work Done.	Tot. Cost.	City to Pay.	Propt'y to Pay	Lin. ft. Curb Cost of Excavation.	Total cost per sq. yd. Cost, paving	oury per eq
Hill st,20	24	A. A. Tar concrete	New paving	1,927.95	Distric	et not yet com	pleted.		
Mary st., Packard st. to Edwin st26 Ashley st., William st.	$\frac{30}{34}$	A. A. tar concrete	New paving	2703.08	840.80	\$1862,28 24 07.	4 1349.5 \$221.56	\$1.123 \$0.88	8
to Catherine st27		A. A. tar concrete	New paving	9071.92	2570.22	6501.70 7710.9	3396.3 1058.57	1,176 0.913	
Maynard st. William st. to Liberty st12.	34	A. A. tar concrete	Re-surfacing	136.65	136.65	1883.0		0.0725	
Washtenaw av16		A. A. tar concrete				1009.0		0.0120	
		tching of wearing			ements	and replacing	of asphalt	blocks wi	ith

vitried brick in asphalt block pavements done by Street Commissioner's Department.

SUMMARY OF PAVEMENTS IN THE CITY OF ANN ARBOR.

District No.	When laid	No. sq. yds.	Total cost	Total cost per sq. yd	Cost per sq. yd pavement only	Kiud.
142	Main	8 12730	\$31375.15	\$2.46	\$1.64	Brick on concrete
3	Washington, Ashley to 5th av 1899	5140	11645.17	2.27	1.73	Brick on concrete
4	Huron, Ashley to State1900	10791	27845.38	2.58	2.17	Asphalt bl'k on sand
5	State, Huron to Monroe1903	2 12484	31778.98	2.55	2.16	Asphalt bl'k on sand
6	Ann, Main to 4th av	2 1589	2800.70		1.59	Brick on sand
7	Liberty, Ashley to State190	3 9140 3 2431	24486.03 6490.80	$\frac{2.68}{2.67}$	2.19	Asphalt bl'k on sand
8	Fourth av., Huron to Liberty. 1903		19092.01	2.54	2.19	Asphalt bl'k on sand
9	William		10720.16		2.03 1.63	Bithulithic
11	Alley		672.74		1.50	Brick on concrete Brick on concrete
12	Maynard 190	9 1883	1930.13		.78	A. A. tar concrete
13	N. Fourth av., Huron to Ann1916		1351.34		.88	A. A. tar concrete
14	E. Huron and Twelfth191		6685.50	.99	.76	A. A. tar concrete
15	Washington, 5th av. to 12th1919	0 8633	8189.73	.95	.71	A. A. tar concrete
_16	Washtenaw av 191		12392.81	1.03	.78	A. A. tar concrete
17	State, Packard to Arch191	1 2587	2672.49	1.03	.84	A. A. tar concrete
18	S. Main and Packard191		23172.05	1.11	.78	A. A. tar concrete
19	N. Main, Catherine st. north191	1 10117	11110.86		.82	A. A. tar concrete
20			not com			A. A. tar concrete
	Fifth av	1 10483	11678.31		.84	A. A. tar concrete
22	Alley191	1 293	314.84		.84	A. A. tar concrete
23	Alley		1029.38		.77	A. A. tar concrete
24 25	Arch and Thayer		$\begin{array}{r} 1747.35 \\ 3181.57 \end{array}$.95 1.01	.77	A. A. tar concrete
26	State, Monroe to Packard191 Mary191		2703.08		.78 .89	A. A. tar concrete
27	Ashley		9071.92	A STATE OF THE STA		A. A. tar concrete A. A. tar concrete
				1.10	.01	A. A. tar concrete

NOTE-The pavement between the rails of the street car track on Washtenaw av. and between the rails and for a distance of 18 in, out on either side of the track on Packard and Main sts. is of brick on concrete, and is not included in the above state-

Statement of kinds of pavement in Ann Arbor-

Brick on Concrete....23,265 sq. yds. Brick on sand 1,589 sq. yds. Asphalt block on sand. . 34,846 sq. yds. Ann Arbor Tar-Concrete:

Laid in 1909...... 1,883 sq. yds. Laid in 1910......16,557 sq. yds. Laid in 1911......64,089 sq. yds. Laid in 1912......11,537 sq. yds. Total Ann Arbor Tar-Concrete94.066 sq. yds.

Total of all kinds of

Hill and Oswego sts. in District No. 20 included, is \$268,702.12.

SANITARY SEWERS.

All of the sanitary sewers laid this year were of eight inch vitrified pipe, and all empty into sewers of the same type and size previously laid. Hochrein & Reimold were awarded the contracts for all of the sanitary sewers laid in 1912. The house connections were all run in to the curb line.

Murray Av. Sewer, District No. 48, between Washington st. and Liberty st., emptying into W. Washington st. sewer, District No. 22, was started Sept. 17th and completed Oct. 4th.

Olivia Av. Sewer, District No. 49, a continuation of sewer running north from Minerva road, District No. 46, was started Oct. 5th and completed Nov. 18th.

Myrtle St. Sewer, District No. 50, east from Oswego st. to the city limits, emptying into sewer on Hill st., at

Oswego st., District No. 24, was start- to the Come-Packt Furniture Co. and ed on Oct. 12th, 1912, and was not completed until Jan. 6th, 1913. There is considerable dirt to go back into this sewer trench which cannot be put in until the frost goes out of the ground in the spring, but the 5 per cent. retained on the final estimate, as well as the bond, provides for any failure of the contractors to care for

COSTS—Table No. 3 shows costs of the foregoing sewers, together with the general data concerning them.

