

Council Chamber, Ann Arbor, Mich.,  
April 10, 1913. Regular Session.

Meeting called to order by the president. Present: Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Absent: Ald. Koernke, 1. Minutes of previous meeting approved.

#### Communications.

From the Mayor—  
Mayor's Office, Ann Arbor, Mich.,  
April 10, 1913.

The Honorable Common Council: Gentlemen:—As this meeting marks the end of my official relation with your Honorable Body, I desire to take this opportunity to thank you, and the different boards and city officials who have served with me during my terms as Mayor, for the careful manner in which they have assisted in transacting city business and for the support you have given me, and I bespeak for my successor the same support that you gave me, for it is only by working together in harmony that city officials can hope to accomplish much for their city. With three of the Aldermen I have been associated during my six years as a city official, and with most of the others during the last four years. I am glad to state that these associations have been most friendly to me and while we have not always agreed upon all matters pertaining to city affairs and some times some of us have had decided differences of opinions, yet I believe that these differences were official and not personal, and I hope that I have the same personal regard and friendship of you all as I entertain for each of you.

During the past four years I know that the members of the council have worked hard for the city's interest and I do not believe that our citizens appreciate how much time their city officials devote to city affairs. During that time there were a number of improvements that I would like to have seen made but as the amount of money that could be raised was limited and as I had been opposed to expending more than could be appropriated I knew the improvements could not be made. While I believe that a low tax rate is the best advertisement that a city can have yet the rate should not be so low as to retard necessary improvements. Four years ago when I assumed the office of Mayor I did not realize the time

and work the office would require. I soon found out, however, that to keep in touch with the various branches of activity in city affairs was a task large enough to take up a great deal of my time, but with the assistance of able and careful officials including your Honorable body and the different boards, we succeeded in promoting the city's welfare and I believe that much has been accomplished with the means at our disposal.

Yours very respectfully, William L. Walz, Mayor.

Received, and on motion of Ald. Manwaring, ordered on file and printed in the minutes.

Ann Arbor, Mich., April 10, 1913.

Wm. Walz, Mayor, and the Honorable Common Council: I hereby send in my resignation as a member of Board of Public Works.

Yours very respectfully, George W. Hubbard.

Moved by Ald. Ramsay, that resignation be accepted.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

Communication from Wm. W. Welch, secretary of Civic association, thanking council for use of committee room, received and ordered on file.

Ann Arbor, April 4, 1913.

Memoranda of Questions and Answers Relative to Railroad Spur from the Michigan Central to the University Power House and Store House:

Questions by the combined committees on Streets, Railroads and Sewers.

1. What kind of street crossing would be installed? Plank, brick or cement, whatever is required by the city.

2. Who will maintain the street crossings? The University.

3. In what condition will the road be kept? Orderly, free from weeds and rubbish.

4. What speed limit is proposed? Same as required from the D. U. R., for automobiles and other vehicles.

5. What kind of bridges is it proposed to erect? Reinforced concrete plainly ornamental.

6. What will be the span of the bridges? Width of present roadway, plans to be submitted for approval.

7. Who will maintain the bridges? The University.

8. What type of trolley construc-

tion is it proposed to use? Overhead, it being considered safer.

9. Who will light the street crossings? The city.

10. Liability in case of accident? Controlled by State law.

Memoranda of questions and answers, relative to railroad spur from the Michigan Central to the University power house and store house, received and referred to the Special committee.

Detroit, Mich., March 26, 1913.

To the Honorable Common Council, City of Ann Arbor, Mich.: Gentlemen—Enclosed herewith you will please find a blue print copy of our drawings No. 3564-1, showing the layout of tracks which we wish to construct into our property on Huron st., Ann Arbor, which was formerly the armory property. We hereby request your Honorable Body to grant the necessary permit for the installation of the tracks in the public highway. Trusting that you will take prompt and favorable action in this matter, we remain,

Yours very truly, by J. Kerwin, Superintendent of Tracks.

Moved by Ald. Lindenschmitt, that it be referred to the Railway committee. Adopted.

#### Petitions.

Of H. J. Schlemmer, et al, for light on Third st., received and referred to Lighting committee.

Of T. F. Rankin, et al, for light on Oswego st, received and referred to Lighting committee.

Of Oretha Brown et al, for sewer on South Fourth av., received and referred to Sewer committee.

Of Arthur J. Decker, et al, for discontinuing alley, beginning at Oakland av., running south between Church st. and E. University av., received and referred to Street committee.

Of Carl Stoll, et al, for sidewalk on north side of Hill st., and crosswalk extended to connect with west side of S. Fourth av., received and referred to Sidewalk committee.

Of Adolph G. Neithamer, et al, for delay of paving W. Huron st., until poles on said street are removed, received and referred to Street committee.

To the Common Council: Gentlemen—The undersigned property owners in the following district, Roosevelt av., between Forest av. and Church st. within the city of Ann Arbor, Michigan, respectfully petition your honorable body to cause said

street to be graded and paved. This petition is signed with the understanding that the city pays 20 per cent of the cost of said pavement. We prefer pavement similar to that on Maynard st.

Owner of property, J. P. Judson; number of feet owned, 244.

Received and following resolution presented:

By Ald. Lindenschmitt: Whereas, This common council has been applied to in writing by a majority of the owners of the lands which are liable to be assessed for the payment of the construction of the same, praying for the grading and paving of Roosevelt av. between Forest av. and Church st., within the corporate limits of the city of Ann Arbor, Michigan; and

Whereas, the grading and paving of that part of Roosevelt av. within the limits aforesaid, is deemed and declared to be a necessary public improvement; therefore

Resolved, that it is hereby declared to be the purpose of the Common Council to cause Roosevelt av., within the limits aforesaid, to be graded and paved under the charter and ordinances of the city of Ann Arbor, and in pursuance of the prayer of said petitioners.

Resolved, further, that the cost and expense of the construction of such public improvement shall be charged, assessed and paid as follows: All street and public alley intersections, engineering expenses and twenty per cent of the remaining shall be paid by the city, and the remainder shall be assessed and paid by special assessment levied and assessed according to benefits on and against all the lands, tenements and premises lying on or fronting Roosevelt av. within the limits aforesaid.

Resolved, further, that the said petition, along with this determination, be and the same is hereby referred to the Board of Public Works with directions to report to the Council with all convenient dispatch suitable plans with specifications for the said proposed improvement, the kind and quality of material to be used therefor, together with an estimate of the probable cost and expenses of such public improvement.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsey, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

Petition of Hudson T. Morton, et al, to abolish Sprinkling district No. 11 received and ordered on file.

Moved by Ald. Schultz that petition be granted.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

Petition of C. B. Kinyon, et al, to abolish Sprinkling district No. 13 received and ordered on file.

Moved by Ald. Schultz that petition to abolish Sprinkling district No. 13 be granted.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

Petition of Wm. J. Booth and required number of foot frontage property owners asking that a sprinkling district be established as follows: On Huron st. from Fifth av. to State st.; on State st. from Huron to William sts.; on William st. from State st. to Fifth av.; on Fifth av., from William to Huron sts., on Liberty st. from Fifth av. to State st.; on Washington st., from Division to State st.; on Huron st. from State to Twelfth sts.; on Twelfth st. from Huron st. to N. University av.; on N. University av. from State st. to E. University av.; on State st. from S. University av. to William st.; on Washington st. from State sts. to Twelfth st.; on Jefferson st. from State to Maynard sts.

Moved by Ald. Schultz that petition be accepted and referred to city assessor to lay out and establish same, to be known as Sprinkling district No. 11.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

Petition of Carl Braun and the required number of foot frontage property owners asking that a sprinkling district be established as follows: on Oakland av. from Hill st. to E. University av.; on Arch st. from Oakland av. to Packard st., on E. University av. from Tappan to Hill sts.; on Hill st. from Oakland av. to Church st.; on Ingalls st. from Hill to Monroe sts.; on Twelfth st. from Hill to Monroe sts.; on Monroe st. from Ingalls to Twelfth sts.

Moved by Ald. Schultz, that petition be accepted and referred to city assessor to lay out and establish same

to be known as Sprinkling district No. 13.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

Petition of Margaret Morrison, asking compensation for physical injuries claimed to have been received from stepping upon ice on north side of Summit st., received and referred to city attorney.

Sugden Drug Co. presented druggist's bond, which was referred to the Bond committee.

### Committee Reports.

#### FINANCE REPORT.

Ann Arbor, Mich. April 8, 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.

#### Contingent Fund.

Ross Granger, salary and clerk hire	\$166.66
Eugene G. Mann, salary and clerk hire	108.33
Edward W. Seyler, salary	125.00
John W. Dwyer, salary	83.33
John A. Wessinger, salary	50.00
M. E. Easterly, salary	50.00
Napoleon Brough, salary	50.00
Geo. F. Muehlig, salary	25.00
M. C. Ryan, salary	30.00
Edward Besch, collecting garbage	300.00

Total salaries and services .....\$988.32

#### Fire Fund.

Chas. J. Andrews, salary	\$ 41.66
Eugene Williams, salary	38.50
Geo. Hoelzle, salary	38.50
Ralph Edwards, salary	38.50
Henry McLaren, salary	36.50
Fred Jolly, salary	36.50
Jacob Gwinner, 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	35.00
James Smith, salary	35.00
Frank Markey, salary	35.00
Thomas Shamp, salary	35.00
Clyde Carpenter, salary	30.00
Chas. Carroll, salary	23.00
Frank Kapp, salary	23.00

Total salaries for 1-2 month of

March .....\$691.16

#### Police Fund.

Theo. C. Apfel, salary	\$ 41.66
Thos. O'Brien, salary	40.00
Wm. J. Aprill, salary	35.00
Gustave Meyer, salary	35.00
Wm. Blackburn, salary	35.00
Rex Earnett, salary	35.00

Edw. Kuhn, salary .....	35.00
Reuben Armbruster, salary .....	35.00

Total salaries for 1-2 month of  
March .....

<b>Poor Fund.</b>	
J. H. Shadford, salary .....	\$35.00
<b>Cemetery Fund.</b>	
Matthias Luippold, salary .....	\$40.00
<b>Bridge, Culvert &amp; Crosswalk Fund.</b>	
John Wisner, salary .....	\$125.00
Manley Osgood, salary .....	125.00
R. D. VanDyke, salary .....	85.00
R. M. Caughey, salary .....	60.00

Total .....

<b>Recapitulation of Salaries.</b>	
Contingent fund .....	\$988.32
Fire .....	691.16
Police .....	291.65
Poor .....	35.00
Cemetery .....	40.00
Bridge, cul. and crosswalk .....	395.00

Total .....

<b>Contingent Fund.</b>	
<b>Registration and Election.</b>	
Henry Hochrein, services .....	\$25.00
E. B. Manwaring, services .....	25.00
Jas. D. Ramsay, services .....	25.00
John Lindenschmitt, services .....	25.00
Wm. Schultz, services .....	25.00
Theo. Prochnow, services .....	25.00
Henry Pipp, services .....	25.00
Chas. R. Rash, services .....	25.00
George Lutz, services .....	25.00
Sid. W. Millard, services .....	15.00
E. D. Hiscock, services .....	15.00
Frank Pardon, services .....	15.00
Herman Krapf, services .....	15.00
Channing Smith, services .....	15.00

<b>Registration.</b>	
Erwin Schmid, services .....	\$15.00
Carl Boehnke, services .....	9.00
Wm. P. Flynn, services .....	15.00
I. L. Sherk, services .....	15.00
Christian Schlenker, services .....	9.00
August Dorow, services .....	9.00
James Finnell, services .....	9.00

<b>Election.</b>	
T. P. Stowe, services .....	\$5.00
Hugo E. Mann, services .....	6.00
John Baumgardner, services .....	6.00
W. T. Hollands, services .....	6.00
Alfred F. Staeb, services .....	6.00
Wm. Baird, services .....	3.00
W. A. Morris, services .....	3.00
Otto Haab, services .....	6.00
Rudolph Reichert, services .....	6.00
Roy B. Hiscock, services .....	6.00
Harry W. Gross, services .....	6.00
John Gehring, services .....	6.00
Fred Huhn, services .....	3.00
Christian Walz, services .....	3.00
Gustave Steinke, services .....	6.00
C. J. Reul, services .....	6.00
Wm. F. Armstrong, services .....	6.00
Carl Lehman, services .....	6.00
F. J. Cambion, services .....	6.00
Carl F. Schultz, services .....	3.00
Thomas Burke, services .....	3.00
John W. Markey, services .....	6.00
H. B. Dodsley, services .....	6.00
Wm. Krapf, services .....	6.00
C. L. Staffan, services .....	6.00
Geo. H. Miller, services .....	6.00
G. Gaiser, services .....	3.00

Michael Hession, services .....	3.00
John E. Kranich, services .....	6.00
Chas. H. LaVear, services .....	6.00
Jay C. Taylor, services .....	6.00
E. W. Hatch, Jr., services .....	6.00
Wm. Pommerening, services .....	6.00
Jacob Kalmbach, services .....	3.00
Nicholas Miller, services .....	3.00
J. W. Bennett, services .....	6.00
Chas. F. Pardon, services .....	6.00
Wm. Biggs, services .....	6.00
Jas. V. Palmer, services .....	6.00
A. B. iWines, services .....	3.00
E. D. Jaqua, services .....	3.00
Jas. N. Galbraith, services .....	6.00
E. L. Jenkins, services .....	6.00
J. L. O'Hara, services .....	6.00
John Young, services .....	6.00
Wm. Aubrey, services .....	6.00
Sebastian Seyfried, services .....	3.00
Geo. Schlemmer, services .....	3.00
Sid. W. Millard, printing .....	70.50
Davis & Ohlinger, printing .....	8.75
Gillette Co., posting notices .....	7.00
Washtenaw Post, printing .....	15.82
W. H. L. Rohde, wood .....	2.85
C. H. Heck & Son, wood .....	1.00
Henry Hochrein, meals .....	7.00
E. D. Little, meals .....	7.00
Joe Parker, meals .....	19.30
Mrs. C. A. Ranson, meals .....	10.00
Martin Davenport, labor .....	6.00
E. D. Easterly, labor .....	6.00
John Conde, cartage .....	1.00

Total registration and election .....	\$795.22
Washtenaw Gas Co., city hall .....	\$ 1.15
Eastern Mich. Edison Co., city hall and clock .....	34.32
Mich. State Tel. Co., tolls .....	1.55
Washtenaw Electric Shop, supplies ..	4.93
Miss Winona Saunders, services .....	60.00
Francis T. Dwyer, services .....	2.00
Dr. F. R. Waldron, services .....	5.00
Arthur P. Hicks, trustee voting machines .....	214.00
The Richmond & Backus Co., supplies ..	3.98
George Wahr, supplies .....	22.45
Mack & Co., supplies .....	32.90
Eberbach & Son Co., supplies .....	21.61
Mayer, Schoettle & Schairer Co., supplies .....	14.90
Christian Schlenker, supplies .....	31.00
The Times News Co., printing .....	172.75
Wm. P. Flynn, auto .....	4.50
Ann Arbor Garage, autos .....	25.50
Ross Granger, express paid .....	.55

Total supplies, etc. .... \$653.09  
Contingent fund including salaries .....

