Council Chamber, Ann Arbor, Mich., Nov. 15, 1915. Regular session.

mann, A. Lutz, Koernke, Heck, Mark- as this means further time, we wish ey, Flynn, Sherk, Manwaring, Mc- you as well as the public to know Gregor, Freeman, G. Lutz, Sink, Pres. the true conditions. Further, if this Wurster, 14. Absent: Ald. Heusel, 1. Minutes of previous meeting approv-

#### Communications.

From Water Works Department-Nov. 15, 1915.

To the Honorable Common Council of the city of Ann Arbor, Mich .: Gentlemen-This department wishes submit, for your consideration the dangerous condition this city will be in, if the coming season is dry. With the present system of piping we are able, outside of sprinkling season, to supply all with water except where there is a one inch or inch and onequarter pipe supplying fifteen or twenty consumers, as for example, East William street, where such conditions exist. There are three blocks of this size of pipe under the most expensive pavement in the city. When the street was paved, no care was taken to relay large pipe as is the practice now. This past summer has been favorable. We have had no trouble to furnish plenty of water for all purposes. Over six hundred new consumers and the following extensions of mains:

384 feet of 16 inch. 4,440 feet of 12 inch. 1,344 feet of 10 inch. 16,219 feet of 6 inch. 2,015 feet of 3-4 to 1 inch

have been added to the plant since the city took possession, which means a much larger supply of water must be furnished.

The small pipe mentioned above, was laid where there was no possibility of any additional consumers.

When the plant was taken over by the city, water consumers in the south and east sections were without water from two to four hours per day, from June to October, and with a dry season, the conditions would be worse. To overcome this situation, this department was considering laying a large main from the number pumping station along North Main street, east, and up Thayer or Ingalls street to the south end of the city. Water to be pumped direct into said main, All water to be filtered with one or more modern filters, such as are used in all large cities.

About this time the Steere farm agitation came up, and we have been Meeting called to order by the pres- waiting developments. The outlook Present: Ald. Fiegel, Hansel- seems to be a lengthy legal fight, and you as well as the public to know next season is a dry one, it means that a great part of the city will be without water at times, as well as no fire protection in certain sections. We have reached a point where, owing to small mains, we are pumping at a loss of between tweny-five and thirty per cent, which is a dangerous point, and we cannot increase the supply of water through the present mains.

We therefore ask that money be allowed for the construction of a large main from Station One to the southeast section of the city as well as money for modern filters.

This department will furnish the estimated cost of the necessary improvements upon request.

Respectfully submitted, Water Works Department of the City of Ann Arbor, by Geo. S. Vandawarker, Manager.

Moved by Ald. G. Lutz that communication be referred to water committee, to report at next meeting. Adopted.

Moved by Ald. Manwaring, that the City Attorney be added to committee on water works department report. Adopted.

#### Petitions.

Ann Arbor, Mich., Nov. 8th, 1915. To the Honorable, the Common Council of the City of Ann Gentlemen-We, the undersigned, being ten or more freeholders of the City of Ann Arbor, respectfully petition your honorable body to close a certain street, known as Edward street, in D. Hiscock's Second addition to the City of Ann Arbor, street running from West street north to a street known Charles street, heretofore closed.

This street has never been used by the city as a street, and is of no val-ue to the City of Ann Arbor as a street, and the purpose of this petition is to have said street closed and have the title to the land vest according to the provisions of the charter of the City of Ann Arbor, and your petitioners will ever pray, etc.

A. R. Gfell, R. F. Zachman, Geo. H. Blum, Adolph Kern, Herman A. Kern, Matilda Fields, Nelson Imus.

|  |   | TICIL  | -NOVEMBER 15, 1915.   | 1  |
|--|---|--|---|--|
| Otto Zemka   | Mrs. Anna Kr  | umrei  | November\$  | 788.50   |
| August Steink  |   | umi ci,  | Police Fund   |  |
| By Ald. Fieg   |   |  | Frank Pardon, salary\$  |  |
|  | at this Common  | Coun-  | Thomas O'Brien, salary  | 40.00  |
|  | ermine the pro  |  | Wm. Blackburn, salary<br>Wm. J. Aprill, salary  | $35.00 \\ 35.00$   |
|  | ard Street to be  |  | Gustave Meyer, salary   | 35.00  |
| able, therefore  |   | auvis-   | Ruben Armbruster, salary  | 35.00  |
|  | it the Common   | Coun-  | Ed. Blumhardt, salary   | 35.00  |
|  | notice of the p   |  | Frank Keihl, salary   | $35.00 \\ 32.50$   |
|  | dward street, t   |  | Emanue. Sodt, salary<br>Earl Walker, salary   | 32.50  |
| persons interes  |   |  | Marlend Howard, salary  | 32.50  |
| Council meet at  |   | m., on   |   |  |
|  | 6th, 1915, to co  |  | Total salanes for 1/2 month of  | 000 10   |
|  | accordance with   |  | November\$ Frank Pardon, detective services   | 389.16   |
|  | ec. 127 of the c  |  | paid\$  | 10.00  |
| of the City of   |   | narter   |   |  |
|  | unanimous vo  | te of  | Police fund total\$   | 399.16   |
| those present, 1   |   | ic or  | Contingent Fund   |  |
|  | mil Golz, et a  | 1 for  | M. C. Ryan, salary\$  | 30.00  |
|  | on Fifth st., so  |  | Engineer Dept.  | 11   |
| •  | eived, and refer  |  | R. A Dodge, labor\$   | $\frac{11.55}{3.25}$   |
| Sewer committee  |   | rea to   | Emanuel Holzapfel, labor  | 17.50  |
|  | Emil Golz, et a   | 1 for  | Tom O'Neill, labor  | 26.00  |
|  | n Fifth st., sou  |  | Horace H. Person, labor   | 42.00  |
|  | ceived and refer  |  | C. F. Seymour, labor  | 20.40  |
| Water Commiss  |   | rea to   | C. W. Smedberg, labor   | $\frac{42.00}{3.25}$   |
|  | d. Manwaring, th  | at the   | Martin Walsh, labor   | 16.80  |
|  | ing Mr. Freeme  |  |   |  |
|  | hone box in the   |  | Total Engineer dept\$   | 182.75   |
|  | Central railroa   |  | Washtenaw Gas Co., city hall\$  | 3.85   |
|  | to Street com   |  | Doubleday-Hunt-Dolan Co., sup-  | 25 00  |
| Adopted.   | i to serect comi  | illicoo.   | plies<br>Eberbach Pharmacy, supplies  | $\frac{35.00}{1.50}$   |
|  | presented for   | Park   | George Wahr, supplies   | .95  |
| property, as vo  |   | people   | D. F. Woodward, supplies, etc   | 4.60   |
| Sept. 16th, 191  |   | people   | The Michigan Daily, printing  | 4 11   |
|  |   |  | The Michigan Dany, printing   | 4.14   |
|  |   | shaah  | Rohde's Livery, livery  | 2.00   |
| Moved by Ale   | d. G. Lutz, That  |  | Rohde's Livery, livery C. H. Brock, livery  |  |
| Moved by Ale<br>be accepted and  | d. G. Lutz, That<br>d Clerk draw wa   |  | Rohde's Livery, livery C. H. Brock, livery Thos. Hanselmann, auto for com-  | $\frac{2.00}{6.00}$  |
| Moved by Ale<br>be accepted and<br>for amounts du  | d. G. Lutz, That<br>I Clerk draw wa<br>e on same.   | rrants   | Rohde's Livery, livery C. H. Brock, livery Thos. Hanselmann, auto for commenters  | $\frac{2.00}{6.00}$  |
| Moved by Ale<br>be accepted and<br>for amounts du<br>Adopted by  | d. G. Lutz, That<br>d Clerk draw wa<br>e on same.<br>unanimous vo   | rrants   | Rohde's Livery, livery C. H. Brock, livery Thos. Hanselmann, auto for committees Thos. Hession, curbing   | 2.00<br>6.00<br>8.00<br>24.98  |
| Moved by Ale<br>be accepted and<br>for amounts du<br>Adopted by<br>those present, 1  | d. G. Lutz, That<br>d Clerk draw wa<br>e on same.<br>unanimous vo<br>4.   | rrants   | Rohde's Livery, livery C. H. Brock, livery Thos. Hanselmann, auto for committees Thos. Hession, curbing Total supplies, etc\$   | 2.00<br>6.00<br>8.00<br>24.98<br>91.02   |
| Moved by Ale<br>be accepted and<br>for amounts du<br>Adopted by<br>those present, 1<br>Comm  | d. G. Lutz, That<br>d Clerk draw wa<br>e on same.<br>unanimous vo   | rrants   | Rohde's Livery, livery C. H. Brock, livery Thos. Hanselmann, auto for committees Thos. Hession, curbing  Tota' supples, etc\$ Contingent fund total\$   | 2.00<br>6.00<br>8.00<br>24.98<br>91.02   |
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| Moved by Alebe accepted and for amounts du Adopted by those present, 1  Comm FINAN  Chas, J. Andrews   | d. G. Lutz, That d Clerk draw wa e on same. unanimous vo 4. ittee Reports. NCE REPORT fire Fund s, salary   | te of  | Rohde's Livery, livery C. H. Brock, livery Thos. Hanselmann, auto for committees Thos. Hession, curbing  Tota' supples, etc \$ Contingent fund total \$  Steere Farm A. F. Freeman, services \$ Building Sidewalk Fund  | 2.00<br>6.00<br>8.00<br>24.98<br>91.02<br>803.77   |
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| Moved by Alebe accepted and for amounts du Adopted by those present, 1  Comm FINAN  Chas, J. Andrews Eugene Williams Geo Hoelzle, sal Ralph Edwards, Henry McLaren, Jacob Gwinner, Arthur Clark, sal Harley Wise, sal Martin Noll, sal Geo. Isbel, salar Frank Markey, Thomas Shamp, Clyde Carpenter, Harold Darling, Herman Kruse, Ed. Kleinschmidt Emil Damman, Edward Kapp, s   | d. G. Lutz, That I Clerk draw wa e on same. unanimous vo 4. ittee Reports. ICE REPORT Fore Fund s, salary   | * 50.00<br>38.50<br>38.50<br>38.50<br>36.50<br>35.00<br>35.00<br>35.00<br>35.00<br>35.00<br>35.00<br>35.00<br>35.00<br>35.00<br>35.00<br>35.00   | Rohde's Livery, livery C. H. Brock, livery Thos. Hanselmann, auto for committees Thos. Hession, curbing  Total supples, etc. \$ Contingent fund total \$ Steere Farm A. F. Freeman, services \$ Building Sidewalk Fund Thos. Hession, walks built \$ C. M. Thompson & Son, walks built  Total \$  Water Works Fund W. H. Willsher, services Leslie Bush, services Leslie Bush, services Leslie Bush, services Fred Schwikert, services John Ford, services J. Schwikert, services Henry Linde, services John Wood, services A. E. Hawkes, services Cliff Shetterly, services  | 2.00<br>6.00<br>8.00<br>24.98<br>91.02<br>803.77<br>263.68<br>123.62<br>20.93<br>37.50<br>37.50<br>37.50<br>30.00<br>30.00<br>32.50<br>32.50<br>32.50<br>37.50<br>41.66  |
| Moved by Alebe accepted and for amounts du Adopted by those present, 1  Comm FINAN  Chas, J. Andrews Eugene Williams Geo Hoelzle, sal Ralph Edwards, Henry McLaren, Jacob Gwinner, Arthur Clark, sal Harley Wise, sal Martin Noll, sal Geo. Isbel, salar Frank Markey, Thomas Shamp, Clyde Carpenter, Harold Darling, Herman Kruse, Ed. Kleinschmidt Emil Damman, Edward Kapp, s James Sumrer,   | d. G. Lutz, That I Clerk draw wa e on same. unanimous vo 4. ittee Reports. ICE REPORT For Fund s, salary  | * 50.00<br>\$ 50.00<br>\$ 8.50<br>\$ 38.50<br>\$ 36.50<br>\$ 35.00<br>\$ 30.00<br>\$ 30.00<br>\$ 30.00<br>\$ 30.00<br>\$ 30.00<br>\$ 30.00   | Rohde's Livery, livery C. H. Brock, livery Thos. Hanselmann, auto for committees Thos. Hession, curbing  Tota' supples, etc   | 2.00<br>6.00<br>8.00<br>24.98<br>91.02<br>803.77<br>263.68<br>123.62<br>20.93<br>37.50<br>37.50<br>37.50<br>30.00<br>30.00<br>32.50<br>32.50<br>32.50<br>37.50   |
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| Moved by Alebe accepted and for amounts du Adopted by those present, 1  Comm FINAM  Chas, J. Andrew Eugene Williams Geo Hoelzle, sal Ralph Edwards, Henry McLaren, Jacob Gwinner, Arthur Clark, sa Harley Wise, sa Martin Noll, sal Geo. Isbel. salar Frank Markey, Thomas Shamp, Clyde Carpenter, Harold Darling, Herman Kruse, Ed. Kleinschmidt Emil Damman, Edward Kapp, s James Sumrer, Nelson Hoppe, sa Theodore Higgen Chas, Carroll, sa   | d. G. Lutz, That I Clerk draw wa e on same. unanimous vo 4. ittee Reports. ICE REPORT Ire Fund s, salary                      | * 50.00 38.50 38.50 38.50 36.50 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00  | Rohde's Livery, livery C. H. Brock, livery Thos. Hanselmann, auto for committees Thos. Hession, curbing  Total supples, etc. \$ Contingent fund total \$ Steere Farm A. F. Freeman, services \$ Building Sidewalk Fund Thos. Hession, walks built \$ C. M. Thompson & Son, walks built  Total \$  Water Works Fund W. H. Willsher, services \$ Leslie Bush, services Leslie Bush, services Leslie Bush, services Fred Schwikert, services John Ford, services J. Schwikert, services Henry Linde, services Henry Linde, services Louise Malloy, services Louise Malloy, services Raymond Spokes, services Total services for ½ month of   | 2.00<br>6.00<br>8.00<br>24.98<br>91.02<br>303.77<br>263.68<br>123.62<br>20.93<br>144.55<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50<br>37.50 |
| Moved by Alebe accepted and for amounts du Adopted by those present, 1  Comm FINAM  Chas, J. Andrew: Eugene Williams. Geo Hoelzle, sal Ralph Edwards, Henry McLaren, Jacob Gwinner, Arthur Clark, sa Harley Wise, sa Martin Noll, sal Geo. Isbel. salar Frank Markey, Thomas Shamp, Clyde Carpenter, Harold Darling, Herman Kruse, Ed. Kleinschmidt Emil Damman, Edward Kapp, salames Sumrer, Nelson Hoppe, sa Theodore Higgen Chas, Carroll, sa Frank Kapp, sal   | d. G. Lutz, That I Clerk draw wa e on same. unanimous vo 4. ittee Reports. ICE REPORT Ire Fund s, salary | * 50.00 38.50 36.50 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 30.00 30.00 30.00 30.00 30.00 23.00 23.00 23.00  | Rohde's Livery, livery C. H. Brock, livery Thos. Hanselmann, auto for committees Thos. Hession, curbing  Tota' supples, etc. \$ Contingent fund total \$ Steere Farm A. F. Freeman, services \$ Building Sidewalk Fund Thos. Hession, walks built \$ C. M. Thompson & Son, walks built  Total \$ Water Works Fund W. H. Willsher, services \$ Joel West, services Leslie Bush, services Robert Stoll, services Fred Schwikert, services John Ford, services J. Schwikert, services Henry Linde, services Henry Linde, services John Wood, services Louise Malloy, services Raymond Spokes, services  Total services for ½ month of November   | 2.00<br>6.00<br>8.00<br>24.98<br>91.02<br>303.77<br>263.68<br>123.62<br>20.93<br>  |
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| Moved by Alebe accepted and for amounts du Adopted by those present, 1  Comm FINAN  Chas, J. Andrews Eugene Williams Geo Hoelzle, sal Ralph Edwards, Henry McLaren, Jacob Gwinner, Arthur Clark, sal Harley Wise, sal Martin Noll, sal Geo. Isbel, salar Frank Markey, Thomas Shamp, Clyde Carpenter, Harold Darling, Herman Kruse, Ed. Kleinschmidt Emil Damman, Edward Kapp, sal Alebe Sumrer, Nelson Hoppe, sa Theodore Higgen Chas, Carroll, sal Frank Kapp, sal Ale McNamara, sal   | d. G. Lutz, That I Clerk draw wa e on same. unanimous vo 4. ittee Reports. ICE REPORT Ire Fund s, salary | * 50.00 38.50 36.50 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 30.0 | Rohde's Livery, livery C. H. Brock, livery Thos. Hanselmann, auto for committees Thos. Hession, curbing  Tota' supples, etc. \$ Contingent fund total \$ Steere Farm A. F. Freeman, services \$ Building Sidewalk Fund Thos. Hession, walks built \$ C. M. Thompson & Son, walks built  Total \$ Water Works Fund W. H. Willsher, services \$ Joel West, services Leslie Bush, services Robert Stoll, services Fred Schwikert, services John Ford, services J. Schwikert, services Henry Linde, services Henry Linde, services John Wood, services Louise Malloy, services Raymond Spokes, services  Total services for ½ month of November   | 2.00<br>6.00<br>8.00<br>24.98<br>91.02<br>303.77<br>263.68<br>123.62<br>20.93<br>  |