REPAIRS, ETC.—Repairs to sanitary sewers and flushing, exclusive of the amount paid to the Ann Arbor Water Co., has cost \$110.24 during the year, including the amount shown in the Street Commissioner's report. In addition to this, it was found necessary to repair a tile drain belonging date:

running across Hill st. from owned by the above company to a sewer through the land of F. C. Weinberg. This drain was broken when the sanitary sewer on Hill st. was laid and was not repaired at that time. The total cost of this work was \$18.38, of which \$8.37 was billed against the Come-Packt Furniture Co. for repairs made to the drain which were not necessitated by any act of the city's agents or employees.

For preliminary work on sanitary sewers to be constructed in the future, \$5.20 was expended; and for additions to and blue printing the map of the general sanitary sewerage sys-

tem, \$3.30 was expended.

SUMMARY OF SANITARY SEW-ERS-Table No. 4, which follows, is a tabulation of data and costs of the sanitary sewers laid in Ann Arbor to

.

1912.	When due. Contractors.	Oct. 7, 1913 Hochrein & Reimold	Nov. 18, 1913 Hoch'n & Reimold	84.23 Jan. 6, 1914 Hochrein & Reimold
URING	5 per cent, retained on contract.	\$48.46	13.93	
AMARY OF SANITARY SEWERS BUILT DURING 1912.	Amount of contract	\$ 969.27	278.62	1684.65
EWERS	Ргорегіу to рау	\$ 825.94	262.62	1651.01
CARY S	City to pay	\$157.00	36.00	44.68
SANIT	Total cost	\$ 982.94	298.62	1795.69
0	Light holes		-	-
7.7	Flush tanks	1 1	-	1
MAI	Manholes	4		-
SUM	Length of main	724 ft.	157 ft.	651 ft.
	Total length	350 ft.	102 ft.	370 ft.
	Number house	27	00	17
	Streets and Limits. District	Murray av., Wash. st. to Liberty st48		yrthe st., Oswego st. to city limits50
	Stre	M	ວີ;	Z -

SUMMARY OF SANITARY SEWERS IN THE CITY OF ANN ARBOR.

				W.	flushtanks	No. light, holes			d)		
			Ŧ	ole	Ξ	10		d)	S 2	_	
No.			$\alpha \tilde{c}$	1	ıţ		le	Ë	house	of III	z
			Total length of main	manholes	$\overline{\mathbf{x}}$	Ħ	8-inch tile	10-inch tile	No. of house	Length of house conn	Total cost
ct	Street.		ai:	ΠĘ	θn	50	h	- 5	of ec	th C	-
District		Date	E E			_	36	.Ē	Ğ.	26 35 35 36	E.
3		8	to T	No.	No.	0	-7	0	50	e To	٥
D		\Box	10	Z	Z	Z	00		20	HÀ	H
	3.0	1603		Mo	***	20011	a				\$41252.83
	Main sewer	1004		No		ecor					3954.44
1	Liberty, E. of main sewer	1604				cord					6831.09
2	Washington, E. of main sewer					ecore					27912.80
3	Hill st. district E. of main sewer1			No		COrc					
4	Huron, E. of main sewer	1895				cord					4303.19
5	William, E. of main sewer					core					8454.98
6	Detroit	1897				cord					12587.00
7	W. Liberty, to near Seventh	1897	1804	5,	1	5	1804		63	998	1887.84
8	E. Catherine, Division to State .	1900	631		1	1	631		22	256	527.43
9	Ann, Huron, 13th and 14th	1991	1370	4	2		1370		50	988	2163.43
10	14th and Volland	1901	1263	3	1		1263		35	630	1541.47
11	First, Madison to Jefferson		918	3	1		613	305	27	508	1169.51
12	W. William st	1903	1527	4	1		583	944	40	678	2053 02
13	Beakes, 4th av., 5th av., Kingsley.		4204	8	7		2703			2316	5024.40
14	N. Main, main swer to Catherine.	1905	1393	3	2	• •	1393		69	1444	2322.48
15	Cambridge, Washtenaw,	400=	* 10=		0		1405		00	507	1795 64
	Vinewood, Ferdon	1905	1497	4	$\frac{2}{1}$	• •	1487		28	707	1735.64
16	W. Lib'ty ext. to city limits		1352	3		• •	1352		40	726	1265.68 590.84
17	Third, William to Jefferson		602	1	1		602	÷:.÷	19	328	
18	W. Huron		3509	8	1		2942	.537	102		4111 52 574 76
19	Church		444	1	1	• •	414	407	$\frac{22}{57}$	$\frac{376}{987}$	574.76 2147.27
20	Miller av		2224	9	1	• •	1737	487	*32		1070.92
21	Spring, Miller to Hiscock		1252	4	ò	• •	CSS 2834	564	*88		2369.03
22	W. Washington and 3rd		2834	8	$\frac{2}{1}$	• •	$\frac{2854}{200}$		8	160	250.09
$\frac{23}{24}$	S. Division		$\frac{200}{1730}$	$\dot{5}$		• •	1730		*30		1520.70
25	Geddes av., Hill & Oswego State and Dewey av		3134	9	$\frac{2}{2}$	• •	2882	${242}$			2186.67
26	Broadway and Wall st	1007	5682	20	5		$357\overline{1}$				4989.01
27	Second ward	1908			$1\overline{3}$	• •	3540				8035.98
28	Belser, Observatory, Volland		2380	4	3		2380		*39		1895.50
29	Spring st. extension			3	1		890		*26		632.32
30	E. Catherine and Clark		1498	3	$\overline{2}$		1498		*38		1148.36
31	Fuller and Elizabeth		1080	2	$\frac{2}{2}$		1080		*22		\$ 943.60
32	S. Main, Mosley, Ashley		3679	8	3		3108	571	*98		2229.03
33	Arch, White, McKinley		1458	3				.1458	*58		513.49
34	Packard. Granger, Ferdon		10128	27	7			3098			6300.08
55	Second, William to Liberty		321		1		321		*12		240.69
36	N. 5th av. and E. Summit		891	2	2		891		*27		741.20
37	Cambridge, Washtenaw to Hill	1910	1200	3	2		1200		*34		911.39
38	Hill, Division to Main	1910	1320	3	1		1320		*40		1037.00
39	Fuller, Glen to State		1197	3	1		1197		*19		815.93
40	Ashley, Kingsley to Ann		771	2	1				*30		637.77
41	Felch. Fountain, Hiscock, Chapin										
	and Cherry	1910	4970	8	C	4	3328	742	*12?		$32^{\circ}9.79$
42	N. Main, Summit to A. A. R. R.	1911	651	2	1	. 2	651		17	230	680.14
43	4th av., Beakes to Summit	1911	869	2	1		809		*21		643.55
44	Depot, 4th av. to Main	1911	235		1				*9		204.26
45	White and McKinley	1911	345	1	1		345		*18		247.32
46	Olivia av. and Minerva road	.1911	733	2	1		733		*29		538.53
47	E. Ann, Glen to Ingalls	1911	655	1	1		655		*28		532.71
48	Murray av., Wash'ton to Liberty		724	4	1	1.	738		27	350	982.94
49	Olivia av., N. of Minerva road	.1912	157		1	1	165		0	102	298.62
50	Myrtle, Oswego to City Limits	1912	651	1	1	1	608		17	370	1795.€9
	<u> </u>										
											0400400 NT