<b>Fire Fund.</b>	
Jos. Seabolt, substitute .....	\$5.00
Washtenaw Gas Co., light, etc. ....	9.32
Eastern Mich. Edison Co., light .....	5.87
White Swan Laundry Co., laundry .....	21.07
Fire and Water Engineering, subscrip- tion .....	3.00
Burden Broom Co., supplies .....	7.50
Chas. A. Sauer & Co., supplies .....	7.35
B. E. Muehlig, supplies .....	3.07
The Brown Drug Store, supplies .....	1.85
Muehlig & Schmid, supplies .....	3.35
Schumacher Hardware Co., supplies ..	3.70
Jno. C. Fischer Co., supplies .....	1.89
Dean & Co., Ltd., supplies .....	5.25
John Frederick, hay .....	11.94

Julius Beecher, hay .....	20.52	Wm. Kuehn, labor .....	10.98
Michigan Milling Co., bran.....	6.00	Ed. Little, labor .....	29.59
Benz Bros., oil meal .....	1.90	G. J. Mack, labor .....	28.56
E. M. Wurster, repairs, etc.....	14.20	Nick Manos, labor .....	20.13
D. J. Malloy, repairs .....	2.25	C. D. Mead, labor .....	6.00
C. W. Cornell, horseshoeing .....	5.20	Geo. Miley, labor .....	17.22
Seybold & Esslinger, horseshoeing, etc.....	22.10	Bill Papas, labor .....	10.50
		John Papas, labor .....	12.50
Total supplies, etc.....	\$162.33	T. Pemberton, labor .....	27.25
Fire fund including salaries.....	\$853.49	Chas. Reick, labor .....	14.75
<b>Police Fund.</b>			
The Detective Publishing Co., raincoats .....	\$26.50	Geo. Roberts, labor .....	12.33
Schumacher Hardware Co., supplies..	5.40	Geo. Schaible, labor .....	43.13
D. J. Malloy, supplies .....	.90	Pete Skedas, labor .....	11.50
Michigan State Telephone Co., tolls.	1.65	Much. Soldatis, labor .....	20.88
Polhemus Transfer Line, liveries.....	2.00	Adam Stoll, labor .....	31.38
Ann Arbor Taxicab Co., liveries.....	10.75	John Thomas, labor .....	10.22
Ed. Kuhn, liveries .....	3.00	Jos. Wallacker, labor .....	28.13
Theo. C. Apfel, supplies paid.....	.75	Glen Winans, labor .....	2.38
		Geo. Wisner, labor .....	13.97
Total supplies, etc.....	\$50.95	Joe Youngbauer, labor.....	39.20
Police fund including salaries.....	\$342.61	C. C. Bargdill, team .....	39.50
<b>Poor Fund.</b>			
Schultz Bros., supplies .....	\$27.40	R. S. Ellis, team .....	9.00
Geo. P. Ottley, supplies .....	2.82	S. A. Elsifor, team .....	51.30
Theurer & Walker, supplies .....	15.12	Fred G. Hanselman, team .....	8.50
Anna Ladd, for Old Ladies' Home...	3.50	John U. Huber, team .....	10.84
Geo. W. Weeks, coal .....	4.63	Koch Bros., team .....	6.00
Rehberg & Son, hauling wood .....	9.75	Mrs. Herman Marquardt, team .....	59.50
John Brough, hauling wood .....	2.00	John McHugh, team .....	17.25
Ziefle & Nissle, supplies .....	1.50	G. L. Mullison, team .....	18.75
U. of M. hospital, supplies .....	4.15	H. C. Perkins, team .....	6.25
Quarry Drug Co., supplies .....	4.80	V. G. Richards, team .....	15.25
Mann & Walker, supplies .....	.45	E. R. Schaffer, team .....	10.00
Enoch Dieterle, ambulance call .....	2.00	Walter Schneider, team .....	9.00
		W. H. Seeley, team .....	30.00
Total supplies, etc.....	\$78.12	C. J. Snyder & Sons, team .....	6.00
Poor fund, including salary .....	\$113.12	A. M. Steffen, team .....	31.75
<b>Dog License Fund.</b>			
Wm. Temple, slaying dogs .....	\$4.00	U. of M. Athletic Asso., team.....	2.00
<b>Street Lighting Fund.</b>			
Eastern Michigan Edison Co., light .....	\$1,265.09	G. W. Weeks, team .....	5.00
<b>Park Fund.</b>			
Wm. Clark, labor .....	\$ 2.25	M. M. Wheelock, team .....	7.00
S. A. Elsifor, team .....	4.50	Jos. Williams, team .....	2.50
A. D. Gridley, labor .....	3.25	Grant Young, team .....	4.50
Jos. Harvey, labor .....	1.13		
T. Pemberton, labor .....	1.00	Total labor Ct. Commr's dept.....	\$978.11
Mich. Soldatis labor .....	1.00	Don W. Bingham, labor .....	\$ 7.05
Adam Stoll, labor .....	2.13	W. R. Drury, labor .....	41.40
		W. A. Grove, labor .....	4.35
Park fund total .....	\$15.26		
<b>Bridge, Culvert and Crosswalk Fund.</b>			
Sam. Adams, labor .....	\$18.89	Total Eng. dept.....	\$52.80
Pete Bacatas, labor .....	9.00	Keuffel & Esser Co., supplies .....	\$ 3.20
T. Casterlne, labor .....	2.00	J. I. Holcomb Mfg. Co., supplies.....	22.80
Wm. Clark, labor .....	36.38	Jno. C. Fischer Co., supplies .....	13.62
Leo. Cornell, labor .....	6.45	Christian Schlenker, supplies .....	9.60
John Dalgliesh, labor .....	25.44	Schumacher Hardware Co., supplies.	12.60
Cottlob Finkbeiner, labor .....	6.00	Michigan Milling Co., supplies.....	7.24
Jos. H. Gloeser, labor .....	14.94	Standard Oil Co., supplies .....	4.00
Frank Goff, labor .....	1.78	E. M. Wurster, repairs .....	10.09
Jacob Graf, labor .....	11.00	Wm. R. Schneider, repairs .....	1.50
Wm. Graf, labor .....	7.56	Seybold & Esslinger, repairs, etc....	19.05
A. D. Gridley, labor .....	7.88	Mich. Cent. Railroad Co., freight....	.67
Jos. Harvey, labor .....	22.13		
Aug. Hermann, labor .....	4.00	Total supplies, etc.....	\$104.28
Mike Hession, labor .....	27.56	<b>Steere Farm Expenses.</b>	
John Holka, labor .....	4.89	L. G. Kepner, labor .....	\$ 35.00
John Jameson, labor .....	2.60	Julius Loehrke, labor .....	57.00
Geo. Johnson, labor .....	4.00	R. D. VanDyke, labor .....	21.41
Sam. Kalmbach, labor .....	23.34	Chas. Wagner, labor with engine...	220.00
Paul Katapolis, labor .....	2.38	Otto Wagner, labor with engine...	220.00
		Henion & Hubbell, supplies .....	18.50
		Muehlig & Schmid, supplies .....	32.95
		Jno. C. Fischer Co., supplies .....	39.75
		Schumacher Hardware Co., supplies..	1.65
		Eberbach & Son Co., supplies .....	19.40
		Luick Bros. & Co., supplies .....	36.54
		Benz Bros., supplies .....	15.89
		Dean & Co., Ltd., supplies .....	2.65

Staebler & Son, coal and cartage...	23.50
Washtenaw Electric Shop, supplies...	2.50
Michigan State Tel. Co., installing phone .....	5.00
Holmes Livery, board of horse, etc...	20.94
Robison & Co., use of horse.....	62.00
Seybold & Esslinger, horseshoeing..	3.80
John Volz, repairs .....	1.10
Schumacher & Backhaus, labor and supplies .....	34.92
Hochrein & Reimold, labor and sup- plies .....	165.06
E. P. Decker & Co., rental of pumps, etc.....	239.00
J. B. Steere, use of buildings, etc...	10.00
Manley Osgood, expenses paid.....	1.39

Total expenses Steere farm ... \$1,289.95  
 Bridge, cul. & crosswalk fund,  
 including salaries ..... \$2,820.14

**Recapitulation.**

Contingent ... ..	\$2,436.63
Fire .....	853.49
Police .....	342.61
Poor.....	113.12
Dog License.....	4.00
Cemetery .....	40.00
Street lighting.....	1,235.09
Park.....	15.26
Bridge, cul. & crosswalk .....	2820.14

Total ..... \$7,890.34  
 Ann Arbor, Mich., April 10, 1913.

To the Honorable, the Common Council:  
 Gentlemen—Your Finance committee have reviewed the foregoing report of the city clerk. Warrants for salaries were drawn April 1, 1913. We recommend that same be approved and that warrants be ordered drawn for the foregoing accounts.  
 George Lutz, E. Schmid, Finance Commit-  
 tee.

Ald Lutz moved the adoption of the report.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pros. Mills, 13. Nays, none.

**Ordinance Committee.**

Ald. Manwaring presented an ordinance to amend an ordinance entitled, "An ordinance relative to fire limits and fires," which was given its third reading as follows:

AN ORDINANCE TO AMEND AN ORDINANCE ENTITLED, "AN ORDINANCE RELATIVE TO FIRE LIMITS AND FIRES." PASSED OCTOBER 7, 1895. APPROVED OCTOBER 12, 1895; AMENDED JUNE 4, 1900; AMENDED MARCH 19, 1906; AMENDED DECEMBER 3, 1906; AMENDED AUGUST 21, 1911.

The Common Council of the City of Ann Arbor Ordain:

Sec. 1. That section 1 of an ordinance entitled, "An ordinance relative to fire limits and fires," passed October 7, 1895; approved October 12,

1895; amended June 4, 1900; amended March 19, 1906; amended December 3, 1906; amended August 21, 1911; be and the same is hereby amended to read as follows:

Sec. 1. No person, firm or corporation shall hereafter place, enlarge or erect any building or other structure on any lot or part of a lot fronting on any of the following streets or parts of streets, to wit: On Main st., between Kingsley and William sts.; on Huron st., between Ann Arbor Railroad right of way and Fifth av., on Washington st., between the Ann Arbor railroad and Fifth av., on Liberty st., between the Ann Arbor railroad and State st.; on Catherine st., between Ashley st. and Fifth av.; on Ann st., between Ashley st. and Fifth av.; on Fourth av., between Kingsley and Liberty sts.; on the west side of Fifth av., between Kingsley and Liberty sts.; on Ashley st., between Catherine and William sts.; on State st. between William and Ann sts.; on William st., between State and Maynard sts.; on Maynard st., between William and Liberty sts.; on the south side of Liberty st., between Maynard and State sts.; on Detroit st., between Fourth av. and Depot st.; on the block bounded as follows to-wit: on the north by Fuller street, on the south by Kingsey st., on the east by North State st. and on the west by Elizabeth st.; on North University ave.; between South State and South Thayer sts.; on State st. from Huron to Ann sts.; and on south side of Huron st. from First st. to Ann Arbor Railroad right of way, in this city, unless such building or such other structure shall be constructed of stone, reinforced concrete, brick or with party or fire walls of the same material.

Provided, that the board of fire commissioners may, in its discretion, grant permission for the erection within said limits of buldings or other structures veneered wth brick, and for the erection of frame buildings, dwellings, barns and outhouses in and on all of that part of the above described district lying north of Catherine st., west of Ashley st., south of Liberty st., and on State st., between Liberty and Huron sts.

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

The Chair put the question, "Shall this ordinance pass?"