| R. Rhodenbecker, labor 12.50  | Mrs. H. Marquardt, team 29.70  |
|---|--|
| H. Koernke, labor   | John Miller, team         49.50           Robert Miller, team         40.63        |
| J. Nimz, labor  | Carl Rehberg, team 93.75   |
| Chris. Larmee, labor 26.25  | Orin Schafer, team 36.00   |
| Aug. Molkentine, labor       27.00         H. Norgord, labor       14.50          | George Schaible, team  |
| Fred Luepke, labor 24.00  | Mrs. Joe Schwab, team 29.00  |
| P. Carey. labor 15.75   | W. H. Seeley, team 49.50   |
| Total labor\$289.43   | O. D. Taft, team   |
| Schumacher Hardware Co., sup-   | Claud Young, team 54.00  |
| plies \$ 18.85<br>Schuracher & Backhaus, supplies 4.80                            | Total labor\$1,269.45  |
| Roe Stephens Mfg. Co., supplies 56.70   | Thos. Hession, extensions\$ 4.00   |
| James B. Clow & Sons, supplies 28.74  |  |
| Christian Schlenker, supplies 1.20<br>Electro bleaching Gas Co., supplies 50.89   | Street fund total\$1,273.45  |
| The Laidlaw Dunn Gordon Co.,  | Recapitulation Contingent fund\$ 303.77  |
| Standard Oil Co. supplies 6.02  | Fire fund 788.50   |
| Standard Oil Co., supplies 6.93<br>The Garlock Packing Co., supplies 12.70        | Police fund         399.16           Steere Farm fund         263.68               |
| The Machine Specialty Co., supplies 3.60  | Steere Farm fund   |
| L. E. Wenzel, supplies  | Water Works fund 1,357.43  |
| Ohio & Mich. Coal Co., supplies 54.70   | Park fund         33.67           Street fund         1,273.45                     |
| Washtenaw Electric Shop, supplies 1.73  |  |
| Gus. J Vogel, supplies  | Total\$4,564.21  |
| James W. Robison, livery 2.00   | Ann Arbor, Mich., Nov. 15, 1915.  To the Finance committee of the Com-             |
| John R. Miner, insurance 9.60<br>Archie Miller, services 22.24                    | mon Council: Gentlemen—I have exam-  |
| Archie Miller, services   | ined the foregoing accounts against the  |
|   | city of Ann Arbor, and I hereby certify<br>that they are correct to the best of my |
| Total supplies, etc\$656.34 Water Works fund total\$1,357.43                      | knowledge. ROSS GRANGER, City Clerk.   |
| Park Fund   | To the Honorable, the Common Council:<br>Gentlemen—Your Finance committee has      |
| Mort Bowen, labor\$ 8.07  | reviewed the foregoing report. We rec-   |
| J. W. O'Brien, labor  | ommend that same be approved and that  |
| W. J. Randel, labor   | warrants be ordered drawn for the fore-<br>going accounts.                         |
|   | GEO. LUTZ, ALBERT FIEGEL, Finance  |
| Total labor\$ 32.60 Michigan Central R. R Co., freight 1.07                       | Committee.  Ald. G. Lutz moved the adoption of                                     |
|   | the report, which was adopted by un-   |
| Park fund total\$ 33.67   | animous vote of those present, 14.   |
| Street Fund Douglas Bycraft, labor\$ 23.75  | Engineer's Estimate.   |
| Wm. Clark labor 30.00   | (From Board of Public Works.)  |
| Emanuel Holzapfel, labor 21.75<br>Matt Koch, labor 24.00                          | To the Board of Public Works, Ann  |
| Matt Kocn, labor         24.00           Fred Kraus, labor         9.00           | Arbor, Michigan: Sirs—I present the following final estimate for furnish-          |
| Geo. J. Mack, labor 24.00   | ing labor and material for the con-  |
| James Mason, labor       36.00         W. H. Romig, labor       24.00             | struction of the reinforced concrete   |
| Geo. J. Schaible, labor 24.11   | pavement on Geddes ave., from Ox-  |
| Eugene Schlanderer, labor 24.00<br>A. G. Schneeberger, labor 24.11                | ford road to Oswego st., and recom-  |
| A. G. Schneeberger, labor 24.11<br>Adam Seyfried, labor 24.00                     | mend payment of the amount now   |
| Jacob F. Staebler, labor 24.00  | due to Messrs. Barnes & O'Neil, the contractors.                                   |
| Fred Ulrich, labor  | 1614 cu. yds. grading at 45c \$726.30  |
| John Wendland, labor 24.00  | 1840 lin. ft. of curbing at 28c 515.20   |
| Robert Barnard, team  | 1595.3 lin. ft. drain tile at 6c 95.72   |
| Jacob Becks, team         36.00           Max Bethke, team         54.00          | 3272.7 sq. yds. reinforced   |
| Rod. Biddle, team 36.00   | concrete paving at \$1.14 3730.88  |
| J. B. Elfring, team   | 134.5 lin. ft. headers at 70c 94.15  |
| Eu. Grame, tours  |  |
| John J. Gutekunst, team 11.00   | Total\$5162.25   |
| Fred G. Hanselman, team 54.00   | Total\$5162.25<br>Extra for increased thickness                                    |
| Fred G. Hanselman, team         54.00           Wm. Henderson, team         36.00 | Extra for increased thickness of expansion joint 10.50                             |
| Fred G. Hanselman, team         54.00           Wm. Henderson, team         36.00 | Extra for increased thickness  |

bride rd. and Medalion st. 2.25Total .....\$5175.00 Less for time of men setting castings.. 13.12 Less for 56 ft. mesh reinforcing at 5c. Less for water used in construction .. 46.19 62.11

Balance .....\$5112.89 Less amount of previous esti-...... 4098.60

Amount now due contractor \$1014.29 Respectfully submitted, Manley Osgood, City Engineer.

Moved by Mr. Reule, that estimate of Barnes & O'Neil be recommended to Council for payment. Adopted by

(Action of Council.)

Moved by Ald. G. Lutz, that recommendation of the Board be concurred in, and the City Clerk instructed to draw warrant for amount due.

of Adopted by unanimous vote those present, 14.

### Ordinance Committee.

Ald. Sink presented an ordinance entitled, "An ordinance to Amend an Ordinance entitled, 'An Ordinance Relative to Porters, Runners and Drivers and to Regulate Hacks and Drays," passed March 16th, 1896; Approved March 17th, 1896; Amended August 20th, 1900; which was given its third reading November 1st, 1915.

An Ordinance to Amend an Ordinance entitled, "An Ordinance Relative to Porters, Runners and Drivers and to Regulate Hacks and Drays," passed March 16th, 1896; approved March 17th, 1896; amended August

20th, 1900.

The Common Council of the City of Ann Arbor Ordain:

That section two of an Section 1. entitled "An ordinance Ordinance Runners and Relative to Porters, Drivers, and to regulate Hacks and Drays;" Passed March 16th, 1896; approved March 17th, 1896, be and the same is hereby amended to read as follows:

Section 2. Every person licensed to use any cart, truck, wagon, or other vehicle for the transportation of any property, for hire, within the limits of the City of Ann Arbor, shall

rates of prices for such transportation, and no more:

For the moving and carting of furniture, for a truck, dray or other vehicle, team and two men, one dollar and twenty-five cents per hour, the time to be computed from the time the dray or truck leaves the office or warehouse until its return and forty cents per hour for each extra man demanded; ninety cents per hour for dray or truck, team and one man; for moving of upright piano, first floor to first floor, in load, one dollar each; for moving of upright piano, first floor to first floor, not in load, two doilars.

The following charges may be made for general draying: For a truck or dray, team and two men, one dollar per hour; thirty cents per hour for each extra man required; seventy-five cents per hour for dray or truck, team and one man.

The following charges may made for general team work. Sixty cents per hour for wagon, team and one man; thirty cents per hour for each extra man.

The charges for any of the above work done with a dray or truck drawn with one horse shall be threefourths of the amount charged for a dray or truck drawn by two horses.

The charges for motor vehicles shall be the same as for two horse drawn vehicles.

The charge for conveying any single box or trunk, except fragile articles, not exceeding in weight one hundred fifty pounds, 1st floor to 1st floor to any part of the city shall be twenty-five cents.

And no greater sum shall be demanded and received, unless by previous agreement by the parties interested, but not to make an unreasonable or exorbitant charge for moving any such property or thing.

Every person driving, or having in charge, any dray, cart, or other for the transportation of vehicle property for hire, shall keep and immediately produce, upon request, a correct copy of this section of this ordinance, to be furn'shed, upon application, by the City Clerk.

Any person who shall make and collect any overcharge on the above rates shall forfeit and pay a fine of not to exceed five dollars and costs of prosecution for a first offense, and not exceeding twenty-five dollars and be allowed to charge the following costs of prosecution for a second ofany such fine the offender may be other vehicle.

Neshtenaw County 3. Vehicles going in opposite direction. jail for a period not to exceed ninety days.

Section 2. All ordinances and parts of ordinances heretofore passed by the City of Ann Arbor in conflict with this amendment or any provision of the same are hereby repealed.