^{*}Ys only.

STORM SEWERS AND CARE OF STORM WATER.

Church St. and Willard St.—During the past year, only one storm water sewer was built, being on Church st. lows: from S. University av. to Roosevelt av., where it empties into the concrete storm water sewer running west from the corner of Church St. and Roosevelt av. across private property. This Church st. sewer is a twenty inch vitrified tile sewer from the outlet to Nov. 18th, 1913; contractors, Hochrein the man hole on Church st. 219 ft. & Reimold. north of the center line of Willard st. A fifteen inch tile runs north from here to the storm sewer manhole at S. University av. and Church st., and is arranged for an overflow for this manhole; i. e., so that if the manhole starts to fill up above its outlet the water will run off down Church st. In connection with this Church st. sewer, a storm water sewer was built on Willard st., emptying into Church st. sewer and running from there west 144 ft. This was necessary to care for water which formerly overflowed the curb and sidewalk and ran over private land and into cellars. Hochrein & Reimold were awarded the contract for building these sewers. The costs were as follows:

On Church St.—

on charca st.—
1936 ft. of 20 inch sewer
pipe at 58c\$1,122.88
220 ft. of 15 inch sewer pipe
at 46c 101.20
720 ft. of 12 inch sewer pipe
at 38c 273.60
8 manholes at \$25.00 200.00
22 inlets at \$8.00
2030 ft. of excavation less than 6 ft. deep at 25c 507.50
than 6 ft. deep at 25c 507.50 930 ft. of excavation between
6 ft. and 8 ft. deep at 30c 279.00
o it, and s it. deep at soc. 213.00
Total for contract work 2,660.18
Engineering and laying tile 116.25
Total cost of sewer\$2,776.43
On Willard St.—
144 ft. of 15 inch sewer pipe
at 46c\$ 66.24
28 ft. of 12 inch sewer pipe at
38c 10.64
1 manhole at \$25.00 25.00
2 inlets at \$8.00 16.00
172 ft. of excavation less than
6 ft. deep at 25c 43.00
The second seconds 100 00
Total for contract work 160,88
Engineering and laying tile 7.65

Total cost of sewer\$168.53

Of the above contract price, in

each case, 5 per cent, was retained for one year's time. The amount of this retent and the date on which the payment of same falls due are as fol-

Sewer, Church st.; amount of 5 per cent retained, \$133.00; date when due, Oct. 7th, 1913; contractors, Hochrein & Reimold.

Sewer, Willard st.; amount of 5 per cent. retained, \$8.04; date when due.

Mary St .- In connection with the pavement on Mary st., one additional inlet was set and connected with the storm sewer. The other inlets on this street needed slight adjusting to fit the grade and line of the curb. The total cost for care of storm water on this improvement was \$23.80.

Ashley St .- In connection with the pavement on Ashley st., five new inlets were set in the curb line, two at the corner of Catherine st. and three at the corner of Ann st., and one new inlet was set in the center of the alley running east and west between Liberty and Washington sts. just east of the Ashley st. line. All of these inlets were connected with the storm sewers on the nearest east and west street. To care for the water formerly discharged into the gutters on Ashley st. from the roofs of store buildings, two short extensions of storm water sewers were made, one from Liberty st. south and one from Ann st. south. The owners of property benefitted paid directly a part of the cost of these short extensions. The total cost to the city for care of storm water on this improvement \$267.00.

Hill and Oswego Sts.-On the corner of Hill and Oswego sts., an inlet was set at a cost of \$1.32.

W. Liberty St.—In the center of the alley running north and south between Ashley st. and First st., just north of the Liberty st. line, an inlet was set to keep the water from running down the Liberty st. sidewalk. The total cost of this was \$30.15, including the building up of a manhole on Liberty st. which was left, at the time the sewer was constructed, only partly built and covered with a large stone slab.