Passed by following vote: Yeas, Ald. Schmid, Hochrein, Flynn, Man-

waring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

Ald. Manwaring presented an ordinance entitled, "An ordinance relative to Street sprinkling," which was given its first reading by title, passed to and given its second reading, and referred to the Ordinance committee by following vote: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

Ald. Manwaring presented an ordinance to amend Section 3 of an ordinance entitled, "An ordinance regulating the posting of bills, tacking and painting of signs, and the circulation of advertising matter and sample packages, to license bill posters and to regulate their manner of doing business in the city of Ann Arbor," which was given its first reading by title, passed to and given its second reading and referred to Ordinance committee by following vote: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

#### Sewer Committee.

Engineer's estimates and boundaries of Sanitary sewers Nos. 51, 52 and 53 presented as follows:

Ann Arbor, Mich., April 10, 1913.

To the Hon. Common Council, Ann Arbor, Mich.: Sirs—I herewith submit plans, specifications and approximate estimate of sanitary sewer on Summit st., from manhole at Main and Summit sts., west to Spring st.:

470 ft. excavation 6 to 8 ft. deep at 45c .....	\$ 211.50
830 ft. excavation 8 to 10 ft. deep at 60c .....	498.00
1218 ft. 8 in. vitrified sewer pipe at 20c .....	243.60
5 manholes complete at \$35.00 .....	175.00
1 flush tank complete .....	70.00
1 light hole cover .....	4.00
47 8 in. x 4 in. Ys at 70c ..	32.90
2 8 in. x 4 in. Ts at 70c ....	1.40

Total .. .. .	\$1,236.40
Engineering and laying tile at 10 per cent .....	123.64

Total cost .....	\$1,360.04
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City to pay for:

94 ft. excavation 6-8 ft. deep at 45c .....	\$42.30
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87 ft. excavation 8-10 ft. deep at 60c ....	52.20
181 ft. 8 in. vitrified sewer pipe at 20c ....	36.20
1 manhole complete .....	35.00

Total for city to pay .....	165.70
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Property owners to pay ....	\$1,194.34
Respectfully submitted, Manley Os- good, City Engineer.	

Ann Arbor, Mich., April 10th, 1913.

To the Hon. Common Council, Ann Arbor, Mich.: Sirs—I herewith submit plans, specifications and approximate estimate of sanitary sewer on Hiscock st. from manhole at Miner and Hiscock sts west to Fountain st.

370 ft. excavation 6 to 8 ft. deep at 45c .....	\$ 166.50
344 ft. 8 in. vitrified sewer pipe at 20c .....	68.80
1 flush tank complete .....	60.00
1 light hole cover .....	4.00
18 8 in. x 4 in. Ys at 70c ..	12.60
2 8 in. x 8 in. Ts at 70c ..	1.40

Total .....	\$ 313.30
Engineering and laying tile at 10 per cent .....	31.33

Total cost .....	\$ 344.63
City to pay for:	

28 ft. excavation at 45c .. .. .	\$12.60
28 ft. 8 in. vitrified sewer pipe at 20c .....	5.60

Total .....	18.20
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Property owners to pay ....	\$ 326.43
Respectfully submitted, Manley Os- good, City Engineer.	

Ann Arbor, Mich., April 10th, 1913.

To the Hon. Common Council, Ann Arbor, Mich.: Sirs—I herewith submit plans, specifications, and approximate estimate of sanitary sewer on Crest ave., from Huron st. to the end and on W. Washington st. from manhole at Washington and Ninth sts. to end.

140 ft. excavation 6-8 ft. deep at 45c .....	\$ 63.00
949 ft. excavation 8-10 ft. deep at 60c .....	569.40
1689 ft. excavation 10-13 ft. deep at 85c .....	1435.65
1672 ft. 8 in. vitrified sewer pipe at 20c .....	334.40
4 manholes complete at \$40.00	160.00
2 flush tanks complete at \$65.00 .....	130.00
1 flush tank (syphon furnish- ed by city) at \$21.00 less	44.00

2 light hole covers at \$4.00	8.00
796 ft. 4 in. vitrified sewer pipe at 11c .....	87.56
65 8 in. x 4 in. Ys at 70c....	45.50
6 8 in. x 8 in. Ts at 70c .....	4.20
59 4 in. bends at 28c .....	16.52

Total .....	\$2898.23
Engineering and laying tile at 10 per cent .....	289.82

Total cost .....\$3188.05  
 City to pay for:

66 ft. excavating 6-8 ft. deep at 45c .....	\$29.70
132 ft. excavation 10-13 ft. deep at 85c .....	112.20
198 ft. 8 in. sewer pipe at 20c .....	39.60
1 manhole complete ..	40.00

Total city to pay ..... 221.50

Property owners to pay ....\$2966.55  
 Respectfully submitted, Manly Os-good, City Engineer.

**Sewer Boundaries—Sewer Committee.**

By Ald. Sherk: Resolved, That each and all of the lands, tenements and premises hereinafter mentioned are deemed and declared to be benefited by the construction of lateral sewer No. 51, to the extent of the cost thereof, street crossings excepted, and all such lands shall constitute and all of the said lands hereinafter mentioned is fixed and determined as the district and special district upon and against which shall be assessed and charged all the costs and expenses of construction of such lateral sewer, that is to say:

In Hiscock's Estate Subdivision: Lots 10, 11, 12, 13.

In block 2, Hiscock's 2nd addition: The south 1-2 of the west 50 ft. of lot 1, the east 16 ft. of lot 1. Lots 2, 3 and 4.

In block 1, Hiscock's 2nd addition: The south 1-2 ft of lot 1, lots 2, 3 and 4 and that part of lot 5 lying south of a line parallel to and 100 ft. south of the north line of lot 5.

In block 13, D. Hiscock's 1st addition: The east 1-2 of lot 7, the west 1-2 of lot 8, and the south 1-2 of the east 1-2 lot 8.

In block 12, D. Hiscock's 1st addition: The east 194.5 ft. of lot 1 and the east 104.5 ft. of the north 1-2 of lot 3. Lot 2.

In block 15. D. Hiscock's 1st addition: Lots 1 and 2 and that piece of land bounded by lots 2, 3, 4, Hiscock st. and Summit st.

In sec. 20, T. 2 S., range 6 E. That

land bounded on the northwest by Hiscock st., on the north by Summit st., on the east by Main st., and on the south by Allen's creek and a line parallel to and 132 ft. southwest of Summit st.

Excepting from the above all land owned by the A. A. R. R. and used by them as right of way.

Resolved, further, that this resolution, order and determination be and the same is hereby certified to the City Assessor.

By Ald. Sherk: Resolved, That each and all of the lands, tenements and premises hereinafter mentioned are deemed and declared to be benefited by the construction of lateral sewer No. 52, to the extent of the cost thereof, street crossings excepted, and all such lands shall constitute and all of the said lands hereinafter mentioned is fixed and determined as the district and special district upon and against which shall be assessed and charged all the costs and expenses of construction of such lateral sewer, that is to say:

In D. Hiscock's First addition to the city of Ann Arbor:

In block 1: All of lot No. 1. The west 91.5 ft. of lot No. 2. In block 2: The south 50 ft. of lot No. 11, all of lot No. 12 and the south half of lot No. 13.

Resolved, further, that this resolution, order and determination be and the same is hereby certified to the City Assessor.

By Ald. Sherk: Resolved, That each and all of the lands, tenements and premises hereinafter mentioned are deemed and declared to be benefited by the construction of lateral sewer No. 53, to the extent of the cost thereof, street crossings excepted, and all such lands shall constitute and all of the said lands hereinafter mentioned is fixed and determined as the district and special district upon and against which shall be assessed and charged all the costs and expenses of construction of such lateral sewer, that is to say:

In Huron Crest subdivision in the city of Ann Arbor, Mich: Lots 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46.

North of Huron and between Ninth st. and Huron Crest subdivision:

Land bounded as follows—Beginning at the point where the east line of Huron Crest subdivision intersects the north line of W. Washington st,



thence north 137 ft., thence, east along a line parallel to and 137 ft. north of the north line of Washington st., to a point 132 ft. west of the west line of Ninth st., thence south parallel to the west line of Ninth st. to a point 198 ft. south of the south line of W. Huron st., thence east parallel to the north line of Washington st. to the west line of Ninth st., thence south along the west line of Ninth st. to the north line of Washington st., extended, and west along the north line of Washington st. extended to the place of beginning.

A strip of land bounded as follows: On the west by Huron Crest subdivision, on the north by the south line of Washington st. extended, on the east by the center line of Ninth st. extended south, and on the south by a line parallel to and 132 ft. south of Washington st.

Resolved, further, that this resolution, order and determination be and the same is hereby certified to the City Assessor.

Engineer's estimates and boundary resolutions for Sanitary Sewers Nos. 51, 52 and 53 adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

#### Street Committee.

To the Honorable Common Council: Gentlemen:—Your committee, to whom was referred the joint petition of the University of Michigan and St. Joseph's Sanitarium, respectfully recommend as follows:

1. That the requests of petitioners be granted, except the requests as to sewers, which are to be determined by a separate report of the sewer committee.

2. That the University of Michigan in consideration of the above privileges shall comply with the following conditions:

A. Install plank, brick or cement crossings and cement roadbed between Catherine st. and Heating plant, and maintain the same, and keep them in suitable and safe condition for public travel, and that it will make such changes in said crossings and roadbed as the Common Council may by resolution require.

B. That the cars used on said railway shall be propelled at a rate of speed not exceeding five miles per hour at any of the said street crossings.

C. That all bridges are to be of re-

inforced concrete, and of the width of the street, and plainly ornamental. Plans to be submitted to city for approval. All bridges to be maintained by the University.

D. The type of trolley construction used is to be the overhead system.

E. The University of Michigan, by accepting the privileges granted, hereby binds itself to save the city harmless from all liability on account of any accident arising because of the presence of said railway crossing said streets.

F. The city reserves the power to make such rules, orders or regulations concerning the operation of said railway across said streets, as may from time to time be deemed necessary to protect the safety of the public.

3. All street crossings to be sufficiently lighted by the University.

A. That the city attorney take such proceedings as may be necessary to vacate that portion of Fuller st. mentioned in the petition, and that the Mayor and City Clerk execute a deed of said street to the University of Michigan on receiving from said University or Bishop E. D. Kelly, a good and sufficient deed to the city of the proposed street immediately south, when said new street is properly graded and in condition reasonably safe and fit for travel.

5. All work to be done to the satisfaction of the City Engineer.

6. This report to be binding on both parties when accepted in writing by the Regents of the University of Michigan.

John Lindenschmitt, Theo. W. Prochnow, Chas. R. Rash, Erwin E. Schmidt, E. B. Manwaring, Special Committee.

Ald. Lindenschmitt moved the adoption of the report.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

Ann Arbor, Mich., March 17, 1913.  
To the Hon. Common Council, Ann Arbor, Mich.: Sirs—I present herewith the following estimate of cost of regrading Oswego st. to a grade shown on accompanying plan and profile, as well as cost for completing pavement, either after regrading or as the street is now graded.

To regrade to lines shown on drawing:

748 cu. yds. fill at 60c.....\$448.80

1250 lin. ft. curbing at 22c... 275.00

Total .....\$723.80

To complete paving:

2382 sq. yds. tar-concrete paving at 90c .....\$2143.80

Very respectfully, Manley Osgood, City Engineer.

By Ald. Lindenschmitt: Whereas, in the opinion of the council the grade on Oswego st. ought to be changed and fixed and established, to the end that such street may be made suitable for public travel and traffic, therefore,

Resolved, and it is hereby ordered that the grade on Oswego st., from north line of Hill st. to the south line of Geddes av. be, and the same is hereby changed from the present grade, and fixed and established, so that the grade on and along such street shall be as follows; that is to say:

At the north line of Hill st....	907.37
10 feet north of north line of Hill st. ....	907.95
20 feet north of north line of Hill st. ....	908.60
30 feet north of north line of Hill st. ....	909.33
190 feet north of north line of Hill st. ....	921.57
202.33 feet north of north line of Hill st. ....	922.46
214.66 feet north of north line of Hill st. ....	923.26
227 feet north of north line of Hill st. ....	923.96
241.33 feet north of north line of Hill st. ....	924.66
255.66 feet north of north line of Hill st. ....	925.28
270 feet north of north line of Hill st. ....	925.80
315 feet north of north line of Hill st. ....	927.09
430 feet north of north line of Hill st. ....	930.50
440 feet north of north line of Hill st. ....	930.85
450 feet north of north line of Hill st. ....	931.20
490 feet north of north line of Hill st. ....	932.80
500 feet north of north line of Hill st. ....	933.16
510 feet north of north line of Hill st. ....	933.44
520 feet north of north line of Hill st. ....	933.64
530 feet north of north line of Hill st. ....	933.75
570 feet north of north line of Hill st. ....	934.20
South line of Geddes ave. ....	933.66

The elevation given being above the official city datum and along the center line of said street, and the grade lines to consist of straight lines between the several points or stations above stated, the roadway to conform thereto.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

**W. Huron St. Pavement.**

Ann Arbor, Mich., April 10, 1913.

To the Common Council: Sirs—I herewith submit revised specifications and approximate estimate of the cost of paving West Huron st. from Ashley st. to the Forks. The width of this pavement is to be 40 ft. from Ashley to First sts., 38 feet from First to Seventh sts., and 34 ft from Seventh st. to the Forks. The concrete on slopes greater than 5 per cent. is to be groved to give a good foot hold for horses. This estimate does not include a strip 8.1 ft. wide to be paved by the D. J. & C. Co. throughout the length of their track.