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

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

Passed by following vote: Yeas, Ald. Fiegel, Hanselmann, A. Lutz, Koernke, Heck, Markey, Flynn, Sherk, Manwaring, McGregor, Freeman, G. Lutz, Sink, Pres. Wurster, 14. Nays, none.

Ald. Sink presented an ordinance entitled, "An Ordinance to Amend an Ordinance, entitled 'An Ordinance to Regulate and Control the Driving of Automobiles, Motor Vehicles and Other Vehicles Within the City of Ann Passed August 21st, 1911; Arbor.." Approved August 23rd, 1911; which was given its third reading as follows:

An ordinance to Amend nance entitled, "An ordinance to regulate and control the Driving of Automobiles, Motor Vehicles other Vehicles within the City of Ann Arbor." Passed August 21st. Approved August 23rd, 1911.

The Common Council of the City

of Ann Arbor Ordain:

Sec. 1. That sections two three of an Ordinance entitled, "An Ordinance to Regulate and Control the Driving of Automobiles, Motor Vehicles and other Vehicles Within the City of Ann Arbor," passed August 21st, 1911, approved August 23rd, 1911, be and the same is hereby amended to read as follows:

Sec. 2. The owner, operator, driver or person in charge of any cart, dray, hackney coach, omnibus, automobile, motor cycle, motor vehicle, carriage or other vehicle, except street cars, used, propelled or driven upon any street, alley or public place of the corporation shall conform to and observe the following rules of the road:

All vehicles shall be driven in a careful manner, and with due regard for the safety and convenience of other vehicles and of pedestrians.

Every vehicle shall keep on the right side of the road or street, except when necessary to turn to the

fense, and in default of payment of left in crossing or in overtaking an-

tions shall pass each other on the right.

Every vehicle overtaking other vehicle shall keep to the left of the overtaken vehicle in passing.

5. Vehicles turning to the left into another street, shall pass to the right of and beyond the center of street intersection before turning. districts and in congested where are stationed traffic policemen street intersections, an approaching automobile or vehicle must signal such officer and not enter such inuntil receiving proper tersection signal from said officer.

6. No vehicle shall be driven through a procession, except with the

permission of a police officer.

- 7. Every driver of a vehicle, when such vehicle is approaching a street car stopping for the purpose of takon or discharging passengers, shall give some signal plainly visible or audible to such passenger, and shall keep such vehicle at least six feet from the running board or lower step of such car; and if, either by reason of the presence of vehicles at the place where such car is stopping, or by reason of the narrowness of the street, it is not possible to preserve such distance of six feet from such running board or lower step, driver of said vehicle shall stop the same until such car shall have taken on or discharged its passengers and again started. Provided that a portion of each street hereinafter named where street cars are required to stop to receive or discharge passengers described as a strip of the street six feet in width and lying outside and adjacent to and parallel with outer car rail and running from the hither lot line sixty feet from the street intersection shall be deemed a safety zone, and it shall be a violation of the provisions of this ordinance to drive into said safety zones while persons are waiting for passage on any street car or alighting there-The above mentioned safety zones shall be established at the following places: At the corner of Main and Huron streets, corner of Main and Washington streets. corner of Liberty and Main streets, corner of Main and William streets, and at the corner of William and State streets and such other places as the Common Council may from time to time by resolution designate.
  - 8. No vehicle shall stand or stop

within any street intersection so as to obstruct the free passage of vehicles

and pedestrians.

No vehicle shall stop at any cross walk or sidewalk in such manner as to obstruct the free passage of pedestrians on such crosswalk or sidewalk, or for a longer period than is necessary to permit persons to alight from or to enter said vehicle.

10. No vehicle shall stop on any street, except within two feet of the curb, or in any such way as to obstruct free passage on the street, provided that this rule shall not apply when a driver of a vehicle is compelled to stop by reason of rule 7 of this section.

No vehicle shall cross 11. thoroughfare or make any turn thereon at a greater speed than one-half the legal speed limit upon such thor-

oughfare.

Automobiles 12. crossing any thoroughfare shall signal approaching vehicles and the vehicle nearest the approaching street intersection shall have the right of way wherever a traffic officer is not stationed; otherwise rule 5 must be strictly observed.

Vehicles moving slowly shall keep as near as may be convenient to the curb on the right allowing more swiftly moving vehicles free passage

on their left.

Drivers of motor vehicles before turning, stopping or changing their course, shall make sure such movement can be made with

safety.

Vehicles crossing fro n one 15. side of the street to the other in the congested district, shall do so by turning to the left so as to head in the same direction as the traffic on that side of the street toward which the crossing is made.

No vehicle shall stop in the congested district with its left side to automobile shall the curb, and no stop anywhere in the city with its left

side to the curb.

No vehicle shall remain backed up to the curb in the congested district unless it is actually loading or unloading, and in such case no longer than the actual loading or unloading requires.

Allautomobiles shall carry the proper number of lamps, shall during the period from one hour ing vehicle. after sunset to one hour before sunrise display the number and kinds of lights required by state law. mobile drivers may aid themselves in this rule by observing general the rule of lighting street lamps.

Automobiles leaving any public garage or alley, must stop before crossing the sidewalk line, and give proper signal, and the utmost care shall be used in entering same. Signals in such cases may freely.

20. The horse or horses attached to a vehicle backed up to the curb in the congested district shall be turned at right angles to the vehicle. and in the direction in which the traffic upon that side of the street is

moving.

21. No person while under the influence of liquor shall drive any kind of a vehicle upon the streets, highways or public places of the city.

The Chief of Police may from time to time prohibit the parking of motor vehicles or other vehicles in any district where such parking will interfere with traffic or the public safety, and no vehicle shall be parked at any time within twenty-five feet of

any fire hydrant.

Sec. 3. Lights on automobiles or motor vehicles being operated or standing upon said streets must be kept burning in front and rear during the time the city lights on the streets are lighted, and each of such automobiles or motor vehicles carry the state license exposed in front and rear, as required by the state law. Provided that every motor vehicle equipped with and using electric light or lights upon any of the public streets of this city shall be provided and equipped with some practical and efficient device or devices whereby the forward light or lights of such vehicle shall be dimmed or lessened to such an extent that such electric light or lights or the reflection therefrom through forward light or lights will not interfe'e with the sight of nor temporarily blind the vision of any pedestrian or the driver of any approaching vehicle. and it shall be the duty of each and every driver or chauffeur of such motor vehicle or other vehicle equipped with and using electric light or lights of the vehicle being driven by him and cause such light or lights to be dimmed and lessened so as not to interfere with the sight or temporarily blind the vision of any pedestrian or the driver of any approach-

Sec. 2. All ordinances or parts of ordinances inconsistent herewith are

hereby repealed.

Sec. 3. This ordinance shall take effect and be in force from and after ten days from legal publication.

11 of section 2 be amended by striking out the words "one-half the legal speed limit upon such thoroughfare" and inserting therefore the words "ten said rule when miles per hour"; amended to read:

11. No vehicle shall cross any thoroughfare or make any turn thereon at a greater speed than ten miles per

hour.

Amendment adopted by following vote: Yeas, Ald. Fiegel, Hanselmann, Lutz, Koernke, Heck, Markey, Flynn, Sherk, Manwaring, McGregor, Freeman, G. Lutz, Sink, Pres. Wurster, 14. Nays, none.

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

Passed by following vote: Yeas, Ald. Fiegel, Hanselmann, A. Lutz, Koernke, Heck, Markey, Flynn, Sherk, Manwar-Freeman, G. Lutz, McGregor, Sink, Pres. Wurster, 14. Nays, none.

Ald. Sink presented an ordinance entitled, "An ordinance to Amend an Ordinance entitled, 'An Ordinance Fires'," Relative to Fire Limits and which was given its second reading, passed to and given its third reading by unanimous vote of those present,

An Ordinance to Amend an Ordinance Entitled, "An Ordinance Relative to Fire Limits and Fires," passed Octoher 7, 1895; approved October 12, 1895; amended June 4, 1900: amended March 19, 1906; amended December 3, 1906; amended April 10, 1913, amended August 17, 1914.

The Common Council of the City of

Ann Arbor ordain:

Section 1. That Section one (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 April 10, 1913; amended August 17, 1914, and the same is hereby amended to read as follows:

No person, firm or cor-Section 1. poration shall hereafter place, enlarge or erect any building or other structure on any lot or part of lot fronting on any of the following streets

parts of streets, to-wit:

On Main street between Kingsley and William streets; On Huron street between First street and Fifth avenue; On Washington street between and the Ann Arbor Railroad street; On Liberty street between the none.

Moved by Ald. Manwaring, that rule Ann Arbor Railroad and State street; On Catherine street between Ashley street and Fifth avenue; On street between Ashley street Fifth avenue; On Fourth avenue between Kingsley street and Liberty street; On the west side of Fifth avenue between Kingsley and Liberty streets; On Ashley street William streets; On Catherine and State street, between William and Huron streets; On William street betweep State street and the Ann Arbor Railroad; On Maynard street between William and Liberty streets; Detroit street between Fourth avenue street; on the and Depot bounded as follows, to-wit: On the north by Fuller street, on the south by Kingsley street, on the east by North State street, and on the west by Elizabeth street; On North University avenue between South State street and East University avenue; University avenue from East North University avenue to South University avenue; On South University avenue from Forest avenue to State street: On Church street from South University to Washtenaw avenue: On Forest avenue from University avenue to Washtenaw avenue: On Church street; and on the west side of Thayer street Washington street to North University avenue in this City, unless such building or structure shall be constructed of stone, reinforced concrete brick or with party or fire walls of the same material.

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

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

> Passed by following vote: Yeas, Ald. Fiegel, Hanselmann, A. Lutz, Koernke, Heck, Markey, Flynn, Sherk, Manwaring, McGregor, Freeman, G. Lutz, Sink, Pres. Wurster, 14. Nays, none.

Ald. Sink presented an ordinance entitled, "An Ordinance to Prevent the Operation of Dangerous and Defective Street Cars and Secure Peace and Safety in the Streets." which was given its first reading by title and referred to the Ordinance committee by following vote: Ald. Fiegel, Hanselmann, A. Koernke, Heck, Markey, Flynn, Sherk, Manwaring, McGregor, Freeman, G. State Lutz, Sink, Pres. Wurster, 14. Nays,

| 476 COMMON COUNCIL—   | NOVEMBER 15, 1915.   |
|---|--|
| Fire Committee.   | Sprinkling Dist. No. 14—<br>Taxes collected                                  |
| To the Council: Gentlemen—Your fire committee and Board of Fire             | Total  |
| Commissioners have had the following  | Warrants pai\$14,843.32  |
| matters under consideration and rec-  | Balance \$ 120.76  |
| ommend:<br>1st. That Engine House No. 2 be                                  |  |
| abandoned.  | Oct. 1 on hand   |
| 2nd. That Engine House No. 1 be   | Condition of City Funds on the First Day of November, 1915:                  |
| repaired as follows: three large doors and one small door to be new, chim-  | Warrants paid—   |
| ney to be rebuilt from roof up and en-                                      | Contingent fund  |
| tire new heating plant be established.                                      | Dog License fund 5.50  |
| Respectfully submitted, Wm. F. Flynn<br>Albert S. Lutz, Frank E. Heck, Fire | Fire Department fund 1,668.58 Poor fund                                      |
| Committee.  | Police fund  |
| Moved by Ald. G. Lutz, that propo-  | Park fund 396.06   |
| sition No. 1 be accepted and adopted Adopted by unanimous vote of those     | Street Light fund         1,494.95           Sidewalk func         4.11      |
| present, 14.  | Bridge Culvert and Crosswalk   |
| Moved by Ald. Flynn, that propo-  | fund   |
| sition No. 2 be referred to the Board of Public Works to furnish Council    | Sprinkling District No. 11 224.60<br>Sprinkling District No. 12 129.20       |
| with plans and specifications as rec-                                       | Sprinkling District No. 14 107.60  |
| ommended. Adopted.  | Entertainment fund 165.00  |
| Officer's Reports. City Treasurer's Report.                                 | Total\$14,823.16   |
| CITY FUNDS-Treasurer's Report For   | On Hand—Contingent fund  |
| Month Ending, October, 1915.  Money Received—                               | City Cemetery fund   |
| County_fund—  | State Dog Tax fund 100.00  |
| Chas. J. Andrews, city scales\$ 6.90  | Fire Department fund 9,299.09<br>Poor fund 1,791.20                          |
| C. Kensler, Milk license 1.00<br>Dray and taxi license 5.50                 | Police fund         6,313.81           Street fund         3,167.39          |
| Peddlers license 84.00  | Water fund 4,584.25  |
| Fees on taxes collected 13.67<br>Int. on bank balance 110.21                | Park func  |
| Total\$ 221.18  | Sidewalk fund  |
| Cemetery fund-  | fund   |
| Burial permits  | Water Works fund         27,537.88           Steere Farm fund         450.31 |
|   | Detention Hospital fund 40.00<br>Rejected Tax fund 117.53                    |
| Bonds sold to Detroit Trust Co.   | Sprinkling District No. 15 27.11   |
| to apply 720.00 Police fund—  | Entertainment fund 520.00  |
| Frank Pardon, chief, city fees\$23.25                                       | Total  |
| Frank Pardon, chief,  |  |
| city fines  | On hand Nov. 1, 1915\$54,301.14<br>Overdrawn—                                |
| Total 60.25<br>Street fund—   | Sidewalk Building fund\$ 654.06  |
| Cement for building culvert for   | Uncollected City Tax fund 25.094.85<br>Delinquent Tax fund 5,746.72          |
| driveway 7.00 Park fund—  | Sprinkling District No. 11 472.37<br>Sprinkling District No. 12 391.01       |
| Rent of mower\$ 2.50  | Sprinkling District No. 13 66.86   |
| Shrubbery campaign 125.00   | Sprinkling District No. 14 231.72  |
| Total 127.50<br>Sidewalk Bldg. fund—  | Total  |
| Walks built of city 469.52  | Contingent fund \$ 193.12  |
| Water Works fund—<br>Rec'd. from Mgr. Vandawalker 11,387.30                 | Fire Department fund 56.04<br>Street fund 6.40                               |
| Sprinkling Dist. No. 11—<br>Taxes collected                                 | Park fund         13.95           Water Works fund         29.24             |
| Sprinkling Dist. No. 12—<br>Taxes collected                                 |  |
| 131 X DS COTTECTED 445 84   | Total\$ 298.75   |