General-The engineer cost in connection with other work, done by the Street Commissioner's Department, in caring for storm water, was \$12.98. The total amount expended for care. of storm water during the year, ex-

COMMON COUNCIL	—JANUARI 20, 1913.
clusive of the storm water sewers on	Storm water sewers 51,287.64
Church st. and Willard st., in both the	
Street Commissioner's and the Engin-	Total\$500,096.71
eer's Department, was \$483.08. This	Cost of pavements and sewers in
does not include a bill of \$29.75 ap-	Ann Arbor by years:
proved for water used in 1911 in	Prior to 1900\$176,616.21
building storm water culvert on State,	1900 28,372.81
Arch, McKinley, White and Packard.	1901 3,704.93
The following table shows the cost	1902 36,850.85
of storm water sewers built in the	$1903 \dots 34,229.39$
city of Ann Arbor to date:	1904 5,024.40
Table showing cost of storm water	1905 18,744.79
sewers build in Ann Arbor to date.	$1906 \dots 12,986.96$
Date Sewer Cost.	1907 34,931.94
Built prior to 1900\$26,411.72	1908 10,489.40
1902 State st 1,667.22	1909 11,867.30
1902 Ann st 543.95	1910 24,166.12
1905 N. University av 361.00	1911 82,089.30
1905 E. William st 3,014.67	$1912 \dots 20,022.31$
1906 and 1907 Roosevelt av.	A700000
and across Judson's land 1,710.41	Total\$500,096.71
1906 E. Washington st 3,781.82	GENERAL
1909 Hill st. and Washte	Sprinkling Streets—Three districts
naw av 653.90	were sprinkled during the season, the
1910 Washington st., east of	streets sprinkled, cost for each dis-
State st 536.37	trict and contractor being given be-
1911 Ann st. and Alley B.	low:
1 N., R. 4 E 443.14	District No. 11: State st. from
1911 Alley in B. 3.S., R. 3 E 250.92	Washington st. to William st., N.
1911 Hill st., Oxford to Cam-	University av. from State st. to Thay-
bridge 116.87	er st., and Liberty st. from State st.
1911 Packard st., Hill st.	to Maynard st. Cost for the season,
to Monroe st 868.97	\$500 00 Contractor W I Clancov
	\$528.00. Contractor W. J. Clancey.
1911 Hill st., Cambridge to	District No. 12: Hill st. from Ox-
1911 Hill st., Cambridge to Oswego	District No. 12: Hill st. from Oxford road to Church st., Oxford road
1911 Hill st., Cambridge to Oswego	District No. 12: Hill st. from Oxford road to Church st., Oxford road from Hill st. to Washtenaw av., Lin-
1911 Hill st., Cambridge to Oswego	District No. 12: Hill st. from Oxford road to Church st., Oxford road from Hill st. to Washtenaw av., Lincoln av. from Hill st. to Cambridge
1911 Hill st., Cambridge to Oswego	District No. 12: Hill st. from Oxford road to Church st., Oxford road from Hill st. to Washtenaw av., Lincoln av. from Hill st. to Cambridge road, Olivia av. from Hill st. to Cam-
1911 Hill st., Cambridge to Oswego	District No. 12: Hill st. from Oxford road to Church st., Oxford road from Hill st. to Washtenaw av., Lincoln av. from Hill st. to Cambridge road, Olivia av. from Hill st. to Cambridge road, and Forest av. from
1911 Hill st., Cambridge to Oswego	District No. 12: Hill st. from Oxford road to Church st., Oxford road from Hill st. to Washtenaw av., Lincoln av. from Hill st. to Cambridge road, Olivia av. from Hill st. to Cambridge road, and Forest av. from South University av. to Cambridge
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1911 Hill st., Cambridge to Oswego	District No. 12: Hill st. from Oxford road to Church st., Oxford road from Hill st. to Washtenaw av., Lincoln av. from Hill st. to Cambridge road, Olivia av. from Hill st. to Cambridge road, and Forest av. from South University av. to Cambridge road. Cost for the season, \$792.00. Contractor, W. J. Clancey. District No. 13: Hill st. from the east line of Church st. to Tappan st., Tappan st. from Hill st. to East University av., and East University av. from Tappan st. to Hill st. Established July 1st, 1912; cost for the balance of the season, \$351.00. Contractor, W. J. Clancey. Cemeteries—In the City Cemetery, known otherwise as Fairview Cemetery or the Fifth ward cemetery, a vault was constructed during the year. The contract for building this vault was let to Harry M. Grooms, who started work August 19th and completed same about Sept. 30. The contract price was 600.00 and the cost of engineering and inspection was \$3.01, making the total cost \$603.01. This does not include the work of designing or drawing plans.
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against the Hammond Beef Co. and to the Special Water Committee, unthe Michigan Central Railroad Co., der date of Jan. 6th, 1913. to gain recognition of the city's ownership of that portion of N. Fifth av. the amount properly chargeable dinow occupied by the Hammond Beef rectly to your Engineer's office has Co. building, I made a survey and been \$320.45. This includes all supmap of that locality. Te map is on plies bought and all that part of my work was \$24.25.

has been fully covered in my report ments, etc.

Engineer's Office—Since August 1st, file in my office. The total cost of this own time and the time of the men working in the Engineer's department Sidewalks, Curbing, etc.—The en- spent in numbering houses, repairing gineering cost, since July 1st, for es- or adjusting instruments, keeping up tablishing grades for and setting general office records, attending Board stages for sidewalks, curbing, etc., and Council meetings, attending to ofexclusive of curbing built in connec- fice correspondence and extending tion with pavements, was \$147.24. necessary courtesies to visitors who Work at Steere Farm—This work come to Ann Arbor to see our pave-

STREET COMMISSIONER'S REPORT

To the Hon. Board of Public Works, Wirt Cornwell, Esq., President: Gentlemen

Office of the Street Commissioner, Ann Arbor, Mich., Jan. 6, 1913.