2,800 cu. yds. excavation at 50c .....	\$ 1,400.00
14,010 sq. yds. concrete pavement at 80c .....	11,208.00
8,990 lin. ft. curbing at 22c.	1,977.80
Legal, advertising, engineering, superintendence and tools at 10c per sq. yd...	1,401.00

Total approximate cost . \$15,986.80  
 City to pay for intersections. \$1,517.21  
 and 20 per cent. of the remainder ..... 2,893.92

Total for city to pay ....\$4,411.13  
 Property to pay .....\$11,575.67  
 Respectfully submitted, Manley Osgood, City Engineer.

Specifications for above pavement: **TWO COAT WORK**—Specifications for Ann Arbor Concrete Pavement in the City of Ann Arbor, Michigan.

The general paving specifications, pages 1 to 10 inclusive, shall apply to this work.

Excavation—The Contractor will be required to excavate to such depths and widths as may be ordered by the Engineer, and haul the excavated material to such places as directed, not exceeding one mile. After the excavation has been made the contractor will be required to roll the sub-grade, with a roller weighing not less than 10 tons, to the satisfaction of the Engineer, and shall leave the

sub-grade at a uniform distance below the finished surface of the street.

**Curbing**—Concrete curbing shall be built on both sides of the street, with returns as directed. Curbing shall be 14 inches deep, 6 inches wide on top and 8 inches wide on the bottom, finished 6 inches on the face. The core of the curb shall be composed of concrete, in proportion of one part cement to six parts of gravel, and the face shall be composed of one part cement to two parts of sand. The outside edge of the curb shall be rounded with a nosing tool as directed. Curb and gutter built according to specifications approved by the Street Committee of the common council may be substituted for the above.

**Two Coat Paving**—The paving shall consist of a bottom layer of concrete 5 inches thick composed of one part portland cement to eight parts of sand and gravel, and the top layer shall be composed of portland cement mortar 2 inches thick, made in proportion of one part of cement to two parts of clean sharp sand. The top layer shall be placed within 20 minutes after the bottom layer and shall be immediately struck with a template approved by the City Engineer, and as soon thereafter as practicable, be trowled and broomed as directed. An expansion joint 1-2 inch wide shall be left at each curb and an expansion joint about 1-2 inch wide shall be left every 50 feet transversely of the street.

**Wearing Surface**—After the concrete has thoroughly set and is dry, and clean, there shall be spread a thin coating of hot coal tar or distilled tar of the grade used for road purposes, and before this is dry there shall be spread over the entire tarred surface a uniform layer of sharp sand. The transverse joints shall be filled with asphalt or pitch, care being taken to fill the joint flush with the surface of the pavement.

Moved by Ald. Schmid, that engineer's estimate and specifications be accepted.

Adopted as follows: Yeas, Ald Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochrow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

**Liberty St. Pavement.**

Ann Arbor, Mich., April 10, 1913.

To the Hon. Common Council: Sirs—  
I herewith submit revised specifications and approximate estimate of the

cost of paving West Liberty st. from Ashley st. to the city limits. The width of this pavement is to be as established by present curb from Ashley to First sts., and thirty (30) ft. from First st. to the city limits. The concrete on slopes greater than 5 per cent. is to be groved to give a good foot hold for horses. This estimate contemplates using the curbing already built between Ashley and First sts.

5,140 cu. yds. excavation at 50c .....	\$ 2,570.00
15,545 sq. yds. concrete pavement at 80c .....	12,436.00
8,340 lin. ft. curbing at 22c .....	1,834.80
Legal, advertising, engineering, superintendence and tools at 10c per sq. yd...	1,554.50

Total approximate cost ..	\$18,395.30
City to pay for intersections ..	\$2,224.32
and 20 per cent of the remainder .....	3,234.20

Total for city to pay.....	\$5,458.52
Property to pay.....	\$12,936.78

Respectfully submitted, Manley Osgood, City Engineer.

Specifications for above pavement:  
**TWO COAT WORK**—Specifications for Ann Arbor Concrete Pavement in the City of Ann Arbor, Michigan.

The general paving specifications, pages 1 to 10 inclusive, shall apply to this work.

**Excavation**—The Contractor will be required to excavate to such depths and widths as may be ordered by the Engineer, and haul the excavated material to such places as directed, not exceeding one mile. After the excavation has been made the contractor will be required to roll the sub-grade, with a roller weighing not less than 10 tons, to the satisfaction of the Engineer, and shall leave the sub-grade at a uniform distance below the finished surface of the street.

**Curbing**—Concrete curbing shall be built on both sides of the street, with returns as directed. Curbing shall be 14 inches deep, 6 inches wide on top and 8 inches wide on the bottom, finished 6 inches on the face. The core of the curb shall be composed of concrete, in proportion of one part cement to six parts of gravel, and the face shall be composed of one part cement to two parts of sand. The outside edge of the curb shall be rounded with a nosing tool as directed. Curb and gutter built according to specifications approved by the

Street Committee of the common council may be substituted for the above.

**Two Coat Paving**—The paving shall consist of a bottom layer of concrete 5 inches thick composed of one part portland cement to eight parts of sand and gravel, and the top layer shall be composed of portland cement mortar 2 inches thick, made in proportion of one part of cement to two parts of clean sharp sand. The top layer shall be placed within 20 minutes after the bottom layer and shall be immediately struck with a template approved by the City Engineer, and as soon thereafter as practicable, be trowled and broomed as directed. An expansion joint 1-2 inch wide shall be left at each curb and an expansion joint about 1-2 inch wide shall be left every 50 feet transversely of the street.

**Wearing Surface**—After the concrete has thoroughly set and is dry, and clean, there shall be spread a thin coating of hot coal tar or distilled tar of the grade used for road purposes, and before this is dry there shall be spread over the entire tarred surface a uniform layer of sharp sand. The transverse joints shall be filled with asphalt or pitch, care being taken to fill the joint flush with the surface of the pavement.

Moved by Ald. Schmid, that engineer's estimate and specifications be accepted.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

#### **Pavement Boundary and Order of Assessment.**

By Ald. Prochnow: Resolved, that the pavement on W. Huron st., within the city of Ann Arbor, heretofore ordered, in the opinion of the Common Council is and is hereby deemed and declared to be a necessary public improvement.

Resolved, further, that all lands, tenements and premises hereinafter mentioned are deemed and declared to be benefited by the construction and completion of the pavement heretofore ordered, and it is hereby ordered and determined that all the costs of the said public improvement, street intersections and twenty per cent of the balance of the cost of said public improvement excepted, shall be and is hereby ordered to be levied on and assessed against the lands,

tenements and premises situated in the special district assessment hereinafter designated, and the said special assessment district is hereby fixed as follows, to-wit:

All those certain pieces and parcels of lands situated in the City of Ann Arbor, County of Washtenaw, State of Michigan, as follows:

In the original plat of Ann Arbor: Block 1 N., range 2 E., lots 1, 2, 3, the south 1-2 of lot 4 and the south 32 ft. of lot 8. Block 1 S. range 2 E., lots 1, 2, 3, 4, excepting the south 2 ft. of lot 1.

In Assessor's plat No. 3: Block No. 1. lots 1, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18. Rhodes Subdivision, lot 1. Block 4, lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 21.

In S. P. Jewett's addition to Ann Arbor: Lots 52, 53, 55, 56, and the N. 132 ft. of lot 54. Lots 20, 21, 22, 23. Lots 1, 2, 89, 90. Between 9th St. and Huron Crest subdivision, south of Huron street: Land bounded on the east by 9th st., on the north by Huron st., on the west by Huron Crest subdivision, and on the south by a line parallel to and 132 ft. south of the south line of Huron st.

In Huron Crest subdivision in Ann Arbor: Lots 1, 2, 3, 4, 5, 6. South of Huron st., and west to Huron Crest subdivision: All land in the N. E. 1-4 of section 30, lying within the city limits, and south of the south line of W. Huron st., bounded on the east by Huron Crest subdivision, and on the west by a line perpendicular to Huron st., and passing through the point of intersection of Huron st., Jackson road and Dexter road (about 1216 ft west of the center line of Ninth st.)

North of Huron st. and west of Section 29: All land lying west of the west line of the east 1-2 of the north east 1-4 of sect. 30, town 2 S., range 6 E., within the city limits, north of the north line of W. Huron st., and east of a line perpendicular to W. Huron st., and passing through the point of intersection of Huron st., Jackson road and Dexter road (about 1216 ft. west of the center line of Ninth st.)

Land bounded as follows: Beginning at the intersection of the north line of W. Huron st., and the west line of the east 1-2 of the north east 1-4 of section 30, town 2 S., range 6 east, thence north along the said west line of the east 1-2 of the north east 1-4 of section 30, a distance 444

ft., thence south 60 deg. 30 east 603.18 ft., thence 82 deg. east to a line perpendicular to Huron st., and 611 ft., east of the west line of the east 1-2 of the north east 1-4 of section 30 thence south to a line parallel to and 132 ft., north of the north line of Huron st., thence east parallel to Huron st., 132 ft., thence north 40 ft., thence north 82 deg. east about 160 ft., to the west line of a lane 24 ft., wide running northerly from Huron st., thence southerly along the west line of said lane 210 ft., to the north line of W. Huron st., thence west along the north line of W. Huron st., about 875 ft., to the place of beginning.

Land bounded on the east by the east line of section 30, on the north by the north line of section 30, on the west by the east line of a lane 24 ft. wide which runs northerly from Huron st., and on the south by the north line of W. Huron st., having a frontage of about 445.5 ft. on Huron st.

North of Huron and between Mann's addition to Ann Arbor and Section 30: Land bounded east by said Mann's addition and west by west line of section 29, bounded south by the north line of W. Huron st. and being 190 ft. deep.

In Mann's Addition to Ann Arbor: Lots 1, 2, 3, 4, and 5, excepting the north 49 ft. of lot 1.

North of Huron st. and between Chapin st. and Mann's addition: Land bounded as follows: Beginning at the intersection of the north line of W. Huron st. and the east line of Mann's addition, thence northerly along the said east line of Mann's addition 198 ft., thence easterly parallel to the north line of W. Huron st., 66 ft., thence north 152 ft., thence east along a line parallel to and 350 ft., north of the north line of Huron st. to the present west line of property belonging to the city of Ann Arbor, and known as West Park, thence southerly along the said west line of West Park to a point 198 ft. north of the north line of W. Huron st., being to the south line of West Park, thence east, then north, then east, then south and then east following along the boundary line of said West Park to the west line of Chapin st., thence southerly to the north line of W. Huron st., thence west to the point of beginning. Excepting from the above described lands a parcel bounded as follows: On the east by Chapin st., on the south by a line

parallel to and 138 ft. north of the north line of W. Huron st., on the west by land now owned by Magdalena Rohde, and on the north by aforesaid West Park.

North of Huron st. and between Chapin st. and First st.: Land bounded as follows: Beginning at the intersection of the north line of W. Huron st. and the east line of Chapin st., thence north easterly along the said east line of Chapin st. 104.63 ft., thence east along line parallel to and 100 ft. north of the north line of Huron st. to the west branch of Allen's creek, thence northerly along said west branch of Allen's creek to a point which is 132 ft. north of the north line of Huron st., thence east along a line parallel to and 132 ft. north of the north line of Huron st. to a point 66 ft. west of the west line of First st., thence south 40 ft., thence east 66 ft. to the west line of First st., thence south along the west line of First st., to the north line of W. Huron st., thence west along the north line of W. Huron st. to the place of beginning.

Resolved, further, that and this Common Council hereby requires and orders the sum of \$11,575.67, payable in ten equal annual installments, with four per cent interest or, at the option of the tax payers, in one payment, to be raised by tax and a special assessment on and against the lots, parts of lots, lands, tenements aforesaid and situated in the said special assessment district, and as a tax against the owners thereof. All to be assessed on and against said lands, tenements and premises according to the benefits coming to each parcel thereof from such local public improvement, and the City Assessor is hereby required to levy and assess the said sum of money as aforesaid on and against the lands and tenements aforesaid on and upon the special assessment roll for the paving district aforesaid and on or upon each and every of the regular assessment rolls of the City of Ann Arbor for the year and during which any such special assessment may be payable, until the whole of such special assessment shall be paid in full all to be assessed in the manner and for the purpose aforesaid pursuant to law.

Resolved, further, that the sum of \$4,411.13, is hereby appropriated for the purpose of defraying the cost of such public improvement at street and alley intersections and twenty

per cent of the balance of costs of said public improvement; all of which sum of money in ten equal annual installments, with interest, be and the same is hereby ordered and required to be levied, spread and assessed on and upon each and every of the regular annual assessment rolls of the City of Ann Arbor, and on and against all the taxable property within the said city and during the period in which any part of this appropriation and assessment is or shall be payable.

Resolved, further, that the City Clerk do certify this determination and order of assessment of the City Assessor pursuant to law.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

#### **Pavement Boundary and Order of Assessment.**

By Ald. Prochnow: Resolved, that the pavement on W. Liberty st., within the city of Ann Arbor, heretofore ordered, in the opinion of the Common Council is and is hereby deemed and declared to be a necessary public improvement.