| SEWER FUNDS-Treasurer's Report for  | Tax Acc. Lateral Sewer No. 59 104.83   |
|---|--|
| Month Ending October, 1915.   | Tax Acc. Lateral Sewer No. 61 664.57   |
| Money Received—   | Tax Acc. Lateral Sewer No. 63 132.23   |
| Tax Acc. Sewer Dist. No. 53-  | Tax Acc. Lateral Sewer No. 64 185.17   |
| Taxes collected\$ 21.03   | Tax Acc. Lateral Sewer No. 65 64.15  |
| Tax Acc. Sewer Dist. No. 55—  | Tax Acc. Lateral Sewer No. 66 103.16   |
| Taxes collected 132.34  | Tax Acc. Lateral Sewer No. 67 157.49   |
| Tax Acc. Sewer Dist. No. 56—  | Labor Acc. Lateral Sewer No. 42, 170.03  |
| Taxes collected   | Labor Acc. Lateral Sewer No. 43, 161.63  |
| Tax Acc. Sewer Dist. No. 58—  | Labor Acc. Lateral Sewer No. 44, 204.26<br>Labor Acc. Lateral Sewer No. 45, 247.32 |
| Tax Acc. Sewer Dist. No. 60—  | Labor Acc. Lateral Sewer No. 45, 241.32<br>Labor Acc. Lateral Sewer No. 46, 538.53 |
| Taxes collected   | Labor Acc. Lateral Sewer No. 47, 532.71  |
| Tax Acc. Sewer Dist. No. 61—  | Labor Acc. Lateral Sewer No. 48, 199.27  |
| Taxes collected   | Labor Acc. Lateral Sewer No. 50, 98.35   |
| 2                                     | Labor Acc. Lateral Sewer No. 54, 270.88  |
| Total\$ 507.58  | Labor Acc, Lateral Sewer No. 55, 423.08  |
| Warrants paid 34.29   | Labor Acc Lateral Sewer No. 57, 247.37   |
|   | Labor Acc. Lateral Sewer No. 58, 166.85  |
| Balance \$ 473.29   | Labor Acc. Lateral Sewer No. 59, 164.92  |
| Oct. 1 Overdrawn \$ 8,268.04  | Labor Acc. Lateral Sewer No. 60, 68.57   |
| V 10 1  | Labor Acc. Lateral Sewer No. 61, 733.82  |
| Nov. 1 Overdrawn \$ 7,794.75  | Labor Acc. Lateral Sewer No. 62, 150.60  |
| Condition of the Sewer Funds on the   | Total 919.470.50   |
| First Day of November, 1915:<br>Warrants Paid—                              | Total\$12,479.56   |
| Labor Acc. Lateral Sewer No. 64, \$ 34.29                                   | PAVING FUNDS—Treasurer's Report for  |
| Labor Acc. Dateral Sewer No. 04, 5 54.29                                    | Month Ending October, 1915.  |
| Total\$ 34.29   | Money Received—  |
| On Hand—  | Tax Acc. Pav. Dist. No. 12—<br>Taxes collected\$ 26.51                             |
| Tax Acc. Lateral Sewer No. 27\$ 13.06                                       | Tax Acc. Pav. Dist. No. 15-  |
| Tax Acc. Lateral Sewer No. 35 276.47  | Taxes collected  |
| Tax A2c. Lateral Sewer No. 41 132.55  | Tax Acc. Pav. Dist No. 27—   |
| Tax Acc. Lateral Sewer No. 42 223.79  | Taxes collected 4.07   |
| Tax Acc. Lateral Sewer No. 44 208.85  | Tax Acc. Pav. Dist. No. 28-  |
| Tax Acc. Lateral Sewer No. 45 250.62  | Taxes collected 8.04   |
| Tax Acc. Lateral Sewer No. 46 497.60  | Tax Acc. Pav. Dist. No. 29-  |
| Tax Acc. Lateral Sewer No. 47 521.77  | Taxes collected 166.38   |
| Tax Acc. Lateral Sewer No. 48 227.73  | Labor Acc. Pav. Dist. No. 33-  |
| Tax Acc. Lateral Sewer No. 49 4.55  | Bonds sold and interest 339.25   |
| Tax Acc. Lateral Sewer No. 57 34.53   | Bonds sold and interest 503.33   |
| Tax Acc. Lateral Sewer No. 58 143.51  | Bonds sold and interest 503.33   |
| Tax Acc. Lateral Sewer No. 60 72.42<br>Tax Acc. Lateral Sewer No. 62 66.54  | Total\$ 1,098.92   |
| Labor Acc. Lateral Sewer No. 42. 43.18                                      | Warrants paid\$17,352.78   |
| Labor Acc. Lateral Sewer No. 51, 301.12                                     |  |
| Labor Acc. Lateral Sewer No. 52, 55.28                                      | Balance  |
| Labor Acc. Lateral Sewer No. 53, . 889.15                                   | Oct. 1 on hand\$30,615.45  |
| Labor Acc. Lateral Sewer No. 56, 91.26                                      |  |
| Labor Acc. Lateral Sewer No. 63, 570.69                                     | Nov. 1 on hand   |
| Labor Acc. Lateral Sewer No. 65, 11.88                                      | Condition of Uaving Funds on the First   |
| Labor Acc. Lateral Sewer No. 66, 19.10                                      | Day of November, 1915:   |
| Labor Acc. Lateral Sewer No. 67, 29.16                                      | Warrants Paid—<br>Labor Acc. Pavement No. 32 1,472.81                              |
| Total \$ 4,684.81   | Labor Acc. Pavement No. 32 1,472.81<br>Labor Acc. Pavement No. 33 3,040.87         |
| Total   | Labor Acc. Pavement No. 34 11,859.00   |
| Overurawn   | Labor Acc. Pavement No. 35 980.10  |
| On hand Nov. 1, 1915 \$ 7,794.75  | nabol Acc. l'avement ivo. bo boo.iv  |
| Overdrawn—  | Total\$17,352.78   |
| Tax Acc. Lateral Sewer No. 32\$ 909.69                                      | On Hand—   |
| Tax Acc. Lateral Sewer No. 33 58.68   | Tax Acc. Pavement No. 5\$ 1,079.01   |
| Tax Acc. Lateral Sewer No. 34. 1,299.21                                     | Tax Acc. Pavement No. 6 76.20  |
| Tax Acc. Lateral Sewer No. 36 245.07  | Tax Acc. Pavement No. 705  |
| Tax Acc. Lateral Sewer No. 37., 127.23                                      | Tax Acc. Pavement No. 8 641.09   |
| Tax Acc. Lateral Sewer No. 38 157.41  | Tax Acc. Pavement No. 11 789.70  |
| Tax Acc. Lateral Sewer No. 39 475.31  | Tax Acc. Pavement No. 13 296.99  |
| Tax Acc. Lateral Sewer No. 40 494.41  | Tax Acc. Pavement No. 14 32935   |
| Tax Acc. Lateral Sewer No. 43 53.22   | Tax Acc. Pavement No. 15 449.12  |
| Tax Acc. Lateral Sewer No. 50 285.55  | Tax Acc. Payement No. 16 140.50  |
| Tax Acc. Lateral Sewer No. 51 233.31  | Tax Acc. Pavement No. 17 318.01<br>Tax Acc. Pavement No. 18 1,364.27               |
| Tax Acc. Lateral Sewer No. 52 23.14 Tax Acc. Lateral Sewer No. 53 866.85    | Tax Acc. Pavement No. 18 1,364.27<br>'1 ax Acc. Pavement No. 19 823.23             |
| Tax Acc. Lateral Sewer No. 54 800.85<br>Tax Acc. Lateral Sewer No. 54 43.88 | Tax Acc. Pavement No. 19 823.25<br>Tax Acc Pavement No. 21 1.165.71                |
| Tax Acc. Lateral Sewer No. 55 185.31  | Tax Acc. Pavement No. 22 254.21  |
| Tax Acc. Lateral Sewer No. 56. 1,231.50                                     | Tax Acc. Pavement No. 23 948.87  |
| Tan Mich Butter Control Indiana   |  |