-I herewith submit to your honorable body the annual report of the work done in my department during the year ending December 31, 1912, including the care of streets and sidewalks, construction of culverts, inlets, spill connections, etc., sidewalk extensions and crosswalks, street paving and the cement, gravel and other materials purchased under your direction and used during the year: STREET WORK-\$288.13. Sprinkling paved and dirt streets (in addition to sprinkling for street sweeping), labor 59.00 Taking care of snow, labor-Cleaning snow from crosswalks, gutters and inlets..\$1441.39 (Jan., \$234.83; Feb., \$428.10; March, \$754.08; Dec., \$24.38.)
Clearing ice from creek, 5th street..... (Jan., \$225; Feb., \$13.25.) Sanding extensions and sidewalks, (Jan.)..... 8.26 Plowing snow from sidewalks 557.00 (Jan., \$170.00; Feb., \$214.50; March, \$148.00; Dec., \$24.50.) Plowing snow from gutters 8.17 (Jan., \$5.17; Feb., \$3.00.) Cleaning snow from park walks 42.13 (Jan., \$13.75; Feb., \$19.75; March, \$7.00; Dec., \$1.63.) Sand for sanding extensions, 2 loads @ 0.25 41 bbl. salt for clearing inlets, culverts, etc...... 45.10 2,118.05 Repairs paved streets, labor 160.79

(Labor on above—April, \$7.88; May, \$4.54; June, \$28.18; July, \$3.00; Oct., \$26.43; Nov. \$22.20.)

JANUARY 20, 1913.	
Tar from city tank, 1500 gals. (Est.) @ .08120.00 3 cars Torpedo gravel (Chilson)	
State N. side and State bt. Hill	
and Monroe, E. side, labor,	
4 lds. gravel @ \$1.13 4 52	
8 sks. cement 2 bbl. @ 0.92	
19 gals. kerosene oil @ 0.09 1-2 1.81 \$23.98	
(Tarring acct. not complete-Balance of labor, tar and gravel	398.40
acct. kept by City Engineer)	
Heating city tar tank, labor	
Aug., \$5,22.)	
Coke, (\$7.88; \$7.61; \$1.31)	59.59
Grading, graveling and patching streets in the several	
wards, labor\$2,483.97 (March, \$3.00; April, \$418.00; May, \$248.90; June,	
\$242.95; July, \$405.22; Aug., \$87.93; Sept.	
\$163.76; Oct., \$228.81; Nov., \$287.23; Dec., \$198.17.)	
1258 loads gravel	
114 lds @ 0.15 17.10	
992 lds @ 0.20 198.40	
3 lds @ 0.25 0.75	
1 ld (including hauling) 1.15	
1258 \$232.20	
Grading streets with scraper, labor, (April)	2,922.71
(April, \$54.76; Aug., \$4.38; Oct., \$24.50.)	2,322.11
Cleaning gutters on dirt streets in the several wards	
labor	3,071.85
\$131.22; Aug., \$165.68; Sept., \$203.47; Oct.,	
\$129.53; Nov., \$512.36; Dec., \$23.36.)	
Cutting weeds in streets and from lawn extensions in the several wards, labor	352.01
(May, \$16.40; June, \$174.42; July, \$70.99; Aug.,	332.01
\$35.20; Sept., \$40.00; Oct., \$15.00.)	
'Total street work\$	14.077.87
CULVERTS—	21,011.01
Culvert in Edwin street at entrance to Ferry Field,	
labor,	\$ 72.61
10 lds gravel @ 0.25	
1 load torpedo gravel	19.97
	\$ 92.58
Less paid by U. of M. for top (sidewalk)	15.02
[20] [20] [20] [20] [20] [20] [20] [20]	
Cost of culvert	\$ 77.56 48.61
(July, \$17.47; Aug., \$17.74; Nov., \$7.20; Dec.,	10.01
\$6.20.)	0.00
Repairs culverts, labor	6.62
5th st.: railing culs. 5th ave. and Edwin st.)	
(Jan., \$3.26; Nov., \$2.36; Dec., \$1.00.) Total culvert work,	19974
SIDEWALKS	
Grading for sidewalks in the several wards, labor	863.81
(April. \$49.51: May. \$338.35; June, \$16.20; July,	
\$309.13; Aug., \$24.48; Sept., \$44.31; Oct., \$80.33; Nov., \$1.50.)	

Repairs cement and tar sidewalks in the various wards,		
labor. (Abt. 500 holes repaired)	. \$139.88	
(Jan., \$0.58; April, \$3.30; May, \$17.85; July, \$104.42;		
Nov., \$7.97: Dec., \$5.76.)		
67 sacks cement, 16.75 bbls. @ 0.92	15.41	
Gravel, 19 lds @ 0.25 (Packard)\$4.75		
Gravel, 8 loads from car (Chilson) 4.09	8.84	
Less cash collected from property owners\$17.25	164.13	
Less bills sent to property owners	45.04	119.09
Dess bills sent to property owners	. 10.01	113.03
Sidewalks built by city —under contract—		
Tar—C. M. Thompson & Son—		
S. Side Summit bet. Main st. and A. A. R. R.		
	6 99 7 5	
3 0303 rods @ 4.75		
9.9393 rods @ 4.75	20.40	
E. side Ferdon rd. bet. Washtenaw ave. and Norway st.	50.49	
Part lot 60, 4.1896 rods at \$4.75	10.00	
Lot 59, 2.6424 rods, at \$4.75	14.00	
Lot 58, 3.0303 rods, at \$4.75	14.59	
Lots 57, 56, 6.0606 rods, at \$4.75	28.79	×
E. side Ferdon rd. bet. Norway st. and Granger av.—	40.40	
Lots 53, 52, 51, 9.0909 rods, at \$4.75		
Lot 50, 3.0303 rods, at \$4.75	14.39	
Lot 49, 3.0303 rods, at \$4.75	14.39	
W. side Dewey south of Packard—		
10.7575 rods, at \$5.00	53.79	
S. side Hill bet. Division and 5th av.—		
11.8728 rods, at \$5.00	59.37	
W. side Elm bet. S. University and Mack rd.—		
12.6969 rods, at \$5.00	63.49	
E. side N. 4th av. bet. Beakes and Summit-		
3.2121 rods, at \$5.00	16.06	
E. side N. Main bet. Summit and Depot—		r
4.0351 rods, at \$5.00	20.18	
927 North Main st.—		
5.4393 rods, at \$5.00	27.20	
W. side Forest bet. Woodlawn and Granger-		¥
3.0048 rods, at \$5.00	15.03	
E. side Cambridge rd. bet. Forest and Olivia—		
7.1615 rods, at \$5.00	35.81	
1334 Belser st.—		
2.1161 rods, at \$5.00	10.58	
		564.94
Cement—C. M. Thompson & Son—		
207 S. Main, 246.5 sq. ft., at \$0.10		
422 E. Washington, 317.5 sq. ft., at \$0.10	31.75	
330 Maynard, 230 sq. ft., at \$0.10		
332 Maynard, 200 sq. ft., at \$0.10	20.00	
N. E. Cor. Packard and 5th av. on Packard, and on		40
5th av., 708.35 sq. ft., at \$0.10	70.84	
E. side Washtenaw av. bet. S. University and Hill st.,		
559.15 sq. ft. at \$0.10	55.92	226.16
-		 .
(Triangle, Washtenaw av. and Hill st.—two sidewalks a		
1,567.91 sq. ft.—cost included under Extension and Crosswal	k work.)	
Total sidewalks laid, tar, 20; cement, 8-28.		
For property owners, tar, 20; cement, 6-26.		
For city, tar, 0; cement, 2-2.		
Total, 28.	COL COL	19
Total Sidewalk work	\$	1,774.00
CROSSWALKS, EXTENSIONS, STORM WATER GUTTI	ers, R	EPAIRS
BRIDGES, ETC.—		
Building crosswalks, sidewalk extensions and storm w	ater gut	ters at
		235