Resolved, further, that all lands, tenements and premises hereinafter mentioned are deemed and declared to be benefited by the construction and completion of the pavement heretofore ordered, and it is hereby ordered and determined that all the costs of the said public improvement, street intersections and twenty per cent of the balance of the cost of said public improvement excepted, shall be and is hereby ordered to be levied on and assessed against the lands, tenements and premises situated in the special district assessment hereinafter designated; and the said special assessment district is hereby fixed as follows, to-wit:

All those certain pieces and parcels of lands situated in the City of Ann Arbor, County of Washtenaw, State of Michigan, as follows:

In the original plat of the village of Ann Arbor: In block 2 S., range 2 E., lot 4 and 5. In block 3 S., range 2 E., lots 1, 2, 10, and the west 1-2 and the north 22 ft. of the east 1-2 of lot 9.

In Assessor's Plat No. 3: In block 2., lots 6, 7, 8, 9, 10, 11, 12, and the S. 110 ft. of lot 4. In Krause Addition, lots 8, 9, 10, 11, and the south 50 ft. of lot 7. In block 3., lots 1, 2,

3, 4, 5, 6, 7, 8, 9, 29, 30, 32, 33, 49, 50, and the south 120 ft. of lot 31. Property bounded on south by Liberty street, east by lot 50 of block 3 of Assessor's plat No. 3, and by west line of said lot 50 extended, and on north and west by S. P. Jewett's Addition to Ann Arbor.

In S. P. Jewett's Addition to Ann Arbor: lots 76 and 77, excepting 31.5 ft. off north end of said lots 76 and 77. Lots 49, 50, 51, the south 10 ft. of lot 47, and lot 48 excepting 60.3 ft. off the north end of said lot 43. Lots 18 and 19.

In Section 30, Town 2 south, range 6 East: Land bounded as follows: Beginning at the intersection of the north line of Liberty st. and the east line of section 30, thence north 132 ft. thence west 66 ft. thence south westerly about 254 ft. to a point 132 ft. north of the center line of Liberty st. thence westerly parallel to W. Liberty st. 66 ft., thence north 44 ft., thence south westerly 76.3 ft. to a point 147 ft. north of the center line of W. Liberty st., thence west 75 ft., thence south 84.5 ft., thence westerly parallel to Liberty st. 174 ft., thence north to a point 287 ft. north of the center line of W. Liberty st., thence westerly about 108.5 ft. to a point 301 ft. north of the center line of W. Liberty st., thence S. to a point 203 ft. north of the center line of W. Liberty st., thence westerly parallel to W. Liberty st., 138.5 ft., thence north to the north line of the S. E. 1-4 of sec. 30, thence west to the city boundary, thence south to the north line of W. Liberty st., thence easterly to the place of beginning. All land lying south of the south line of W. Liberty st. and within the limits of the city of Ann Arbor.

In Section 29, south of W. Liberty st. and west of Seventh st.: Land bounded as follows: Beginning at the point where the west line of sec. 29 intersects the south line of W. Liberty st., thence south along section line 636 ft., thence easterly to the west line of lots 1, 2, and 3 in Thompson, Spoor & Thompson's addition to Ann Arbor at the south line of lot 3, thence northerly to the south line of W. Liberty st., thence westerly along said south line of W. Liberty st. to place of beginning. Lot 1 in Thompson, Spoor & Thompson's Addition in Ann Arbor.

Between Seventh st. and Fifth st. and South of Liberty st. Block 4 S. Range 4 and 5 West: A strip of land

bounded on north by Liberty st., on the west by Seventh st. on the south by a line parallel to and 231 ft. south of the south line of W. Liberty st., and on the west by lots C, B, D, and E in Maynard's 3rd Addition to Ann Arbor. Lots C and B in Maynard's 3rd addition to Ann Arbor.

Between Fifth st. and Fourth st. and South of W. Liberty st. Block 3 S. Range 3 W.: Land bounded as follows: Beginning at the intersection of the south line of W. Liberty st. and the east line of Fifth st., thence south along the east line of Fifth st. to the north line of lots 15 and 16 in block 3 and 4 S., range 3 W., of Wm. S. Maynard's 2nd addition to Ann Arbor, thence east along the said north line of said lots 15 and 16 to a point 87.5 ft. west of the west line of Fourth st., thence north 36 ft., thence east 87.5 ft. to the east line of Fourth st., thence north along the said east line of Fourth st., to the south line of W. Liberty st., thence west along the south line of W. Liberty st., to place of beginning.

In Wm. S. Maynard's First Addition to Ann Arbor: In Block 3 south, Range 2 W., lots 1, 2, 3, 4, 5, 6, 7, 8, excepting the south 66 ft. of lots 1 and 2. In Block 3 south, Range 1 W., lots 1, 2, 3, 4, 5, 6, excepting the south 33 ft. of lot 6. In Block 3 south, Range 1 east, lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 19.

Resolved, further, that and this Common Council hereby requires and orders the sum of \$12,936.78 payable in ten equal annual installments, with four per cent interest or, at the option of the tax payers, in one payment, to be raised by tax and a special assessment on and against the lots, parts of lots, lands, tenements aforesaid and situated in the said special assessment district, and as a tax against the owners thereof. All to be assessed on and against said lands, tenements and premises according to the benefits coming to each parcel thereof from such local public improvement, and the City Assessor is hereby required to levy and assess the said sum of money as aforesaid on and against the lands and tenements aforesaid on and upon the special assessment roll for the paving district aforesaid and on and upon each and every of the regular assessment rolls of the City of Ann Arbor for the year and during which any such special assessment may be payable, until the whole of such special assessment

shall be paid in full, all to be assessed in the manner and for the purpose aforesaid pursuant to law.

Resolved, further, that the sum of \$5,458.52 is hereby appropriated for the purpose of defraying the cost of such public improvement at street and alley intersections and twenty per cent of the balance of costs of said public improvement; all of which sum of money in ten equal annual installments, with interest, be and the same is hereby ordered and required to be levied, spread and assessed on and upon each and every of the regular annual assessment rolls of the City of Ann Arbor, and on and against all the taxable property within the said city in and during the period in which any part of this appropriation and assessment is or shall be payable.

Resolved, further, that the City Clerk do certify this determination and order of assessments to the City Assessor pursuant to law.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

#### Street Lighting Committee.

Ann Arbor, Mich., April 10, 1913.

To the Common Council: Gentlemen—Your Lighting committee have had the petitions relative to following street lights under consideration, and respectfully recommend: That a tungsten light be placed at corner of Geddes av. and Walnut st. and an arc light be placed at corner of Fifth av. and Detroit st., also that tungsten light at corner Fifth av. and Detroit st. be placed in front of residence of Wm. J. Miller, 511 N. Fifth av.

Respectfully submitted, E. Schmid, J. D. Ramsay, Lighting Committee. Ald. Schmid moved the adoption of the report.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

#### Special Water Committee Report.

To the Special Water Committee of the Common Council, Ald. Geo. Lutz, chairman, Ann Arbor, Mich.: Sirs—I submit herewith a report of work done in testing wells at Steere farm since Jan. 6th, 1913, together with results obtained and further data concerning quality of supply, and quantity needed.

Very truly yours, Manley Osgood, City Engineer.

## RESUME OF PREVIOUS WORK.

To briefly summarize the contents of reports of Nov. 4, 1912, and Jan. 6, 1913, the following may be said: Concrete basins were built around each of the five wells at the Steere farm, to turn the water into wooden flumes, with measuring weirs and gauges. These five wells were allowed to flow together for a period ending Nov. 13th, 1912, and measurements were made of the rate of flow. These showed an average rate of 742,900 gal. per 24 hrs. from the five wells combined. The rate of flow did not decrease, but was greater during the latter part of the period than during the first days.

Two new wells, No. 6 and No. 7 were drilled east of the State street road, and a good flow of water was obtained in each, but the rate of flow had not been measured up to the date of my last report. These two wells were leaking around the outside of the eight inch casing.

Specifications were prepared and bids received for pumping the five wells west of the State street road. The bids were rejected, and your Chairman, together with Mr. Sherk and the City Engineer, were appointed to proceed with a pumping test of four of these five wells, using pumps which might be rented or borrowed locally.

## WORK SINCE JAN. 6, 1913.

To stop the flow of water from around the outside of the casing of No. 7, the eight inch casing was pulled up and a 12 inch casing put into the same hole. We expected that the 12 inch casing would fit into this hole tightly enough to prevent the leaking around the outside, but by the time the eight inch pipe was removed the hole through the bed of clay was so large that the 12 inch pipe dropped into it without driving and left considerable space. The 12 inch casing was forced on through the bed of water gravel to rest on the hardpan below. In driving the pipe through this water gravel a stone was encountered of sufficient size to throw and hold the casing out of plumb. A six inch centrifugal pump, borrowed from the Ann Arbor Water company, was placed to pump from inside this 12 inch casing and into a flume which emptied over a measuring weir into the county ditch. The pump was belted to the engine of the well drilling machine. By pumping more water than the free flow of the well, the head of water in the well was lowered to below the surface of the ground.

The casing was forced back to nearly plumb, and concrete was then mixed and placed in the hole around the outside of the casing, it requiring three loads of gravel and 21 sacks of cement to fill up the space. Pumping was continued for a period of about forty hours, to give the concrete a chance to set, and at the end of that time the leakage was found to be stopped. To maintain the water at an elevation about five feet below the ground surface, a pumping rate of about 1,000,000 gallons per 24 hours was necessary. Before discontinuing pumping, a rate of 1,500,000 gallons per 24 hours was maintained for a short time, lowering the head in the well only eight feet below the ground surface. On discontinuing the pumping, the water rose very rapidly in the well and was flowing over the top of the casing in a very few minutes.

At No. 6, the eight inch casing was not disturbed, but the centrifugal pump was connected as at No. 7, and the leaking around the casing stopped in the same way as at No. 7. Here, the rate of pumping maintained to hold the head in the well down below the ground surface was about 672,000 gal. per 24 hrs. At this well about two loads of gravel and ten sacks of cement were used.

Arrangements were made for pumping four of the five eight inch wells west of State street road. A second belt driven centrifugal pump was borrowed from the Eastern Michigan Edison Co., and two centrifugal pumps with direct connected steam engines were rented. Two traction engines were used, each engine running one of the belt driven pumps and furnishing steam for one of the steam driven pumps. The pumps were located at wells No. 1, 2, 4 and 5, leaving well No. 3 without a pump, and each pump was arranged to discharge into a flume so that the quantity pumped by each might be measured.

Pumping was commenced Feb. 19, 1913, but the pump at well No. 4 had not been running long when a sand plug was formed in the casing, which prevented further pumping. This well had the lowest rate of free flow of any of the eight inch wells in the locality, and was known to be in a pocket of finer sand than any one of the others. The casing extended about six feet into this fine gravel, and was left with an open end so that when the head of water was lowered in the well, the upward pres-



sure of the water underneath forced the gravel up into the pipe forming a plug through which the water filtered slowly. This plug was cleaned out and the well flowed free as strongly as before pumping commenced, but when pumping was again started, a second plug was formed in the pipe. The pump was then moved from No. 4 to No. 3 and pumping No. 3 was started on Mar. 5, in connection with No. 1, 2 and 5, at which wells the pumps had been kept running continuously since starting. Pumping No. 5 was discontinued from 2:00 p. m., Mar. 5th, until 6 p. m. Mar. 6, for an extension of the steam line to the traction engine which had been moved from No. 4 to No. 3. On March 15th an accident to the steam engine at No. 5 caused that pump to be again shut down until March 20th. During the thirty day period from Feb. 19th to Mar. 21st, these pumps were run twenty-four hours each day, except as noted above, and for time to oil engines, clean flues, etc.

**RESULTS:** Records were kept of the rate of pumping from each well, and of the distance below the top of the casing at which the water stood in each well and from these records, which are on file in my office, the following tables and facts have been drawn:

**TABLES OF DAILY DISCHARGE:**

During time of pumping four wells simultaneously: Pumping 1, 2, 3, 5.

	Average	Maximum	Minimum
No. 1. . . .	309,180	353,500	215,100
No. 2. . . .	600,280	643,200	531,800
No. 3. . . .	597,720	695,000	263,400
No. 4. . . .	5,600	5,600	5,600
No. 5. . . .	492,930	574,100	190,100
No. 6. . . .	137,145	140,400	126,000
No. 7. . . .	196,300	206,100	188,400

Total . 2,339,155

Figured only from rate of flow after cutting 18 in. off casing at well No. 7.

During time of pumping three wells simultaneously: Pumping Nos. 1, 2, 5.

	Average	Maximum	Minimum
No. 1. . . .	281,230	331,750	160,600
No. 2. . . .	580,000	640,000	400,150
No. 3. . . .	95,400	109,050	89,300
No. 4. . . .	26,450	101,050	5,600
No. 5. . . .	505,050	507,600	404,600
No. 6. . . .	151,450	158,400	140,400
No. 7. . . .	73,900	120,000	00

Total . 1,713,480

Before cutting 18 in. off casing at well No. 7.

Pumping Nos. 1, 2, 3.

	Average	Maximum	Minimum
No. 1. . . .	308,000	397,000	272,500
No. 2. . . .	590,000	631,000	561,000
No. 3. . . .	625,000	632,300	609,100
No. 4. . . .	5,600	5,600	5,600
No. 5. . . .	121,000	261,200	64,800
No. 6. . . .	147,000	152,400	134,400
No. 7. . . .	234,000	248,400	209,000

Total . 2,030,600

After cutting 18 in. off casing at No. 7.