| 410  |   |
|--|---|
| Tax Acc. Pavement No. 24 262.47  | Monroe erst of State, 4th st. be-                     |
| Tax Acc. Pavement No. 25 23.57   | tween Liberty and Jefferson, S.                       |
| Tax Acc. Pavement No. 25 1.483.66  | Main between Packard and Madi-                        |
| Turk Tree, Turkey  |   |
| Tax Acc. Pavement No. 28 2,367.72  | son, W. Kingsley; filling holes:                      |
| Tax Acc. Pavement No. 29 1,943.41  | Cambridge road and Lincoln, 4th                       |
| Tax Acc. Pavement No. 30 441.88  | at Liberty; grading gutters:                          |
| Labor Acc. Pavement No. 20 254.34  | west side Michigan north of                           |
| Labor Acc. Pavement No. 34 3,603.57  | Wells and filling Wells west of                       |
| Labor Acc. Pavement No. 35 2,374.18  | Lincoln, White between Arch and                       |
| And the state of t | McKinley; clearing up alley                           |
| Total\$21,431.11   | north of William, west of Main;                       |
| 0dnown \$ 7,060.59   | filling intersection Detroit at Di-                   |
| Overdrawn \$ 7,069.52  |   |
| 414.001.70   | vision street.)                                       |
| On hand Nov. 1, 1915\$14,361.59  | Grading for sidewalks, labor 71.51                    |
| Overdrawn—   | (8th between Huron and Wash-                          |
| Tax Acc. Pavement No. 9\$ 1,444.56   | ington: Washington between 9th                        |
| Tax Acc. Pavement No. 10 2,063.39  | and Crest ave.; east side Olivia                      |
| Tax. Acc. Pavement No. 12 116.53   | north of Wells: lawn extension                        |
| Tax Acc. Pavement No. 20 425.13  | Cambridge road; White between                         |
| Tax Acc. Pavement No. 26 40.52   | McKinley and Dewey; Martin                            |
| Labor Acc. Pavement No. 30 265.89  | place; fill Washington west of                        |
|  | 14th; Granger ave. west of Pack-                      |
| Labor Acc. Pavement No. 31 126.15  |   |
| Labor Acc. Pavement No. 32 1,042.92  | ard street.)  |
| Labor Acc. Pavement No. 33 1,544.43  | Repairs pavements, labor 45.87                        |
|  | (State between Liberty and Wil-                       |
| Total\$ 7,069.52   | liam; (Gas Co., etc.) Packard at                      |
| Recapitulation   | school house; (Water dept.) 3                         |
| City funds on hand\$54,330.14  | cuts, intersection Madison, Divi-                     |
| Daving funds on hand   | sion and Packard; (Raab and R.                        |
| Paving funds on hand 14,361.59   | and Gas Co.) 2 cuts, Packard west                     |
| 000 001 50   | of Mary and Mary st; (Water                           |
| Total\$68,691.73   | dept.) 2 cuts, Packard at McKin-                      |
| Sewer funds overdrawn\$ 7,794.75   | ley; cut on Oswego st.; west side                     |
| · · · · · · · · · · · ·  | State north of Monroe; (Water                         |
| Balance\$60,896.98   | dent) Washington between (the                         |
| Bank balance\$60,666.77  | dept.) Washington between 4th                         |
| Cash on hand 230.21  | ave. and Main; (Gas Co. and                           |
|  | Riser) cut 5th ave. north of                          |
|  |   |
| Total\$60.896.98   | Packard).   |
| Total  | Packard).<br>City Engineer department acct.,          |
| Respectfully submitted: GEO. W. SWEET,   | Packard). City Engineer department acct., labor 51.50 |
| Respectfully submitted: GEO. W. SWEET, City Treasurer.   | Packard). City Engineer department acct., labor 51.50 |
| Respectfully submitted: GEO. W. SWEET,<br>City Treasurer.<br>Ann Arbor, Mich., Nov. 5, 1915.   | Packard).<br>City Engineer department acct.,          |
| Respectfully submitted: GEO. W. SWEET,<br>City Treasurer.<br>Ann Arbor, Mich., Nov. 5, 1915.<br>To the Honorable Common Council, City  | Packard). City Engineer department acct., labor       |
| Respectfully submitted: GEO. W. SWEET, City Treasurer. Ann Arbor, Mich., Nov. 5, 1915. To the Honorable Common Council, City of Ann Arbor, Michigan: Gentlemen—  | Packard). City Engineer department acct., labor       |
| Respectfully submitted: GEO. W. SWEET, City Treasurer.  Ann Arbor, Mich., Nov. 5, 1915. To the Honorable Common Council, City of Ann Arbor, Michigan: Gentlemen— This is the certify that Mr. George W.  | Packard). City Engineer department acct., labor       |
| Respectfully submitted: GEO. W. SWEET, City Treasurer.  Ann Arbor, Mich., Nov. 5, 1915. To the Honorable Common Council, City of Ann Arbor, Michigan: Gentlemen— This is the certify that Mr. George W. Sweet, City Treasurer, of Ann Arbor,   | Packard). City Engineer department acct., labor       |
| Respectfully submitted: GEO. W. SWEET, City Treasurer.  Ann Arbor, Mich., Nov. 5, 1915. To the Honorable Common Council, City of Ann Arbor, Michigan: Gentlemen— This is the certify that Mr. George W. Sweet, City Treasurer, of Ann Arbor, Michigan, had on deposit in the Commer-   | Packard). City Engineer department acct., labor       |
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| ten  | aw east of Oxford road, Fer-   | Expense general 1,191.58   |     |
|--|--|--|-----|
|  | n road, Norway, S. Main, John  | Expense, construction 4,230.70   |     |
| K.   | ave, 1st south of Moseley.)  |  |     |
|  | vall extensions, crosswalks,   |  |     |
| cen  | nent storm water culverts, etc,  | Expense, construction No.  |     |
| lab  | or 167.99  | <b>1</b> 2,813.76  |     |
| (R   | elaying crosswalk across Ann   | Expense, construction No.  |     |
|  | t side 1st and extensions S. E.  | 2 2.94   |     |
| and  | 1 N. E. corners; gutter box  | Expense, repair mains 24.25  |     |
|  | l extension S. W. corner Pros-   | Expense, repair house con-   |     |
| peo  | t and E. University; gutter  |  |     |
|  | S. W. corner Michigan and  | nections   |     |
|  | ells and lowering crosswalk;   | Expense, repair Sta1 14.82   |     |
|  | tter box N. E. corner Forest   | Expense, repair Stat. 2 13.50  |     |
| ane  | Hill and raising crosswalk   | Refunds and tranfers when  |     |
| acr  | oss Hill west side Forest; re-   | paid in advance 334.89   |     |
|  | ing old cobble crosswalk with  | Meter per cent setting and   |     |
|  | ck across 12th north side Mon-<br>and extension S. E. corner;  | cost of 35.70  |     |
|  | ension S. W. corner 12th and   | Insurance 46.00  |     |
|  | ll: relaying crosswalks east   |  |     |
| 9 111  | d west sides Lincoln across  |  |     |
| Car  | mbridge road and north and   | Power Stat. 1  |     |
|  | th sides Cambridge road  | Misc. charges, large taps 78.21  |     |
| acr  | oss Lincoln and one extension  | And the second s |     |
| S  | W. corner, 2 extensions N. E.  | Total\$51,399.37   |     |
| cor  | ner and 2 extensions S. E. cor-  | RECAPITULATION—  |     |
| nei  | Cambridge road and Lincoln;  | Water rates flat,\$10,580.71   |     |
| rep  | airs crosswalk and extension   | Water rates, meter 5,185.31  |     |
|  | ey north side Cambridge road   |  |     |
| we   | st of Lincoln; raising cross-  |  |     |
|  | lk across Mack road east side  | Making taps 1,244.96   |     |
|  | lmot and raising gutter Mack   | Meter rentals 5.10   |     |
|  | d from Wilmot south; exten-  | Turning water off and on 14.75   |     |
|  | n S. W. corner Geddes and  | Bills payable 1,690.93   |     |
| W:   | alnut ; crosswalk, extension   | Mis. revenue, large taps 78.21   |     |
|  | 1 (  | mis. icveniuc, raise taps  | (1) |
| and  | 1 2 gutter boxes across 14th   |  |     |
| and<br>sou   | ith side Belser; cement culvert  | Cash on hand Aug. 1, 1915. 557.18  |     |
| and<br>Sou<br>act  | oth side Belser; cement culvert<br>coss Belser east side 14th;   |  |     |
| and<br>sou<br>act  | oth side Belser; cement culvert<br>coss Belser east side 14th;<br>csswalk and extension across   | Cash on hand Aug. 1, 1915. 557.18<br>Cash Dep. City Treas 31,691.68  | -   |
| and<br>sou<br>act<br>cro<br>Ke   | oth side Belser; cement culvert<br>coss Belser east side 14th;<br>csswalk and extension across<br>llog west side Pontiac street.)  | Cash on hand Aug. 1, 1915. 557.18 Cash Dep. City Treas 31,691.68 Total   | -   |
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| and<br>sot<br>act<br>cro<br>Ke<br>Grad<br>and<br>Grav<br>fill<br>(O<br>Grad<br>fill  | ath side Belser; cement culvert coss Belser east side 14th; cosswalk and extension across llog west side Pontiac street.) ing intersect. Cambridge road I Lincoln, labor   | Cash on hand Aug. 1, 1915. 557.18 Cash Dep. City Treas 31,691.68  Total  |     |
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| Expense general            | 1,191.58  |
|----------------------------|-----------|
| Expense, construction      | 4,230.70  |
| Expense, service taps      | 814.76    |
| Expense, construction No.  |           |
| 1                          | 2,813.76  |
| Expense, construction No.  |           |
| 2                          | 2.94      |
| Expense, repair mains      | 24.25     |
| Expense, repair house con- |           |
| nections                   | 38.25     |
| Expense, repair Sta1       | 14.82     |
| Expense, repair Stat. 2    | 13.50     |
| Refunds and transfers when | 20.00     |
| paid in advance            | 334.89    |
| Meter per cent setting and | 001.00    |
| cost of                    | 35.70     |
|                            |           |
| Insurance                  | 46.00     |
| Interest paid on bonds     | 8,720 00  |
| Power Stat. 1              | 299.50    |
| Misc. charges, large taps  | 78.21     |
|                            |           |
| Total\$                    | 51,399.37 |
| RECAPITULATION—            |           |
| Water rates flat,\$        | 10,580.71 |
| Water rates, meter         | 5,185.31  |
| Water rates, mason         | 350.54    |
|                            |           |

Review, in pursuance to its order and liam sts., 44 ft. frontage.....\$24.20 appointment for that purpose met at the Council Chamber on Monday, No- feet of the east half of the old jail vember 15th, 1915, at 7 o'clock p. m., and due proof of publication of the notice of the meeting filed. The roll call of the aldermen being called and a quorum being present as follows: Fiegel, Hanselmann, A. Ald. Lutz. Koernke, Heck, Markey, Flynn, Sherk, Manwaring, McGregor, Freeman, G. Lutz, Sink, Pres. Wurster, 14.

The certificate of the Board of Public Works being presented the Council entered upon the consideration of

same.

Ann Arbor, Mich., Oct. 18, 1915. To the Common Council from Board of Public Works: Gentlemen —We submit to your honorable body the report of all sidewalks built by this board, and charged to the property owners, as per your order. amount placed after each description being the actual cost of the walk with ten per cent added, this being the amount which is a lien upon the property as per section 13 of an ordinance relative to sidewalks.

Sidewalks built by city, cost same and ten per cent added to be assessed against the property along which said walks have been con-

structed.

## Tar Walks.

Property of:

Dorothy R. Hella, east side of Baldwin ave. between Wells st. and Cambridge road, 50 ft front.....\$16.66

Estate of J. Kajuska, south side of Madison st. between 5th sts, 218 ft. 11 1-2 inches frontage, ...... \$72.98

Farmers' & Mechanics' Bank, south side of Madison st. between 5th and 7th sts, 132 ft. frontage.....\$44.00 (Beginning 515 east side of Madison street, west to 7th st.)

J. H. Thompson, north side of Hill st. between 4th and 5th aves., 66 ft.

frontage .....\$22.00 Estate of F. L. Parker, north side of Hill st. between 4th and 5th aves., 46 ft. 6 inches frontage.....\$15.49

Harold P. and Charlott Breitenbach. west side of Cambridge road between Hill st. and Washtenaw ave., 198 ft. from tage ......\$66.00

F. I. Cornwell, east side of Olivia ave. between Minerva road and Cambridge road, 43.32 ft frontage.. \$14.44

Cement Walks.

Elizabeth R. Wehnes, west side of Fifth ave. between Liberty and Wil-

(The south 44 feet of the north 132 square, B. 3 S., R. 5 E.)

Emily B. Moore, west side of Fifth ave. between Liberty and William sts., 44 ft. frontage.....\$24.20

(The south 44 feet of the north 88 feet of the east one-half of the old jail square, B. 3 S., R. 5 E.)

J. G. Pray, 1 rth side of Minerva road between Forest and Olivia aves., 40 ft. frontage.....\$22.00 (Lot 32 Wood & Brooks' sub-div.)

Mary E. Russell, north side of Huron st. between Glen ave. and 14th st, 85 ft 11 in frontage.....\$47.25

Davidson & Wainwright, south side of Kingsley st., between Division and

Detroit sts., 132 ft. frontage....\$72.60 Siegfried Rosenthaler, west side of State st. between Liberty and William sts., 22 ft frontage......\$64.74

Mary B. Warner, west side of State st. between Liberty and Williams sts.,

21.5 ft. frontage......\$38.67 Gottlob Cook, lot 36, west side of Crest ave. south of Washington st., 48.9 ft. frontage.....\$26.89

Alton D. Dewitt, west side of 14tn st., between Huron and Ann sts., 44 ft. frontage .....\$24.20

Annie R. Bennett, west side of 14th st. between Huron and Ann sts., 44 ft. frontage.....\$24.20

Mary E. Scully, west side of 14th st. between Huron and Ann sts., 44 ft. frontage .....\$24.20

Mary E. Scully, west side of 14th st. between Huron and Ann sts., 45.17 ft. frontage .....\$24.84

Mary E. Scully, north side of Huron st. between Glen ave. and 14th st., 90.14 ft. frontage .....\$49.57

I hereby certify that the foregoing is correct.

ROSS GRANGER,

Clerk.

By Ald. Sherk: Whereas, the certificate of the Board of Public Works for the construction at the expense of the building sidewalk fund of the several sidewalks therein mentioned having been duly certified to us, this day having been appointed and assigned for the purpose of reviewing the same, and all persons appearing having been heard, and the said certificate having been duly considered and the review thereof completed, therefore be it

Resolved, that the City Clerk is ordered to report the proceedings of the Board of Review on said certificate

to the Common Council at its next

regular meeting.

Resolved, further, that said special assessment be and the same is hereby fixed and determined as presented and amended by fixing Elizabeth R. Wehnes' assessment at \$12.10 in place of \$24.20.

Adopted as follows: Yeas, Ald. Fiegel, Hanselmann, A. Lutz, Koernke, Heck, Markey, Flynn, Sherk, Manwaring, McGregor, Freeman, G. Lutz, Sink, Pres. Wurster, 14. Nays, none.

The Board adjourned.

ROSS GRANGER, City Clerk.

(Council Action.)

By Ald. Koernke, Resolved, and it is hereby ordered that the several sums of money set down in the certificate of the Board of Public Works. relative to the construction of sidewalks at the expense of the building sidewalk fund, as amended, be and the same are hereby levied and assessed against the several parcels of land in the said certificate mentioned, each sum of money against the particular parcel of land as in the said certificate stated, and the City Assessor is hereby ordered and required to nake the said several assessments pursuant to law.

Resolved, further, that the City Clerk is hereby required to certify this order of assessment to the City Assessor pursuant to law.

Adopted as follows: Yeas, Ald. Fiegel, Hanselmann, A. Lutz, Koernke, Heck, Markey, Flynn, Sherk, Manwaring, McGregor, Freeman, G. Lutz, Sink, Pres. Wurster, 14. Nays, none.

## Resolutions.

By Ald. G. Lutz: Whereas, the City Treasurer of the City of Ann Arbor has sold to the Detroit Trust Company of the City of Detroit, Michigan, the following bonds at their par value; Five Thousand Nine Hundred Dollars worth of Park bonds, bearing interest at the rate of 4 1-2 per cent, and Fifteen Thousand Dollars worth of Fire Department bonds, bearing interest at the rate of 4 1-2 per cent, and

Whereas, we, the Common Council of the City of Ann Arbor, believe this sale is t'e best that can be made at

this time, therefore be it

Resolved, that the Common Council does hereby ratify and confirm the sale of the above mentioned bonds to the Detroit Trust Company at the par value thereof, so made by the City Treasurer.

Adopted as follows: Yeas, Ald. Fiegel, Hanselmann, A. Lutz, Koernke, Heck, Markey, Flynn, Sherk, Manwaring, McGregor, Freemen, G. Lutz, Sink, Pres. Wurster, 14. Nays, none.

By Ald. Fiegel: Resolved, that the matter of establishing building code for the City of Ann Arbor be referred to Ordinance committee. Adopted.

By Ald. Freeman: Resolved, that an arc light be substituted for the Tungsten light at the intersection of South Thayer st., and East Washington st.

Adopted by unanimous vote of those present, 14.

The Council adjourned.

ROSS GRANGER, Clerk.