20, 1019.	
street intersections in the several wards and repairs bridges, etc., income crosswalks, 78 extensions, 5 crosswalks relaid, 6 cement storm gutters and 3 cement sidewalks, city property:	water
Cement, 840 sacks, 210 bbls—	3033.89
93.25 bbl., at \$1.05	205,32
Gravel, 167 loads 34 loads at \$0.15 \$5.10 15 loads, at \$0.20 3.60 57 loads, at \$0.25 14.25 2 1-6 cars, (58 loads) from Chilson 29.50	52.45
Total\$52.45	
Lumber	57.9 5
Forms, etc., Luick, \$5.00, \$39.12	48.20
Sand, 6 loads, at \$0.25	1.50 73.18
(Bal. of brick used, from crosswalks torn up for paving.)	
Sidewalk extensions laid by contract— (Including 56 extensions, 5 extensions relaid and 2 sidewalks,	.,272.35
city property.) N. E. Cor. Ann and 4th av. Koch Bros., 96.427 sq. ft. cement walk, \$0.10 Fifth av. and Catherine, Ann, Jefferson; Division and Ann;	9.64
Willard and Forest; M. G. Richmond, 907 sq. ft. at \$0.10 \$90.71 Less 9 bbl. cement, at \$1.10	80.81
Cement—C. M. Thompson & Son— Part of extension N. E. Cor. Washington and State	
st., 137.415 sq. ftat \$0.10	13.74
at \$0.33,—\$0.66	87.69
N. Main and Depot, Summit, Felch; Packard and 4th. av. S. Main, 5th av.; opposite school house bet. 5th av. and Division; 1,705.04 sq. ft., at \$0.10\$170.51	
Less 24 bbl. cement, at \$1.10	144.11
N. E. Cor. Lawrence and Thayer, 7.5 sq. ft., at \$0.10	.75
1,567.91 sq. ft., at \$0.10	156.19
Tar—	
S. E. Cor. Cambridge rd. and Forest av.—	
1.5 ft., 0.0909 rods, at \$5.00	0.45
Ashley and William st	2.45
Total	\$495 35
Repairs Bridges— Replanking and repainting No. 1 bridge, labor	
And the second s	

COMMON COUNCIL—JANGART 20, 1913.
3,100 ft., \$259.20; Simmons, 641 ft., 2-inch and 3-inch,
\$20.51.) Iron—187 ft. 6-inch by 8-inch by 1-4-inch, plate
Nails, \$2.50; paint brushes, \$1.00 3.50 Bolts (Fischer) \$7.50, \$0.60 8.10 2 sacks cement, 1-2 bbl., at \$0.92 46
Lumber (Wood & Co.) for bridge sidewalk
Cleaning inlets and catch basins, labor
Unloading cement, gravel, brick and tar; hauling cement ror curbing; handling and shipping empty cement sacks, labor. 143.98 (Cement and sacks—Jan., \$0.50; May, \$6.22; July, \$8.53;
Aug., \$21.24; Sept., \$15.85; Oct., \$13.86; Nov., \$5.11; Total, \$71.31.
Gravel—April, \$3.20; (torpedo); May, \$9.27; June, \$11.33; Aug., \$10.62; Sept., \$13.10; (torpedo); Oct., \$4.26; (torpedo); total, \$51.78.
Tar—Aug., \$0.90; Sept., \$10.50; total, \$11.40. Brick—Sept., \$8.78. Tile—Nov., \$0.71. Total, \$8.89.)
Cleaning crosswalks, labor
Nov., \$11.48; Dec., \$8.58.) Cleaning bridges, labor
(April, \$14.16; Nov., \$2.60; Dec., \$2.85.) Inspection house moving, labor
(July, \$19.67; Aug., \$12.67.) Laying and relaying pavements to match with new paving work, labor
(Aug., \$2.50; Sept., \$12.05; Oct., \$5.96.) Total Crosswalks, Extensions, Repairs Bridges, etc\$2,836.44
INLETS, STORM WATER SEWERS, ETC.— Setting inlets and repairs inlets, spills and gutter boxes; resetting inlets for
paving work and laying storm water sewers, labor\$287.93 (April, \$48.02; May, \$20.23; June, \$19.85; July, \$40.78; Aug., \$30.91; Sept., \$120.92; Oct. \$2.34; Nov., \$5.28.)
Cement, 47 sacks, 11.75 bbl., at \$0.92
4-20—State and Dewey (Rohde) 16 pc. 8-inch
4-23—Felch, bet. Spring-Fountain, 3 pc. 8-inch .99 5-22—Olivia-Cambridge rd. 5 pc. 24-inch 5.53 5-31—5th avMadison (Rohde) 5 pc. 12-inch 2.80
7-26—Mary st. inlets (Rohde) 27 pc. 12-inch
3-12-inch by 12-inch T
10-1 Ashley, etc., Bill Rohde 88.25 10-25—Cambridge rd. and Hill gutters, 5 pc. 12-inch 1.90
Total setting inlets, etc
labor
Total Inlets, Storm Water Sewers, etc
Repairs sweepers and snow plows; making new snow plows and street sweeper brooms, labor and materials\$258.37
Work on sweepers and making brooms, labor