"The effect of pumping these wells on the wells pumped and on other wells in the locality was quite varied. In the wells pumped, the elevation of water in the well fluctuated inversely with the discharge; that is, for a large discharge the water level was lower in the casing than for a smaller discharge. But for a given discharge, the elevation of water in the well remained practically constant throughout the pumping.

"During the time of pumping four wells, the fifth well, which is located midway between two which were being pumped, continued to flow free. This held true even during the pumping of Nos. 1, 2, 3 and 5 when No. 4 flowed free though the bottom eight feet of casing was filled with gravel. When pumping only three of the five wells, the two remaining wells continued to flow free. These facts are shown in the above tables.

"At well No. 6, the rate of flow decreased slightly when pumping commenced and then remained practically constant throughout the pumping.

At No. 7, when pumping commenced, the well casing extended about three feet above the level of the surrounding ground surface. The rate of flow diminished until the water would not flow over the top of this casing but stood at an elevation never lower than one half inch below the top of the casing. We have found since capping this well that the water is leaking away underneath the concrete and between the muck and clay strata, and coming to the surface at a distance about 25 ft. from the well. This leak may have started during the time of pumping, and may have been responsible for the gradual diminishing of flow. On March 12th, eighteen inches was cut off the casing at Well No. 7, which made the top of the casing about the same height above the surrounding ground elevation as at all of the eight-inch wells. The rate of flow after cutting down was very strong as shown by above tables.

"Before commencing pumping, the rate of flow of two wells, each three inches in diameter, on an adjoining farm was measured accurately. Pumping was discontinued on Friday and on the following Tuesday the rate of flow of these same two wells was again measured and found to be greater than before pumping commenced.

During time from Friday until Tuesday, after pumping was stopped, the eight inch wells were capped as follows: No. 3, 4, 5 and 6 on Saturday, and No. 1 and 2 on Monday. This was done to observe the rise of static head in these wells, but on Tuesday, before measuring the two three-inch wells referred to above, all these eight-inch wells were again uncapped and allowed to flow free during the time readings were taken, in order to make conditions the same as prevailed when these wells were measured before pumping commenced. During the pumping, however, the rate of flow of these two three-inch wells decreased considerably until a rate of flow was reached which remained practically constant throughout the remainder of the pumping.

"The effect on the smaller wells in this locality was quite varied. All the wells of two inch diameter or smaller, located south of the line of wells which were pumped and east of a north and south line through the intersection of the line of these wells and the center of State street road (State street road is running east of south at this point) stopped flowing and the water stood at an elevation a little below the top of the casings. All the wells north of the line of wells which were pumped as well as those south of this same line and west of the above mentioned north and south line continued to flow. No explanation is offered for this condition of affairs, but the wells which stopped flowing seemed to be more affected by the free flow of wells No. 6 and No. 7 than by the pumping of the wells west of State street road. While we were pumping wells Nos. 1, 2 and 3 and the water level in the casing of No. 2 was about 20 feet below the top of the casing, a small two inch well not more than 50 feet south of well No. 2 continued to flow, although not as strongly as when the pumps were not running. The free flow of this same two inch well continued throughout the entire 30 days pumping of the nearby large wells. The well in J. B. Steere's celery

house about 100 feet northeast of well No. 1 was considerably affected by pumping No. 1, and flowed much stronger just as soon as the pump at No. 1 shut down for any cause. But even during the time No. 1 was being pumped the head of water in this well never was so that a flow could not be obtained at the floor level in the celery house. The flow of the well near Mr. Steere's barn, about 150 feet east of well No. 1, and of a well about 150 feet northwest of well No. 5 continued throughout the pumping."

COSTS. The cost of work done under the direction of your Special Water committee to date has been as follows:

Basins, flumes, gauges, etc...	\$ 388.11
Ditches .....	68.95
Records and reports .....	310.87
Specifications and advertising for pumping wells...	74.01
Wells No. 6 and 7 .....	292.99
Stopping leakage at No. 6 and 7 .....	558.97
Setting up and housing pumps, machinery, etc...	273.40
Pumping wells .....	1,867.42
Sand pumping No. 4 and moving from No. 4 to No. 3 .....	90.36
Measuring Osborn's wells.	34.85
Tearing down and returning machinery .....	96.98
Water consumption statistics	5.83

Total .....

\$4,062.74  
This includes all of my own time and that of my assistants properly chargeable to this account, as well as all other expenses known to date. As in former reports, items of tools are included which are still on hand and in good condition.

#### FURTHER DATA CONCERNING SUPPLY AT STEERE FARM.

"Some statements have been made that this supply of water was merely a local supply and that what was pumped out went back down to be pumped up again. The absurdity of this is apparent when one knows that between the muck and the water bearing gravel is a stratum of very tough and impervious clay. Also, during the entire time that these wells were being pumped, the ground was frozen so that it was impossible for the water in the stratum of water gravel to be replenished from melting snow or by any water which fell on the ground surface. The constant temperature of the water at all seasons of the year would also indicate that the source of supply is not close

at hand. Measurements of temperature were made by Frank Leverett in 1905 or 1906 in June, July, August and November and similar measurements were made during the recent pumping test, using the same thermometer used by Mr. Leverett and no variation of even a degree in the temperature was found. The temperature is practically constant at 49 3-4 degrees Fahrenheit. From these observations I would certainly expect equally good results from a pumping test similar to the one just completed but made during the driest season of the year.

Several analyses of the water from these wells have been made since the last report, particular emphasis being laid on the amount of iron contained. The quantity of iron varied in the several wells, inversely with the flow or pumping which indicates that at least a part of the iron is dissolved from the well casing as the water rises through it. The iron in no case exceeded 9-10 of a part in 1,000,000 and no expensive apparatus or plant for the removal of iron would be necessary were a supply to be drawn from this locality. The water has been analyzed many times and no question of its fitness for a public water supply has ever been raised except in regard to the quantity of contained iron.

The water gravel lying underneath the Steere farm is a very coarse gravel with some quite large stones and offers comparatively little resistance to the flow of water. The extent and depth of this stratum is not accurately known, but the following has been determined regarding it:

The extent is at least 360 acres, shown by koving wells located at different points of such an area, all of which seem free from the finer sand which so retards the flow of water as to make a well useless for supplying a large quantity of water. The depth of this stratum at well No. 6 was 12 feet and at well No. 7 was eight feet. Wells nos. 7, 2, 3, 4 and 5 each extend about six feet into the stratum without reaching the bottom of it. In a test well located about 200 feet north of well No. 3 this stratum was found to be 22 feet thick and below the bottom of this stratum, after passing through one foot of hardpan and 16 feet of sand, a second stratum of the coarse water gravel was found which was ten feet thick and from which the water flowed over the top of the casing at even a greater rate than from the

higher stratum. From this date it is evident that there is underneath the Steere farm and the neighborhood a splendid collecting basin in which water will flow rapidly to the well through which it is being pumped to the surface. Wells located in this course gravel would successfully furnish a public water supply where wells tapping the same underground stream but located in a very fine sand would fail to do so.

Elevations of some of the points at the Steere farm have been determined, by levels carried out there from the city, and are given below together with the elevations of some points in the city:

Elevation at well No. 1	821.5
Elevation at well No. 5	823.3
Elevation at well No. 6	819.9
Elevation of grade crossing at State St. and Ann Arbor R. R.	837.9
Elevation of ground at N. E. corner of Ferry Field	827.0
Elevation of cover of manhole in Main sewer at Washington St. (low point in Washington)	803.0
Elevation of University campus	880.0
Elevation of Main and Huron	837.0

"Statistics of water consumption in Michigan, Indiana and Ohio cities of population from 17,000 to 25,000 have been gathered and tabulated. Great variation is shown in consumption in cities of approximately the same size. For the city of Ann Arbor, with no large manufacturing consumers, a supply furnished to each consumer through a meter would not exceed 100 gallons per capita daily. This would make the present rate of consumption about 2,000,000 gallons daily. A more carefully prepared estimate of the supply necessary for the city of Ann Arbor for some years to come together with estimates of cost of pumping plant, distribution system, etc., will be furnished in the near future."

ACKNOWLEDGEMENTS. To Mr. J. B. Steere for his help and interest shown in many ways and for considerable information; to Prof. W. C. Hoad for personal work and much information and advice; and to Prof. Frank Leverett for information and the use of instruments, the thanks of the committee are due.

Moved by Ald. Lutz, that the report be published with the minutes.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt,\* Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

Moved by Ald. Manwaring, that a vote of thanks be extended to the members of the special water committee as a mark of appreciation for the faithful work performed.

Adopted by unanimous vote of those present.

**Officers' Reports.**

**TREASURER'S REPORT.**

**GENERAL FUNDS—Treasurer's Report for Month Ending March 31st:**

<b>Money Received—</b>	
<b>Contingent Fund—</b>	
Excess of summer rolls .....	\$460.41
Excess of winter rolls .....	413.35
Penalty on taxes .....	1,043.25
City scales .....	12.30
Peddlers' licenses .....	15.00
Auto licenses .....	1.00
Milk licenses .....	1.00
Fees on taxes .....	93.62
<b>Total .....</b>	<b>\$2,039.93</b>
<b>Police Fund—</b>	
Officers' fees .....	\$ 4.25
Justice Doty's fines .....	15.00
<b>Total .....</b>	<b>\$19.25</b>
<b>Cemetery Fund—</b>	
Sale of lots .....	\$15.00
Care of lots .....	1.00
Single burial .....	1.00
Burial permits .....	7.00
<b>Total .....</b>	<b>\$24.00</b>
<b>Dog Licence Fund—</b>	
Dog licenses .....	\$2.50
<b>State Tax Fund—</b>	
Taxes collected .....	\$ 740.69
<b>County Tax Fund—</b>	
Taxes collected .....	\$305.66
Rejected Co. and State taxes .....	80.83
<b>Total .....</b>	<b>\$386.49</b>
<b>School Tax Fund—</b>	
Taxes collected .....	\$1,718.55
Uncollected city tax fund.....	403.74
Delinq. tax fund .....	1,952.29
<b>Total .....</b>	<b>\$4,074.58</b>
<b>Uncollected City Tax Fund—</b>	
Delinq. tax fund .....	\$1,532.44
Delinq. taxes collected .....	82.46
<b>Total .....</b>	<b>\$1,614.90</b>
<b>Sprinkling Dist. No. 11—</b>	
Taxes collected .....	\$ 7.83
Delinq. tax fund .....	53.18
<b>Total .....</b>	<b>\$61.01</b>
<b>Sprinkling Dist. No. 13—</b>	
Taxes collected .....	\$1.85
<b>Total .....</b>	<b>\$8,965.20</b>
On hand March 1st .....	\$95,738.31
<b>Total .....</b>	<b>\$104,703.51</b>
Warrants paid .....	89,550.99
<b>On hand April 1st .....</b>	<b>\$15,152.52</b>
<b>Warrants Paid—</b>	
Contingent fund .....	\$1,825.49
City cemetery fund .....	40.00
Fire department fund .....	1,514.55

Poor fund .....	261.70
Police fund .....	591.67
Street light fund .....	1,264.05
Bridge, culvert and crosswalk fund .....	2,714.31
State tax fund .....	8,753.66
County tax fund .....	4,639.49
School tax fund .....	62,006.58
Uncollected city tax fund.....	2,320.75
Delinquent tax fund.....	3,537.91
Rejected tax fund .....	80.83

**Total.....** **\$89,550.99**

**Condition of General Funds on the First Day of April—**

<b>On Hand—</b>	
Contingent fund .....	\$1,136.28
City cemetery fund .....	523.87
Dog license fund .....	448.06
State dog tax fund .....	100.00
Poor fund .....	259.24
Police fund .....	2,297.86
Street fund .....	.03
Park fund .....	241.50
Street light fund .....	793.69
Sidewalk fund .....	6.61
Rejected tax fund .....	125.50
Sprinkling district No. 11.....	83.00
Detention hospital .....	25,000.00

**Total.....** **\$31,016.24**

**Overdrawn—**

Fire department fund .....	\$2,189.71
Water fund .....	908.03
Sidewalk building fund .....	197.73
Bridge, cul. and crosswalk fund..	4,364.35
Uncollected city tax fund.....	1,343.68
Delinquent tax fund .....	6,860.22

**Total .....** **\$15,863.72**  
**31,016.24**

**\$15,152.52**

**Warrants Outstanding—**

Contingent fund .....	\$28.20
Poor fund .....	20.00
Park fund .....	.85
Bridge, cul. & crosswalk fund.....	6.77

**PAVING FUNDS—Treasurer's Report for Month Ending March 31st.**

<b>Money Received—</b>	
Tax acct. pav. No. 5, taxes collected	\$ 89.63
Tax acct. pav. No. 6, taxes collected.	8.19
Tax acct. pav. No. 10, taxes collected	289.14
Tax acct. pav. No. 15, taxes collected	51.09
Tax acct. pav. No. 18, taxes collected	135.89
Tax acct. pav. No. 19, taxes collected	18.16
Tax acct. pav. No 21, taxes collected	31.06
Tax acct. pav. No. 23, taxes collected	9.73
Tax acct. pav. No. 26, taxes collected	171.25
Tax acct. pav. No. 27, taxes collected	2,507.68

**Total .....** **\$ 3,311.85**  
**On hand March 1st .....** **\$16,431.49**

**On hand April 1st .....** **\$19,743.34**  
**Condition of Paving Funds on the First Day of April.**

**On Hand—**

Tax acct. pavement No. 5.....	\$1,079.01
Tax acct. pavement No. 6.....	76.20
Tax acct. pavement No. 7.....	123.85
Tax acct. pavement No. 8.....	581.57
Tax acct. pavement No. 10.....	616.21
Tax acct. pavement No. 11.....	789.70

Tax acct. pavement No. 13.....	519.18
Tax acct. pavement No. 14.....	1,256.00
Tax acct. pavement No. 15.....	1,374.44
Tax acct. pavement No. 16.....	1,328.96
Tax acct. pavement No. 17.....	634.12
Tax acct. pavement No. 18.....	3,048.25
Tax acct. pavement No. 19.....	1,795.75
Tax acct. pavement No. 21.....	2,442.79
Tax acct. pavement No. 22.....	153.83
Tax acct. pavement No. 23.....	590.71
Tax acct. pavement No. 24.....	221.74
Tax acct. pavement No. 25.....	269.56
Tax acct. pavement No. 26.....	171.25
Tax acct. pavement No. 27.....	2,511.02
Labor acct. pavement No. 20.....	705.13

Total .....	\$20,289.27
Overdrawn—	
Tax acct. pavement No. 9.....	\$ 369.54
Tax acct. pavement No. 12.....	92.48
Tax acct. pavement No. 20.....	83.91
Total .....	\$ 545.93
	20,289.27
	\$19,743.34

SEWER FUNDS—Treasurer's Report for  
Month Ending March 31st—

## Money Received—

Tax acct. sewer 34, taxes collected	\$76.13
Tax acct. sewer 36, taxes collected..	9.89
Tax acct. sewer 42, taxes collected..	38.11
Tax acct. sewer 43, taxes collected..	9.09
Tax acct. sewer 47, taxes collected..	10.40
Tax acct. sewer 48, taxes collected..	75.01
Tax acct. sewer 49, taxes collected..	49.26
Tax acct. sewer 50, taxes collected	322.89

Total .....	\$ 590.78
Overdraft March 1st .....	\$4,687.33
Overdraft April 1st .....	\$4,096.55

Condition of Sewer Funds on the First  
Day of April.