## STEERE FARM PUMPING TEST

## Engineer's Complete Report on Operations and Results

November 11, 1915.

To the Honorable Common Council, Ann Arbor, Michigan:

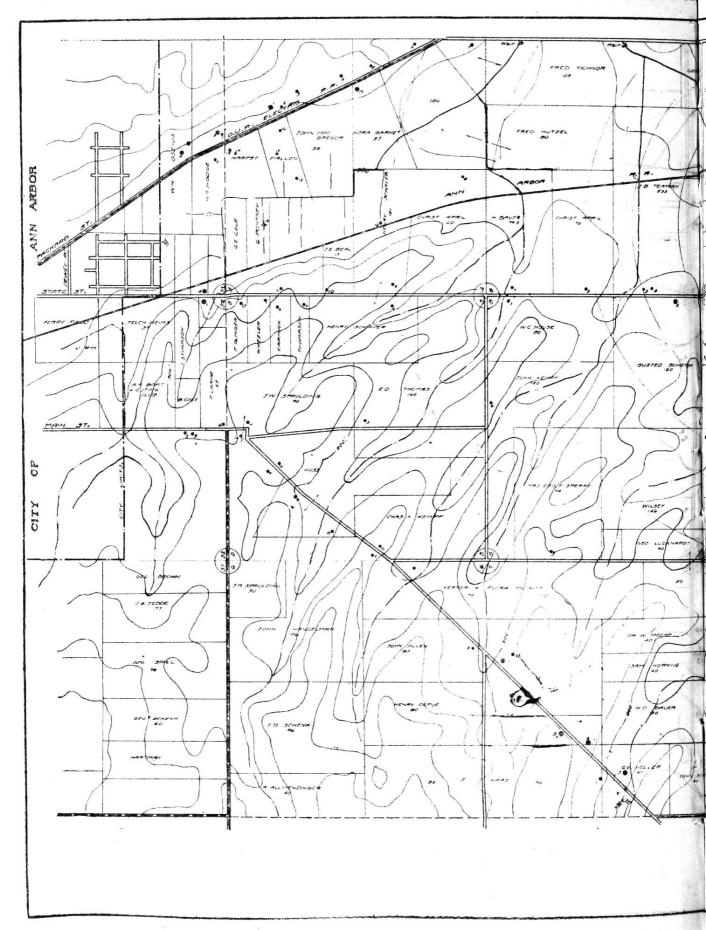
Sirs-I submit the following report of the work done at the Steere farm in accordance with your instruction of Feb. 1, 1915:

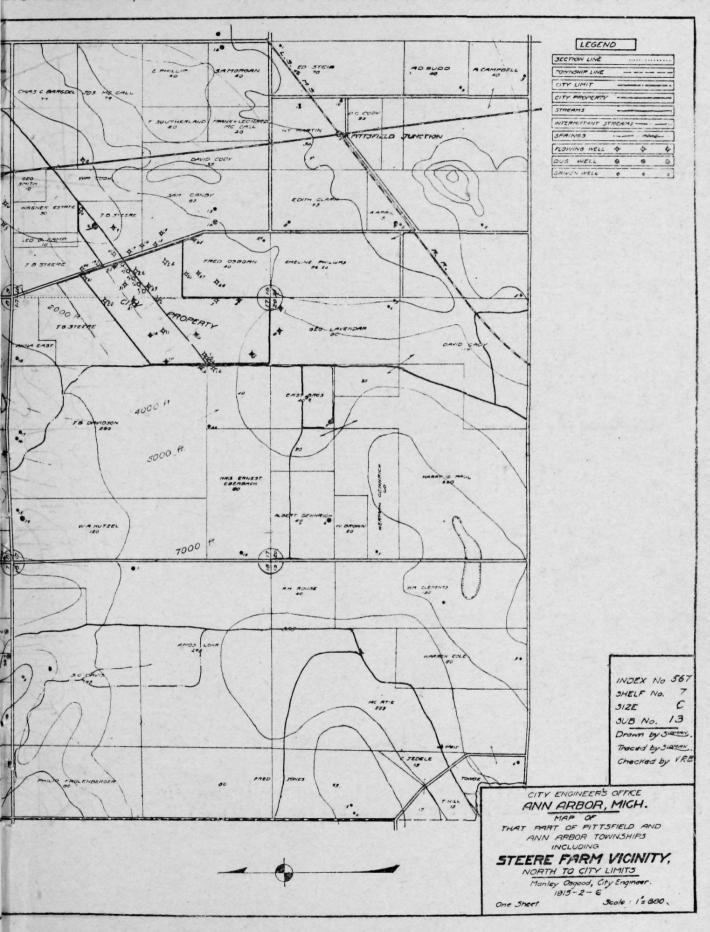
diameter was constructed at this lothree million and four million gallons per tweny-four hours continued flow. practically continuously, twenty-four hours per day, for a period of forty-

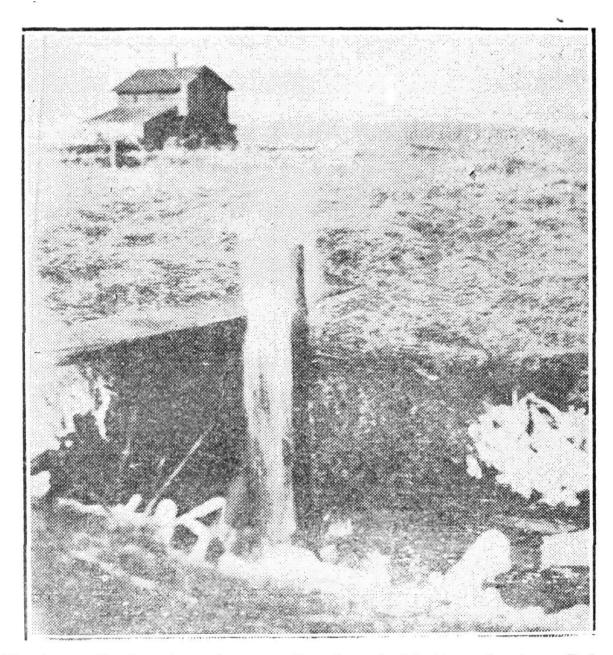
last forty days was from three million seven hundred thousand gallons to four million gallons per day. During the entire test, the elevation of the water in the sixteen-foot well was always the same when the water was being pumped out at any given rate.

This test was made under adverse A well of sixteen (16) feet inside conditions, due to the settling of the sixteen-foot well, and following seacation and pumping at a rate between sons that brought about the most unfavorable conditions of ground water

Wells on other parts of the city's property and on adjoining and neareight (48) days. The rate of pump- by farms were affected, due to this ing for the first eight of these forty- pumping of the large well, by a loweight days was between three mil- ering of the water lovel varying from lion gallons and three million four- nothing to about four and one-half hundred thousand gallons per day feet. Due to said pumping, however, while the rate of pumping for the the lowering of water in wells on







Flowing well after loosening gravel and sand at bottom of pipe loosening same, the water just trickled over the top of this pipe.

property not belonging to the city of same were affected by the pumping. Ann Arbor in no case exceeded two

All of the above is presented in defollowing, which is

> Very respectfully submitted, MANLEY OSGOOD, City Engineer.

> > Preliminary Work.

A map of the country south of the city of Ann Arbor, including some fourteen square miles with the Steere farm near the center, was prepared in my office and corrected by field ob-On this map were located all wells south of the city limits, the Packard street road and the South Main street or "Saline road"; to a distance one mile south of the southerly boundary of the city's property, two miles west of the westerly boundary of the city's property and one mile east of the South State street road which runs through the Steere The observations were extended further to the north and west of the Steere farm than to the south and east of same because from previous records and the United States Geological Survey maps the direction of ground water flow in this territory had been determined to be approximately from northwest to southeast. This map is Plate 1 accompanying this report.

A system of levels was very carefully extended over the territory in which these wells had been located and the elevation recorded of some point at each well from which measurements were made down, or up in the case of flowing wells, to the elevation at which water stood. Underground water acts exactly as does water on the surface of the earth inasmuch as if in a standing pool it is at all points at the same elevation and if moving or flowing between the gravel particles the water level is higher at any one point than at a second point further down the stream. The elevations of the water in various wells throughout the mapped were marked, on the map, and the underground water to southeast. sequent to the pumping test to see if be as follows:

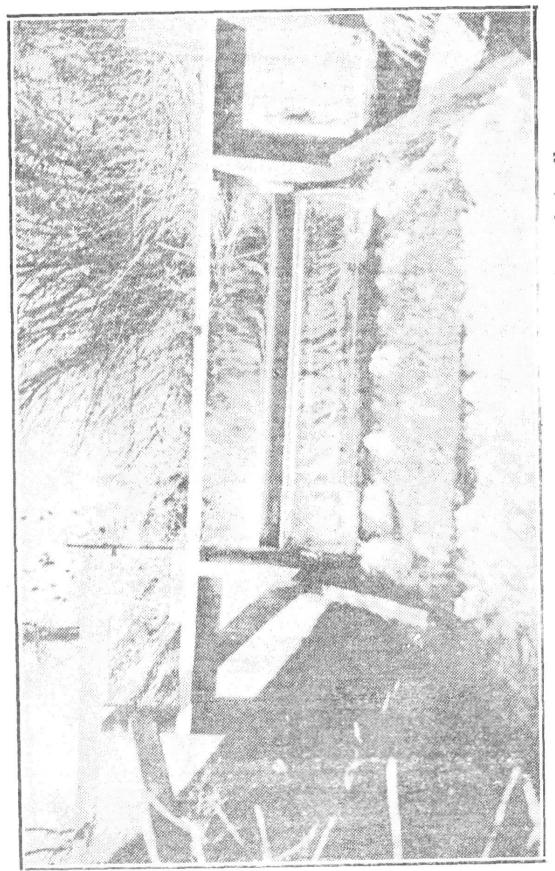
In the district of flowing wells, the discharge from a large number of wells was very materially increased, tail and more fully explained in the in some cases the increase in flow being several hundred percent, by cleaning the sand from the bottom of the pipes and loosening the gravel below same. This was done to insure the water rising to its static level rapidly enough to permit of correctly measuring the elevation same.

> With their source in this district of flowing wells, three small streams never go dry. In order that we might know the total amount of water thus discharged freely over the surface of the ground, measuring weirs were in stalled in each one of these three streams. At times when the ground was so frozen that there was no runoff from rain and snow and all water flowing in these streams or ditches could come only from underan ground source which furnished water above the freezing temperature, the discharge from these streams was measured and on only one occasion found to aggregate less than three million gallons per day. On that one occasion the aggregate discharge was two million three hundred thousand gallons per day.

## Construction and Pumping at 16-Foot Well.

The construction of the 16-foot well at the Steere farm was actively started on March 20th and proceeded without any incident of note until on May 13th, the day on which the last of the adhering clay had been removed from the inside of the well. About 1:00 p. m. it was noticed that some settlement of the well curb had begun and by 1:20 p. m. so rapid had been this settlement that on the northeast side it had lowered about 20 inches and on the southwest side it had lowered about 12 or 15 inches.

The well curb and sheeting settled a. a unit, seeming to sheer its way down through the supporting clay. district No visible slip of earth occurred until the next day. Pumping was startinto ed shortly before 6:30 p. m. and the which the city's wells are driven de- settlement increased agair, but slowed termined to be a broad stream of down as soon as the pumping was water actually flowing underground stopped. A couple of inches settlebetween the priticles of gravel and ment was observed during the next sand in a direction from northwest few days, but none took place after The elevations of water the pumping test was started, and in wells located in this district were on the third day of July the total setafterwards observed during and sub- tlement was measured and found to



Weir in ditch about one mile below discharge from sixteen-foot well.

| North | side |   |  |  |  |  |  |  |   |   | .3.17 | fort |
|-------|------|---|--|--|--|--|--|--|---|---|-------|------|
| South | side | ٠ |  |  |  |  |  |  | • | ٠ | .2.95 | feet |
| East  |      |   |  |  |  |  |  |  |   |   |       |      |
| West  |      |   |  |  |  |  |  |  |   |   |       |      |

clay upon which the curb rested is thought to be the cause of this accident. The water gravel was reached on the 9th and the time from the 9th to the 13th was spent in removing low so as to throw most of the load the alay which adhered to the short on the opening of the alay which adhered to the short on the opening of the alay which adhered to the short on the opening force of the alay at the clay which adhered to the sheet on the cohesive force of the clay at piling. On the east side at the point the surface of the cylinder envelopwhere the suction pipe was to be ing the outer edge of the curb and placed the gravel was dredged out the slip was the result. about a foot below the bottom of the sheeting, and from later measure- this method was considerable as may ments it appeared that the whole bot- be seen on inspection of the ditch tom had been lowered about four through which the water flowed from inches below the bottom of the sheet the well. The flume had to be freused precluded any possibility of pumping test because of the deposdredging to the exact grade which its from this source. had been established as at the bottom of the sheeting. Some of the before pumping was measured by a gravel from the outside probably ran weir in the ditch leading from the into the well and the clay, being expected to the western by breakers of the probably ran weir in the ditch leading from the probably ran well. The following table was compared to the western by breakers of the probably ran well. posed to the water by breakage of the puted from the gauge readings:

hard pan and by water getting up between the clay and the sheeting. became plastic and the weight above fed it down into the water rushing The unstable nature of the blue into the well. This clay came in a

The amount of clay removed by The size of the clam sheel quently cleaned during the first of the

### Discharge of 16-foot Well Before Pumping.

| Date.<br>4-26-15<br>4-27-15<br>4-28-15 | Discharge in gal.  per day  660,000  660,000  663,000 | Remarks. Water at elevation 818.6 in 16-foo well, the discharge from 12" pipafter section was removed. |  |  |  |  |
|--|---|--|--|--|--|--|
| 5-6-15<br>5-7-15<br>5-3-15             | 599,000<br>601,000<br>604,000                         | Water in well at 819.3. Discharge from 12" pipe.   |  |  |  |  |
| 5-9-15<br>5-10-15                      | $825,000 \\ 845,000$                                  | Water at elevation 819.0. Gravel reached.  |  |  |  |  |
| 5-16-15<br>5-18-15                     | 660,000<br>657,000                                    | Largely leakage from around well.  |  |  |  |  |

The pumping test was started at 10:30 a. m. on May 19th and continued until 4:30 p. m. on the 8th day of July. The pumping was continuous except for the stops listed below.