20, 1010.
Repairs sweepers
Total
Supplies, iron, bolts, etc
Total
Repairs cement mixers, steam road roller city tar tank, etc., labor (April, \$19.30; May, \$23.72; June, \$5.50; July, \$12.01; Aug., \$11.79; Sept., \$7.50; Oct., \$8.63; Nov., \$2.67.)
Work at city yard, piling lumber, brick and other materials, labor 16.82 (Jan., \$2.38; Aug., \$4.51; Oct., \$3.25; Nov., \$6.68.)
Miscellaneous repairs at different points in the city, labor
Total General Work and Repairs\$400.08
Paving to the amount of 11,536.98 square yards has been done under direction of your Honorable Board during the past season, as follows:
Paving Dist. No. 26, Mary, Packard to Edwin
Labor
Cement, 389.5 bbi., at \$0.92
Total Paving
Work done in 1911, 1780 sq. yds
Total to date, No. 20
Sq. Yards.
District No. 26, Mary 2,407.40 District No. 27, Ashley 7,710.88
District No. 20, Oswege and Hill
Total
Supplies, repairs, etc., except as included in foregoing statement: Street account\$ 77.16
Contingent account
Total Supplies, Repairs, etc\$1,195.02
RECAPITULATION.
Street work \$14,077.87 Culverts 132.79 Sidewalks 1,774.00 Crosswalks, extensions, bridges, etc 2,836.44
Inlets, storm water sewers, etc

General work 400.08 Paving 13,627.35 Supplies, repairs, etc 1,195.02
Total \$34,536.18 No. of culverts built
Total No. of notices served
Following is the cost of each of the 20 new crosswalks, with their appurtenances (including one crosswalk raised and relaid with new extensions), built during the season, so far as the cost properly enters into the year's computation. In most cases the brick and in many cases the iron crossing grates were
old ones, the cost of which has been once charged to the city, and which had been taken out when crosswalks are torn up in the course of new paving work. To get at the exact cost of a crosswalk, which, however, necessarily varies according to the conditions met with in each locality, from \$11.00 to
\$20,00 should be added to the cost mentioned below except where brick and iron grates are specifically charged. The cost of each crosswalk, with its extensions, follows:
Across Norway, east side Ferdon road— \$14.10 Labor \$14.10 Cement, 20 sacks, 5 bbl., at \$0.92 4.60 Gravel, 4 loads, at \$0.25 1.00 Hauling material, city team 4.00
Total
Across alley south side Depot, bet. Detroit st. and 5th av.— Labor
Total
Total\$9.34 (Old brick used.) Across Spring, south side Summit—
Labor
Labor

(Old brick used.) Across alley east side Lincoln bet. Cambridge road and Wells st.—
Labor
Total\$9.69 (Old brick used.) Across First st. north side Summit—
Labor \$14.71 Cement, 15 sacks, 3.75 bbl., at \$0.92 3.75 3 loads gravel, \$0.75; team, \$4.00 4.75
Total\$22.91 (Old brick used.) Across Fountain south side Felch—
Labor
Total\$15.23 (Old brick used.) Across Summit west side Fountain—
Labor \$12.20 Cement, 12 sacks, 3 bbl., at \$0.92 2.76 Gravel, 2 loads, \$0.50; team, \$3.00 3.50
Total\$18.46 (Old brick used.) Across Spring south side Cherry—
Labor
Total\$26.25 (Old brick used.) Across Catherine bet. Glen av. and Clark st.—
Labor
Total\$18.82 (Old brick used.) Across Olivia south side Cambridge road—
Labor
Total\$34.51 Across Geddes west side Observatory, (including long extension or cement sidewalk across park at intersection)—
Labor (includes hauling)
Total\$41.41 (Old brick used.) Across 4th av. north side Summit (new extensions and raising crosswalk)—
Labor
Total
Labor

Gravel, 2 loads, \$0.50; team, \$3.00		
Total		
9 sacks cement, 2.25 bbl., at \$0.92	.80	
2 loads gravel, \$0.50; 600 brick, \$10.20	.70	
Team 4	.00	
Total\$26	.57	
Across Benjamin, west side Sybil— Labor\$12	60	
12 sacks cement, 3 bbl. at \$0.92	.76	
3 gravel, \$0.75; 900 brick, \$15.30 16		
Team 4	.50	
Total\$35	.91	
Across Stoll (2 crosswalks) east and west sides Brown street— Labor\$10	20	
24 sacks cement, 6 bbl. at \$0.92	.92	
1.800 brick, at \$17.00 per M		
	.00	
Total\$46 Across 4th av. north of Beakes street—	.71	
Labor	.69	
Cement, 10 sacks, 2.5 bbl., at \$0.92	.30	
2 loads gravel, \$0.50; team, \$3.00	.50	
Total\$12 (Old brick used.)	.49	
Across alley Cambridge road bet. Forest and Olivia—(no extensions)		
Labor	.75	
Total\$5 (Old brick used.)	.25	
GRAVEL ACCOUNT.		
Streets— Loa		
Graveling and patching in the several wards,		
Total	258	
2 1-6 cars bank gravel from Chilson		
Total	147	
Repairs and raising sidewalks	37	
Culvert Edwin street	10	
Paving work—		
Mary st. paving No. 26		
Ashley st. paving No. 27	025	
	477	
10191		
Total		
RECAPITULATION.		
RECAPITULATION. Street work	177	