## On Hand—

Tax acct. lateral sewer No. 27.....	\$ 13.06
Tax acct. lateral sewer No. 35.....	212.63
Tax acct. lateral sewer No. 37.....	40.99
Tax acct. lateral sewer No. 38.....	119.67
Tax acct. lateral sewer No. 41.....	568.45
Tax acct. lateral sewer No. 42.....	203.40
Tax acct. lateral sewer No. 43.....	246.07
Tax acct. lateral sewer No. 44.....	145.90
Tax acct. lateral sewer No. 45.....	207.41
Tax acct. lateral sewer No. 46.....	212.62
Tax acct. lateral sewer No. 47.....	204.05
Tax acct. lateral sewer No. 48.....	75.01
Tax acct. lateral sewer No. 49.....	49.26
Tax acct. lateral sewer No. 50.....	325.14
Labor acct. lateral sewer No. 49 ..	57.11

Total .....	\$2,680.80
Overdrawn—	
Tax acct. lateral sewer No. 29.....	\$ 11.25
Tax acct. lateral sewer No. 30....	75.22
Tax acct. lateral sewer No. 31.....	41.30
Tax acct. lateral sewer No. 32.....	1,569.34
Tax acct. lateral sewer No. 33.....	88.25
Tax acct. lateral sewer No. 34.....	2,812.97
Tax acct. lateral sewer No. 39.....	30.40
Tax acct. lateral sewer No. 40.....	124.22
Labor acct. lateral sewer No. 42..	170.03
Labor acct. lateral sewer No. 43..	161.63
Labor acct. lateral sewer No. 44..	204.26
Labor acct. lateral sewer No. 45..	247.32

Labor acct. lateral sewer No. 46..	538.53
Labor acct. lateral sewer No. 47..	532.71
Labor acct. lateral sewer No. 48..	150.81
Labor acct. lateral sewer No. 50..	14.12
Total .....	\$6,777.35
	2,680.80
	\$4,096.55

## Recapitulation—

City funds on hand .....	\$15,152.52
Paving district funds on hand....	19,743.34
Total .....	\$34,895.86
Sewer district funds overdrawn....	4,096.55

Bal. on hand .....	\$30,799.31
Bank certificate .....	\$30,719.21
Cash on hand .....	80.10

Total .....

	\$30,799.31
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State Savings Bank, Ann Arbor, Mich. Apr. 10th, 1913.

To whom this may concern: This is to certify that there was on deposit in this bank at the close of business on March 31st, 1913, the sum of \$30,719.21 to the credit of E. G. Mann, City Treasurer.

Respectfully, C. J. WALZ, Cashier.

## ANNUAL REPORT OF FIRE DEPARTMENT.

To the Honorable Board of Fire Commissioners: Gentlemen—I herewith submit the 24th annual report of fire department, April 1st, 1912 to March 31, 1913.

Station No. 1—One steam fire engine complete, with heater, tools etc., drawn by two horses. Hose Wagon No. 1, with 1,000 feet 2 1-2-inch hose, 2 3-gal. fire extinguishers, fully equipped with all tools, pipes, wrenches, etc., two horses. Aerial truck, 65 feet. ext. ladder, 40 ft. ext., 30 ft., 24 ft., 20 ft., 16 ft., 12 ft. and roof ladder, 2 3-gal. fire ext., fully equipped with all necessary tools, 3 horses. Chief's wagon, used for all chimney and grass fires, inspecting hydrants, buildings, etc. Exercise and Supply wagon, carrying coal, rope, chains, geluge set, etc. Reserve hose wagon, 1,000 ft. 2 1-2-inch hose all necessary tools, pipes, etc. Hook and ladder truck, 60 ft. ext., 40 ft. ext., 28 ft., 20 ft., 16 ft., 14 ft. and roof ladder, 2 6-gal. fire ext., tools, etc. Hose in reserve—1500 ft. in very good condition, about 300 ft. that can be turned over to board of public works, 100 ft. of 3-inch hose (good.) Horses—We have 9 that are in good condition; one is old and should be sold. During the year one died and one purchased. Harness—We have three double set, one three-horse hitch, one single and one extra. Horse barns are furnished complete with blankets, whips, sponges, forks, shovels, brushes, etc. Supplies on hand—4 tons hay, 300 bu. oats, 30 bales straw, 50 lbs. bran, 50 lbs. oil meal, 24 brooms, 2 bits, 7 sponges, 4 chamois, 50 lbs. soda, 38 bot. acid, 5 gal. disinfectant, 15 gal. oil, 2 1-2 gal. lub. oil, 1 pt. polish, 3 spanners, 435 N. S. calks, 1 dozen rubber gaskets, 1 case matches, 3 Gold Dust, 3 Dutch Cleaner, 85 Ivory Soap, 20 far soap, 90 toilet paper, 24 roller towels, 37 hand-towels, 8 bath towels, 63 sheets, 45 pillow cases, 16 blankets, spreads, comfts., etc.

Station No. 2.—One combination chemi-

cal and hose wagon, 1,000 ft. 2 1-2-inch hose, 1 50-gal. chem. tank, 2 3-gal. fire ext., 200 feet. 3-4-inch chem. hose, 12 ft. roof and 24-ft. ext. ladder, fully equipped, tools, pipes, etc. Extra hose, 1,000 ft. 2 1-2-inch hose, in fair condition, 1 exercise wagon, 1 sleigh.

Supplies on Hand—1 ton hay, 25 bu. oats, 8 bales straw, 50 lbs. bran, 2 gal. acid, 25 lbs. soda, 1-2 doz. gaskets, 50 ft. garden hose 50 ft. chem. hose, old, 75 boxes matches, 45 toilet paper, 2 Gold Dust, 1 Dutch Cleanser, 60 tar soap, 8 Ivory soap, 23 sheets, 19 pillow slips, 20 roller towels, 18 hand towels.

Hydrants—The Ann Arbor Water Co., reported 5 new hyd. for 1912, making 260 in service by the city, and 32 new high pressure hydrants, connected with two large pumps at U. of M., which gives the city the use of 292 hydrants. I understand they are to continue the high pressure system to Observatory and U. of M. hospital, in a very short time.

Alarms—Total number of fire alarms, 82. Caused by—Def. chimney 12, rubbish in alley 4, rubbish in basements 4, electric wires 5, automobile 2, burning brush 1, R. R. ties 1, lightning 2, telephone on trolley wire 1, unknown 2, cigar stub in closet 1, cigar stub in awning 2, gasoline stove 1, gasoline lamp 1, hay stack 1, gasoline in garage 1, garbage house 1, tar kettle 2, sparks from chimney on roof 5, spon. com. 1, burning paper in yard 2, dropped lamp 1, gas stove 1, smoke house 2, fireplace 2, children and matches 2, children and candle 1, dust in register 2, false 1, retort 1, hole in stove pipe 1, hot cinders wood 2, furnace pipe 2, incendiary 2, overheated furnace 1, overheated stove 1, dynamo 1, steam from boiler 1, acids exploded 1, electric iron 1, spark from cog wheel 1, calcium carbide 1. Number of miles traveled, 65 1-2. Number of feet of hose laid, 10,650. Number of feet of ladders used, 661.

Number of gallons of chemicals used, 380.

Insurance and loss on buildings and contents where fires occurred: Ins. on buildings, \$151,000 ins. on contents, \$22,240; loss on buildings, \$8,245.26; loss on contents, \$4,656.08.

Regular fire alarms, 71. Still alarm by telephone, 7. Alarms run in, 4.

Amount expended for year—

Acid .....	\$12.12
Bran .....	64.05
Straw .....	127.29
Hay .....	617.94
Oats .....	420.38
Coal .....	420.79
Supplies for sleeping quarters.....	51.47
Brooms .....	8.00
Drugs .....	16.85
Chief's expenses .....	69.75
Electric light .....	62.22
Gas light and heater .....	120.37
Disinfectants .....	12.50
Harness repairs .....	37.95
Horeshoeing .....	154.70
Hardware .....	70.66
Incidentals .....	94.55
Laundry .....	58.02
Lumber .....	39.90
Matches .....	3.40
Kerosene oil .....	21.28

Oil meal .....	10.80
Plumbing .....	11.50
Toilet paper .....	7.00
Repairs on wagons .....	74.25
Stoves .....	10.00
Soap .....	16.88
Vet. surgeon .....	24.00
Mattresses .....	18.50
Sweeping compound .....	2.26
Horses bought .....	250.00
Towels .....	8.75
Fire and Water Journal .....	3.00
Chem. hose .....	2.25
Glass .....	1.87

Total .....\$2,925.25

Pay Roll—

April .....	\$1,261.60
May .....	1,263.98
June .....	1,265.43
July .....	1,266.60
August .....	1,266.60
September .....	1,372.32
October .....	1,372.32
November .....	1,372.32
December .....	1,372.32
January .....	1,377.32
February .....	1,382.32
March .....	1,382.32

Total expense .....\$18,880.70

Members of Department—Station No. 1: Chas. Andrews, chief; Eugene Williams, first asst.; Henry McLaren, captain and driver; Ralph Edwards, engineer; Jake Gwinner, ladderman; Art Clark, pipeman; Harley Wise, asst. engineer; Geo. Isbel, driver truck; John Behr, driver engine; James Smith, ladderman; Frank Markey, pipeman; Thomas Shamp, ladderman; Clyde Carpenter, pipeman; Chas. Carroll, watchman.

No. 2.—Geo. Hoelzle, 2nd asst.; Fred Jolly, captain; Max Wettlinger, pipeman; Mat Heiminger, driver; Martin Noll, pipeman; Frank Kapp, watchman.

RECOMMENDATIONS—I would recommend that you give B. of W. 300 ft. of old hose and purchase 500 ft. of new 2 1-2-inch cotton rubber-lined hose, the same as we have always used. We need a new horse, as one is old and hardly safe for hose wagon, or buy one piece of motor apparatus, and have two horses for sale. I would like to see whole department changed from horses to motors. I have list of 365 cities, that are now using motor apparatus, showing number each city has, the kind of machine, cost per year, etc. Will give list of a few:

Battle Creek—Comb. chemical and hose wagon; in service 18 mos., miles run, 447; gas and repairs, \$77.43.

Bay City—Comb. chemical and hose wagon; in service, 14 mos.; gas and repairs, \$62.75.

Flint—Comb. chemical and hose wagon, in service, 25 mos.; miles run, 1,116; gas wagon; in service, 16 mos.; miles run, 447; and repairs, \$269.89; deduct \$162.99 for new tires.

South Bend, Ind.—Comb. chemical and hose wagon; in service, 10 mos; miles run, 827; gas and repair, \$75.75.

Marion, O.—Combined chemical and hose wagon; in service, 9 mos.; miles run, 425; gas and repairs, \$44.35.

Miami, Fla.—Comb. chemical and hose

wagon; in service, 24 mos.; miles run, 809; gas and repairs, \$127.75.

Atlanta, Ga.—Comb. chemical and hose wagon; in service, 25 mos.; miles run, 1,000; gas and repairs, \$119.80.

Rome, Ga.—Comb. chem. and hose wagon; in service, 25 mos.; miles run, 2,160; as and repairs, \$274.40. (Deduct \$175.00 for new tires.)

Rockford, Ill.—Comb. chemical and hose wagon; in service, 12 mos.; miles run, 625; gas and repairs, \$211.40.

Kansas City, Kan.—Comb. chemical and hose wagon; in service, 14 mos.; miles run, 391; gas and repairs, \$84.77.