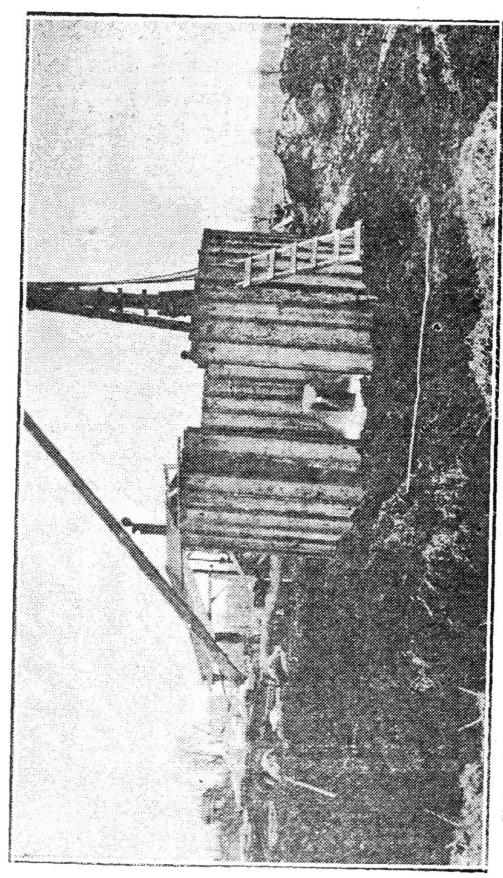
| Time | Lost | During | Pumping | Test. |
|------|------|--------|---------|-------|
|------|------|--------|---------|-------|

| Date.  | Duration.   | Reason for stop.                                 |
|--------|-------------|--|
| 5-19   | 0 h. 20 m.  | Pump lost priming.                               |
| 5-24   | 0 h. 20 m.  | Packing glands of pump.                          |
| 5-26   | 4 h. 43 m.  | Placing sauges in well and flume.                |
| 5 - 27 | 1 h. 30 m.  | Setting guage and grinding valves.               |
| 6 - 9  | 4 h. 45 m.  | Cooling water pump on engine broke. Had to go to |
| 6-10   | 17 h. 45 m. | Monroe for new parts.                            |
| 6-16   | 7 h. 00 m.  | Putting on new cooling water case and grinding   |
|        |             | valves on engine.                                |

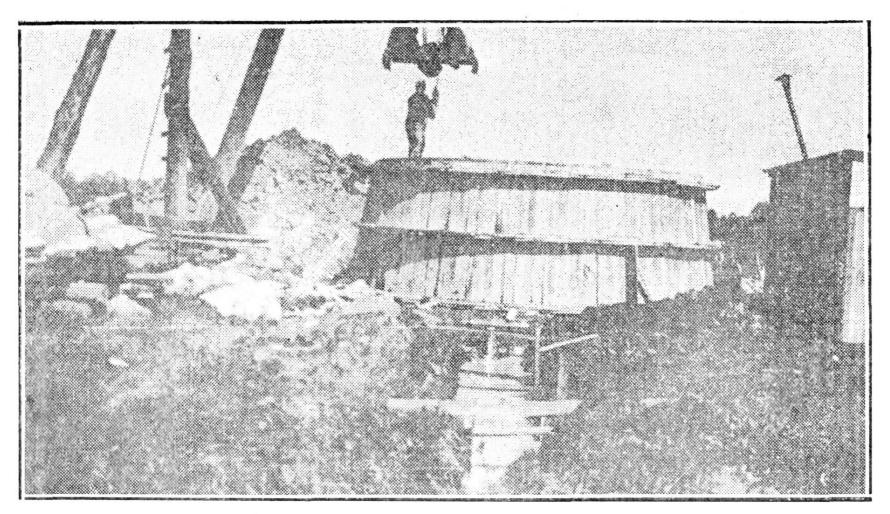
8 h. 30 m. Overhauling magneto on engine.

The total number of hours lost in the run of 1,206 hours was 44 hours and 53 minutes, or 3.72 percent of the time of the entire test.

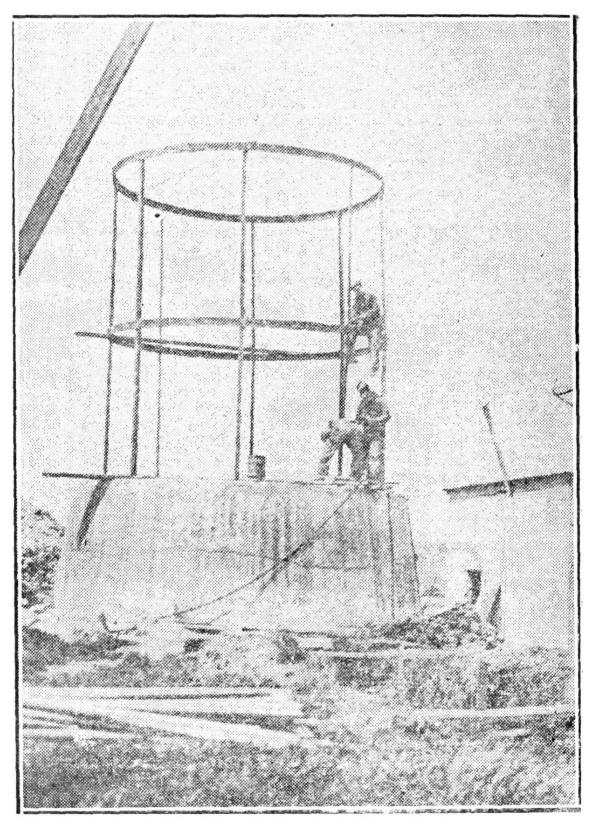
The daily discharges together with the level of the water in the well throughout the pumping are given in the following table:



Sixteen-foot well under construction. Steel sheet piling all driven and ready for concrete casing.

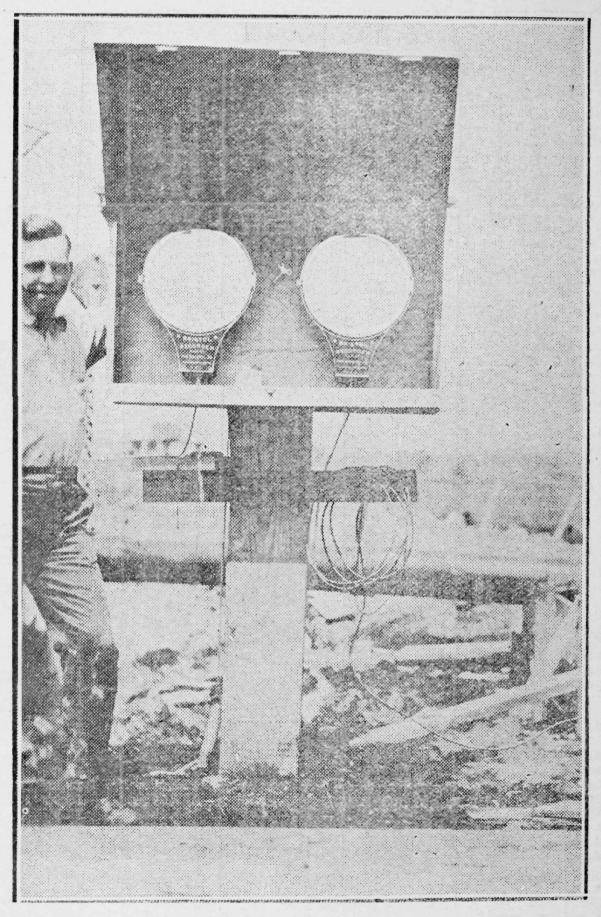


Sixteen foot well under construction. Excavating clay from inside of well casing.. Concrete in place but forms not yet removed.



Sixteen-foot well under construction. Shows completed concrete ring and installation of angle iron bracing on inside of casing.

| 7 - 7 - 6  | 0.000000000000000000000000000000000000  |  | Date.  |
|--|---|--|--|
| P 1 P P P P P P P P P P P P P P P P P P                      | 1 8 6 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | 1000000000000000000000000000000000000  | Time of  |
| 800000   |   | 000000000000000000000000000000000000000  | Epumping.  |
| 738,000<br>2,051,200<br>738,000<br>1,769,000<br>1,394,600    | 23,7842,2000<br>23,7842,2000<br>23,7842,2000<br>23,786,350<br>23,7944,7900<br>23,789,4900<br>23,789,4900<br>23,789,4900<br>23,789,400<br>23,789,400<br>23,749,200<br>23,749,200<br>23,749,200<br>23,749,200 | 1,5000000000000000000000000000000000000  | Actual amount pumped gallons.  |
| 0000000  | 2482100000000000000000000000000000000000  | 00000000000000000000000000000000000000   | Rate in gal. per day.  |
| 124,500<br>120,300<br>105,300<br>104,100<br>83,500<br>84,500 | 157,000<br>157,800<br>157,800<br>157,000<br>157,000<br>157,000<br>157,600<br>158,100<br>158,400   | 1123<br>123<br>123<br>123<br>123<br>123<br>123<br>123<br>123<br>123  | Average rate in gallons per hour.                                    |
| ∞ 0 4 01 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                     |   | gauge not insalled insalled 16.1; 16.9; 19.0; 19 | Depth of water in well below average ground level about 16-ft. well. |



Shows two Bristol Recording Water Level Gauges installed at 16-foot well; one to record elevation of water in well and one to record depth of water over measuring weir.

curately measuring the depth of wa- the well. This was clearly shown by ter over the weir, three automatic re- continual leakage into the well becording gauges were installed; two tween sections of the sheet piling at Bristol recording water level gauges, distances ten feet above the level of and one Stevens float gauge. One the water inside the well. Bristol gauge with a range from 0 to ference of water level inside and out-20 feet was used to record the ele-side the well casing was caused by vation of water in the 16-foot well drawing so large a volume of water and one with a range from 0 to 12 through the gravel in the restricted inches was placed to record the fluc- area underneath the sheet piling. The tuation of water level over the meas-uring weir. The Stevens water level to 3.6 feet left a cylindrical area, be-recorder was used to give a continu-ous record of the fluctuations of the the hardpan underneath the water water surface in the second eight-gravel, sixteen feet in diameter and inch well, west of the State street cally from 3.4 to 4.4 feet high. road. Charts from all of these gauges tween the gravel particles in this reare on file in my office.

the pumping rates and height of wa- well. ter in the well and a capacity curve to drawing so great an amount of wataken from the record of the last ter through so small an area caused ing the water level in the well was not and outside the well casing. available before this date. It will be noticed from the curve of pumping nite amount of water was produced deviation from this line. in the well. When pumping was stopped the 4,150,000 gallons per day. of June clay was banked up on the the ground level. outside of the well to shut off the leakage after pumping should stopped. This accounts for the de- the well passed this point. crease in both water height pumping rate shown for the next few The well up to this time had shown very little variation of water level for the same amount of pumpage, a rate of 3,791,500 gallons per day on the 2d of June drawing the water in the well 18.9 feet below the ground and a rate of 3,795,000 gal- It has been observed by those who lons per day on the 27th of June are familiar with underground wadrawing the water in the well 19.0 ters that the rainfall during the year, feet below the ground.