COST OF GRAVEL. Cost of gravel (not including paving work):	
Cost of gravel (not including paving work): 1,258 loads on streets\$232.20 194 loads extensions, culvert, repairs sidewalks, etc 61.29	\$289.40
Following is a detailed statement of the cement bought under of the board and the purposes for which it was used:	order of
Bbls	
On hand Jan. 1, 1912 Bought on contract: May 175 July 175 agust 1665 September 1095 October 707	103.25
Total	
3777.5	
Bought from Benz Bros 87.5	3865.00
Total Used as follows: Paving— Bbls.	3968.25 Bbls.
Mary st. No. 26 702.75	
Ashley st. No. 27	3372.25
Curbing— 50.25 No. 26 Thompson 50.25 No. 27, Richmond 110.00 No. 27, Richmond 5.00 Sacks.	165.25
Park board 246	
Sidewalk repairs	
Repairs con. pavement, 3 block pavement, 5	
Extension and crosswalk (by contract)	
Sold 174	
(Clark, 40; Koch Bros., 62; Sauer, 60; Major, 12.)	
Total sacks	$\frac{405.75}{25.00}$
Total barrels	3968.25 er.
I two-wheeled scraper\$	25.00
1 mixing board	3.00
2 hand saws	2.00
3 tool boxes	$\begin{smallmatrix}9.00\\1.50\end{smallmatrix}$
1 mortar box	$\frac{1.50}{4.50}$
3 cement shovels	3.00
3 tamps	2.00
7 iron crow bars	$rac{3.50}{1.50}$
3 wrenches	$\begin{array}{c} 1.50 \\ 0.75 \end{array}$
2 hatchets, \$1.50; 2 axes, \$1.00	2.50
2 pounders, wood,	1.00

1 pump	10.00
1 pair bobs	20.00
2 street sweepers	350.00
z street sweepers	
Stencil and alphabet	1.00
1 hack	5.00
2 road scrapers	100.00
20 snow plows	300.00
1 steel snow plow (Moore)	25.00
	150.00
	24.00
1 steam road roller	1000.00
4 picks	2.00
1 50-gal. gasoline can	4.00
1 60-gal. kerosine oil can	4.00
3 5-gal. oil and gasoline cans	1.50
5 5-gal. On and gasonine cans	1.00
4 2-gal. and one-gal. cans	
Tools for filling brooms for sweepers	9.00
2 pails	0.50
1 sidewalk building outfit	8.00
1 tar wagon	45.00
1 sand wagon	25.00
1 stone fork	0.60
2 paving hammers	1.00
2 brick hammers	1.00
150 feet hose	12.00
1 street drag	20.00
10 wood horses for blocking streets	10.00
50 sewer jacks	25.00
1 rooter	8.00
8 bdls. bamboo splints	17.75
8 street brushes	3.25
3 steel trowels	1.50
	3.00
1 stencil for marking cement, and letters	6.00
20 empty barrels	18.00
2 ladders	2.00
1 bale hickory splints	2.00
6 street sweeper brooms	60.00
	11.25
3 canvass for covering cement	
20 lbs. bolts	1.00
Paint brushes	2.00
4 spindles for street sweeper brooms	12.00
3 large plows	6.00
2 sand screens	4.00
1 cross cut saw; 1 one-man saw	$\frac{1.00}{2.50}$
1 sprinkling wagon	150.00
3 carts	90.00
2 dump wagons	200.00
1 bolt cutter	1.00
Bits and brace	3.00
19 red lanterns	12.35
	1.00
2 levels	
Bag Carrier	2.50
15 steel wheelbarrows	52.50
8 grub hoes	4.00
4 scythes and snaths	4.00
2 snaths	0.50
1 sidewalk roller	5.00
1 iron vice and bench	3.00
1 set platform scales	150.00
1 lot sewer rods	85.00
1 tool box on wheels	20.00
1 Advance cement mixer	100.00
1 batch mixer	25.00
I mater mater	20.00

2 Foote continuous mixers 1 grindstone 4 closets 12 street shovels 5 tar cans 1 lot rope 1 lot 3-4" and 1" gal. iron pipe and fittings 2 garbage wagons	$1200.00 \\ 4.00 \\ 16.00 \\ 6.00 \\ 7.50 \\ 4.00 \\ 50.00$
2 Knowell's street scrapers	5.00
3 steel ice cleaners	1.50
1 hoe 6 Berry street brushes	0.50
6 Berry street brushes	5.00
Total\$	4581.95
Correct: J. WISNER, Street Commissioner.	1001.00
Ann Arbor, Mich., Jan. 2, 1913.	;
INVENTORY BUILDING MATERIAL, ETC.	
25 bbl cement\$	
10 loads sidewalk stone	25.00
6000 ft. bridge timber, old	40.00
15 turned posts	7.50
50 12' wing bars for culverts	17.00
80 lbs. nails and spikes	2.00
500 ft. 4"x4" pine lumber	$7.50 \\ 15.00$
1 lot, abt. 81 pc. old sewer pipe, 30", 20", 24", 8", 18" and 15"	60.00
1 lot 15", 18" and 20" tile	53.36
1 lot 4", 6" L, 6" T, 6", 6" curve, 12" Y and T, 12" L	22.05
300 wood paving blocks	5.00
1-2 ton old bridge iron	4.00
1 pc. 8" iron pipe	4.00
14 old manhole frames	70.00
3 spill grates	3.50
1 lot cobble and fence stone	10.00
4700' oak plank	130.00
Total\$ Correct: J. WISNER, Street Commissioner. Ann Arbor, Mich., Jan. 2, 1913.	498.91