Lowell, Mass.—Comb. chemical and hose wagon; in service 12 mos; miles run, 945; gas and repairs, \$181.61. (Deduct \$65.00 for new tire.)

Ithaca, N. Y.—Pump engine; in service, 10 mos.; miles run, 311; gas and repairs, \$157.69.

Spokane, Wash.—Comb. chemical and hose wagon; in service, 12 mos.; miles run, 303; gasoline and repairs, \$166.99. (Deduct \$20.00 for new tire.)

Lincoln, Neb.—Comb. chemical and hose wagon; in service, 12 mos.; miles run, 560; gasoline and repairs, \$335.13. (Deduct \$124.99 for new tires.)

At the convention at Denver last year all of the different types of machines were shown, tested and tried out in the hardest possible way.

We should have telegraph fire alarm boxes in business district, school houses and all large buildings. That would give us two separate systems for calling fire department.

I wish to extend my thanks to His Honor, the Mayor, the Council Fire Commissioners, Police department, and all city officials for courtesies shown to members of department and myself.

CHARLES ANDREWS,  
Chief Fire Department.

Reports of treasurer, clerk and marshal for month of March, and the annual report of fire commissioners received and ordered on file; treasurer's report and report of fire commissioners to be printed in minutes.

#### Resolutions.

By Ald. Prochnow: Whereas, the common council has authorized the construction by the board of public works of a pavement, known as the W. Liberty st. pavement, District No. 28, and the common council having caused to be certified to the city assessor the lands, tenements and premises to be assessed for costs of said public improvement, street intersections and twenty per cent. of the balance excepted,

Resolved, and it is hereby ordered that the mayor and city clerk are hereby authorized and required to execute, under their hands and the seal of the city of Ann Arbor, pavement bonds of the city of Ann Arbor, under date of May 1, 1913, for \$18,395.30, that being the cost of such

improvement, payable to bearer in ten equal annual installments from and after the first day of August, 1913, at the office of the city treasurer, with interest at four per cent. per annum, payable annually on the first day of August in each and every year, principal to be payable at the option of the city treasurer pursuant to law.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

By Ald. Prochnow: Whereas, the common council has authorized the construction by the board of public works of a pavement, known as the W. Huron st. pavement, District No. 29, and the common council having caused to be certified to the city assessor the lands, tenements, and premises to be assessed for costs of said public improvement, street intersections and twenty per cent. of the balance excepted,

Resolved, and it is hereby ordered that the mayor and city clerk are hereby authorized and required to execute, under their hands and the seal of the city of Ann Arbor, pavement bonds of the city of Ann Arbor, under date of May 1, 1913, for \$15,986.80, that being the cost of such improvement, payable to bearer in ten equal annual installments from and after the first day of August, 1913, at the office of the city treasurer, with interest at four per cent. per annum, payable annually on the first day of August in each and every year, principal to be payable at the option of the city treasurer pursuant to law.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

By Ald. Ramsay: Resolved, that the matter of laying a water main on Chapin st., be referred to the Water committee. Adopted.

Moved by Ald. Manwaring, that action of the council, referring the communication requesting the right by D. J. & C. Railway running a track on Ashley st., be reconsidered.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

Moved by Ald. Manwaring, that action on request of D. J. & C. Railway Co., relative to said company install-

ing tracks in the public highway, be indefinitely postponed.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

#### Miscellaneous Business.

Ann Arbor, Mich., April 10, 1913.

The Honorable Common Council: Gentlemen—I herewith submit the appointment of Mr. Ernest Rehberg as member of the board of public works from the Fifth ward, to fill the vacancy caused by the resignation of Mr. George Hubbard, and respectfully ask your confirmation of the same. Yours respectfully, William L. Walz, Mayor.

Moved by Ald. Prochnow, that the appointment of Ernest Rehberg as member of the board of public works be confirmed.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

By Ald. Schultz: Resolved, that the council resolve itself into a board of election canvassers and canvass the vote on the election held in this city April 7th, 1913.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

Ann Arbor, Mich., April 10, 1913.

To the board of election canvassers of the city of Ann Arbor, Michigan: Gentlemen—The following is a tabulated list of the votes received by the several candidates for city and ward offices at the election held in this city Monday, April 7th, 1913:

Mayor—

I. L. Sherk—1st ward, 116; 2nd ward, 71; 3rd ward, 109; 4th ward, 83; 5th ward, 107; 6th ward, 146; 7th ward, 203. Total, 835.

R. G. MacKenzie—1st ward, 124; 2nd ward, 208; 3rd ward, 216; 4th ward, 144; 5th ward, 28; 6th ward, 93; 7th ward, 151. Total, 964.

W. S. Mills—1st ward, 115; 2nd ward, 231; 3rd ward, 115; 4th ward, 159; 5th ward, 35; 6th ward, 92; 7th ward, 160. Total, 907.

D. J. Jeannerette—1st ward, 15; 2nd ward, 40; 3rd ward, 29; 4th ward, 15; 5th ward, 5; 6th ward, 18; 7th ward, 25. Total, 147.

MacKenzie's plurality, 57.

President of the Council—

A. E. Jennings—1st ward, 84; 2nd

ward, 53; 3rd ward, 96; 4th ward, 87; 5th ward, 65; 6th ward, 148; 7th ward, 201. Total, 734.

T. H. Trost—1st ward, 114; 2nd ward, 199; 3rd ward, 160; 4th ward, 133; 5th ward, 48; 6th ward, 90; 7th ward, 165. Total, 909.

E. E. Schmid—1st ward, 161; 2nd ward, 263; 3rd ward, 190; 4th ward, 170; 5th ward, 58; 6th ward, 101; 7th ward, 157. Total, 1,100.

J. G. Fischer—1st ward, 12; 2nd ward, 35; 3rd ward, 25; 4th ward, 11; 5th ward, 3; 6th ward, 10; 7th ward, 14. Total, 110.

Schmid's plurality, 191.

City Clerk—

B. F. Savery—1st ward, 58; 2nd ward, 40; 3rd ward, 70; 4th ward, 52; 5th ward, 50; 6th ward, 78; 7th ward, 123. Total, 471.

C. L. Miller—1st ward, 109; 2nd ward, 145; 3rd ward, 168; 4th ward, 112; 5th ward, 40; 6th ward, 87; 7th ward, 138. Total, 799.

Ross Granger—1st ward, 195; 2nd ward, 338; 3rd ward, 211; 4th ward, 230; 5th ward, 82; 6th ward, 176; 7th ward, 262. Total, 1,494.

E. J. Koch—1st ward, 9; 2nd ward, 27; 3rd ward, 20; 4th ward, 1; 5th ward, 2; 6th ward, 8; 7th ward, 14. Total, 81.

Granger's plurality, 695.

City Assessor—

H. D. Armstrong—1st ward, 90; 2nd ward, 44; 3rd ward, 79; 4th ward, 70; 5th ward, 56; 6th ward, 102; 7th ward, 157. Total, 598.

A. J. Kitson—1st ward, 93; 2nd ward, 126; 3rd ward, 144; 4th ward, 116; 5th ward, 41; 6th ward, 133; 7th ward, 161. Total, 814.

E. G. Mann—1st ward, 218; 2nd ward, 356; 3rd ward, 228; 4th ward, 207; 5th ward, 74; 6th ward, 106; 7th ward, 203. Total, 1,392.

S. O. Cooper—1st ward, 10; 2nd ward, 24; 3rd ward, 18; 4th ward, 8; 5th ward, 3; 6th ward, 8; 7th ward, 16. Total, 87.

Mann's plurality, 578.

Justice of Peace—

H. F. Frost—1st ward, 41; 2nd ward, 39; 3rd ward, 52; 4th ward, 45; 5th ward, 37; 6th ward, 60; 7th ward, 97. Total, 371.

J. D. Thomas—1st ward, 212; 2nd ward, 244; 3rd ward, 252; 4th ward, 185; 5th ward, 65; 6th ward, 217; 7th ward, 307. Total, 1,482.

D. M. Forshee—1st ward, 108; 2nd ward, 246; 3rd ward, 149; 4th ward, 165; 5th ward, 69; 6th ward, 65; 7th ward, 122. Total, 924.

E. R. Cornish—1st ward, 10; 2nd ward, 21; 3rd ward, 16; 4th ward, 7;



5th ward, 3; 6th ward, 8; 7th ward, 12. Total, 77.

Thomas' plurality, 558.

Supervisors—

1st ward—Adelbert B. Walker, 66; Ernest M. Wurster, 217. Wurster's majority, 151.

2nd ward—Willard H. Schwab, 71; Herman Armbruster, 142; Christian Schlenker, 314. Schlenkers' plurality, 172.

3rd ward—Wm. Pardon, 125; Herman Zulz, 131; Martin A. Ryan, 196. Ryans plurality, 65.

4th ward—Herman Krapf, 175. No opposition.

5th ward—Thomas Burris, 41; August Dorow, 50; Charles A. Kapp, 82. Kapp's plurality, 32.

6th ward—Henry G. Sellman, 101; Wm. Goodyear, 139; Lewis Townley, 103. Goodyear's plurality, 36.

7th ward—Raymond J. VanDoran, 177; Horatio J. Abbott, 249. Abbott's majority, 72.

1st ward—Ambrose C. Pack, 84; Fred W. Allerton, 108; Albert Fiegel, 171; Thomas Fuller, 13. Fiegel's plurality, 63.

2nd ward—Henry A. Thumm, 47; Edward E. Lucas, 119; Albert Lutz, 356; Robert Reichenecker, 28. Lutz' plurality, 237. Full term.

2nd ward—To fill vacancy: H. J. Hanson, 72; Herman G. Henning, 133; Thomas Hanselmann, 325. Hanselmann's plurality, 192.

3rd ward—Jacob Ganzhorn, 112; Paul Korzueck, 155; Julius Koernke, 186; August Schaeffer, 16. Koernke's plurality, 31.

4th ward—H. Albert Wenk, 106; Wm. P. Flynn, 187; John P. Foster, 12. Flynn's plurality, 81.

5th ward—C. L. Pray, 67; George Hubbard, 84. Hubbard's majority, 17.

6th ward—U. A. Gates, 127; Edwin W. Groves, 131; Walter Scott, 82; Olin Kenyon, 14. Groves' plurality, 4.

7th ward—Charles A. Sink, 220; Myron E. Slater, 176; Stanley Armstrong, 19. Sink's plurality, 44.

Constables—

1st ward—Lewis Ames, 78; Ralph Perrine, 122; Charles M. King, 161. King's plurality, 39.

2nd ward—Louis Meyer, 65; William Phelan, 143; Frederick G. Lutz, 321. Lutz' plurality, 178.

3rd ward—Loren Kruspe, 99; Adolph Schultz, 140; Archie Nowak, 203. Nowak's plurality, 63.

4th ward—John Perrin, 79; Samuel S. Hammial, 143; Thomas Hession, 171. Hession's plurality, 28.

5th ward—Lewis Nowland, 82;

Frederick G. Oalkrug, 61. Nowland's majority, 21.

6th ward—James O'Toole, 113; Charles S. Fox, 112; Joseph Gauntlett, 119. Gauntlett's plurality, 6.

7th ward—William H. Handley, 161; Peter Hines, 214; Henry Otto, Jr., 145. Hines' plurality, 53.

Respectfully submitted, Ross Granger, City Clerk.

By Ald. Schultz: Resolved, that the board of election canvassers accept the report of the city clerk, adjourn, and resume in session of common council.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

By Ald. Schultz: Resolved, that the common council of the city of Ann Arbor, at a regular session of the common council at the council chamber in said city on the 10th day of April, 1913, found the following named persons were duly elected to the city and ward offices named here in:

Mayor, Robert G. MacKenzie; President of the Council, Erwin E. Schmid; City Clerk, Ross Granger; City Assessor, Eugene G. Mann; Justice of the Peace, John D. Thomas.

Supervisors—1st ward, Ernest M. Wurster; 2nd ward, Christian Schlenker; 3rd ward, Martin A. Ryan; 4th ward, Herman Krapf; 5th ward, Charles A. Kapp; 6th ward, William Goodyear; 7th ward, Horatio J. Abbott.

Aldermen—1st ward, Albert Fiegel; 2nd ward, full term, Albert Lutz; 2nd ward, to fill vacancy, Thomas Hanselmann; 3rd ward, Julius Koernke; 4th ward, William P. Flynn; 5th ward, George Hubbard; 6th ward, Edwin W. Groves; 7th ward, Charles A. Sink.

Constables—1st ward, Charles M. King; 2nd ward, Frederick G. Lutz; 3rd ward, Archie Nowak; 4th ward, Thomas Hession; 5th ward, Lewis Nowland; 6th ward, Joseph Gauntlett; 7th ward, Peter Hines.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

By Ald. Lutz: Resolved, that John R. Miner be employed by the city, at a sum not to exceed \$75.00, to audit the books of account, vouchers and monthly reports of the clerk and treasurer, and report to the council Monday, May 5th, 1913.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

By Ald. Manwaring: Resolved, that the State Railroad Commission require the Detroit, Jackson & Chicago Railway Co., to place conductors on all city cars operated in the city of

Ann Arbor, and that the City Clerk serve a copy of this resolution on the State Railroad Commission at once.

Adopted as follows: Yeas, Ald. Schmid, Hochrein, Flynn, Manwaring, Ramsay, Lindenschmitt, Schultz, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 13. Nays, none.

The Council adjourned.

ROSS GRANGER, Clerk.