el close on the outside of the well into three periods: the storage pe-

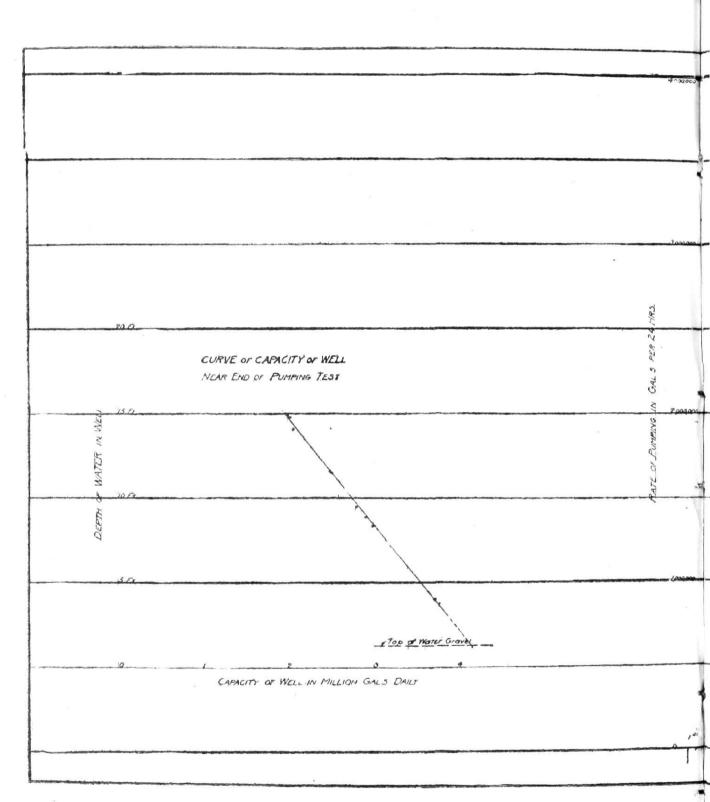
In addition to the usual hand op-casing was approximately ten feet erated hook gauge installed for ac-above the level of the water inside stricted area it was necessary to draw Plate II gives a graphic record of all of the water pumped from the The large amount of resistance week of pumping. The gauge record- the difference in water level inside installed until the 26th of May so pacity curve shown on Plate II shows there was no record of water level the height of the water inside the well casing for given pumping rates. This curve is, within the limits platted, a rates that any increase in pumping straight line, and it seems reasonable rate causes a decrease of the depth to assume that for a short distance of water in the well. That is, a defi- farther along the curve there is no Producing for a definite height of water surface the line to the elevation of the top The exceptions noted of the water gravel we see that the were caused by a cessation of pump- well would at that elevation produce water level in the well and also in 4,000,000 gallons per day the water the water gravel would raise and level inside the well would be drawn some time was required to once more down to about 2.25 feet above the gain a stable condition. On the 29th water gravel or about 21.1 feet below

The weir formerly placed in the ditch be into which the pump was discharg-While doing this a large ed was about one mile down the bucketfull (approximately one cubic stream from the sixteen-foot well. yard, or a layer nearly two inches Measurements taken at this weir durdeep over the entire bottom of the ing the pumping showed conclusively well) was accidentally dropped into that all of the water pumped from

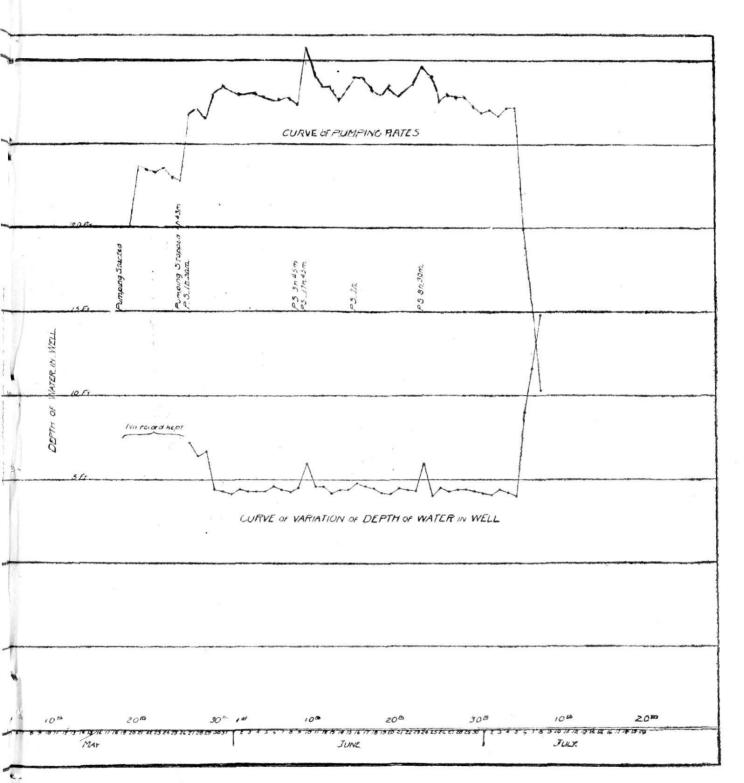
#### and Effect of Pumping on Surrounding Wells.

Before taking up the important question of the effect of the pumping on the wells near the Steere farm, the effect of the seasonal fluctuations and rainfall on the groundwater level must be considered.

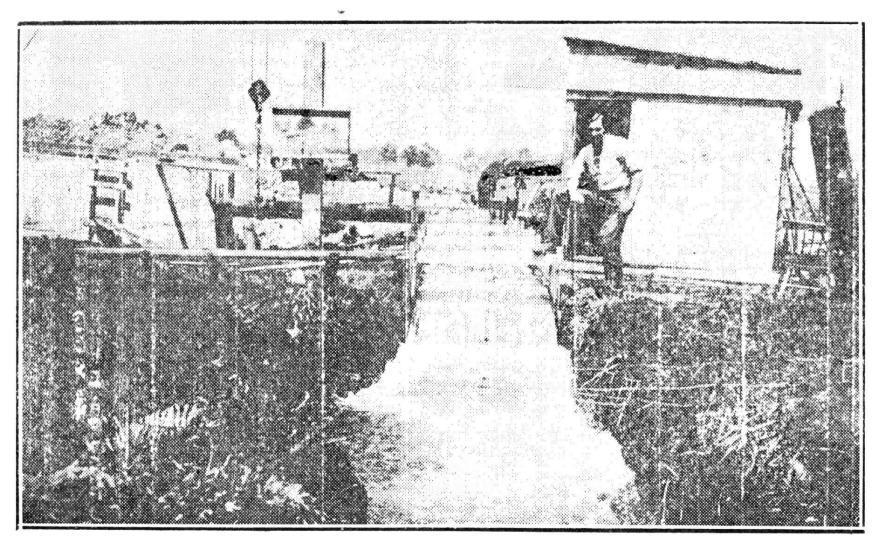
in relation to its effect on the under-During the pumping, the water lev- ground water level, should be divided



Depth of water in well over bottom of well plotted above respective rate of pumping. Scale of depth given at left.



Pumping rates and depth of water IN WELL over bottom of well plotted above respective dates. Scales of pumping rates and depth given at left.



Pumping Test. Shows well after settlement, arrangement of pump and me asuring apparatus, and discharge over four foot measuring weir.

cember, January, February, March, percentage of evaporation. May; the period June, July and and the replenishing period, Septem- water during the ber, Oc.ober, and November. This diyear begin in December and end in es if they can get it. November.

and melted snow go to increase the ground water, depleted by the deses off as runoff in stream flow. There also decreased. is little evaporation during this period.

period gives very little to the ground- each of the above named periods from water owing to the big demand of the the year 1900 to date:

riod, comprising the months of De- growing crops and grass and the high growing been found that grain crops will con-August; sume from ten to fiften inches of growing while grasses during the entire seavision of the year makes the water son will consume thirty or forty inch-

The replenishing period, as its name During the stroage period the rain indicates, is the time during which the amount of underground water during mands of the summer growing seathe time the ground is not frozen. son, is replenished by the fall rains. When the ground is frozen the snow The growing things demand relativeis either held on the surface or pas- ly little now and the evaporation has

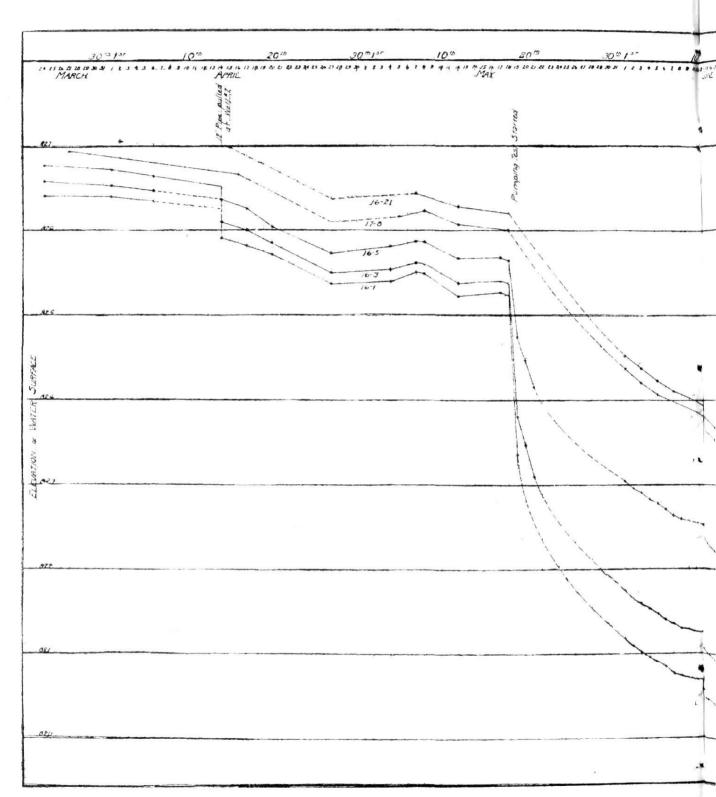
The following table gives the rain-The rainfall during the growing fall in Ann Arbor in inches during

| Rainfa                          | dl Rec | ords Fo | or Ann       | Arbor. |       |       |       |
|---------------------------------|--------|---------|--------------|--------|-------|-------|-------|
| Period1900                      | 1901   | 1902    | <b>1</b> 903 | 1904   | 1905  | 1906  | 1907  |
| Storage                         | 9.19   | 13.04   | 15.43        | 16.59  | 13.89 | 13.65 | 15.06 |
| Growing 7.25                    | 8.50   | 18.89   | 15.23        | 7.50   | 13.00 | 11.04 | 6.63  |
| Replen hing 7.06                | 5.78   | 10.19   | 5.38         | 4.82   | 9.63  | 6.26  | 8.30  |
| Period1908                      | 1909   | 1910    | 1911         | 1912   | 1913  | 1914  | 1915  |
| Storage                         | 13.89  | 13.25   | 11.21        | 13.60  | 17.83 | 15.22 | 7.98  |
| Growing11.18                    | 7.74   | 6.24    | 6.78         | 7.86   | 2.57  | 9.00  | 11.84 |
| Replenishing 2.78 *Five months. | 6.63   | 7.15    | 11.99        | 8.40   | 6.23  | 6.02  |       |

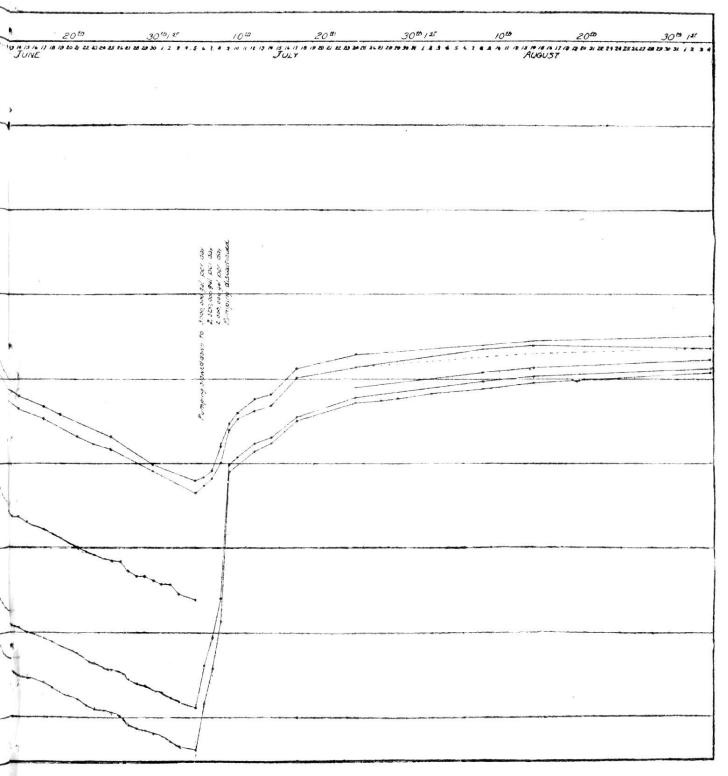
It will be seen from this table that the rainfall for the storage period of 1915 is by far the lowest since 1900 at least; the records were searched back no farther. The replenishing period of 1914 was also lower than it has been since 1908 although not so noticeably low as the rainfall for the storage period. For the sixteen years given, the 9.19 inches of rainfall in 1901 is the nearest approach to the 7.98 inches for 1915 in the storage During March and April at period. the time in which percolation would naturally be the highest the rainfall was especially low. This dry replenishing and exceptionally dry storage period would lead us to expect a low ground water level at the time the pumping test was made. While the rainfall during the growing season was above the average, it was not more than would be entirely consumed by the growing crops, which were unusually fine. After these crops were harvested, the rainfall again percolated into the ground, but this was after the close of the test. Instead of carrying on the test under the most favorable conditions, a decidedly unfavorable time was chosen.

From close observation of the wells in the vicinity of the Steere farm, it was quite evident that none of them were directly or immediately affected by the local rains. In no case, following even the hardest rains of the peried of this work, was any rapid raise in the standing water elevation in these wells shown. This absence of effect from local rains is due to the fact that the rain which feeds this underground stream falls upon and percolates through a very large ground surface area which extends to a considerable distance from the location of these wells. The water discharged at this location has been underground for a considerable period of time, probably several months, before reaching the Steere farm vicinity.

Plates III and IV nave been prepared to show the varying elevation of the water in the several wells throughout the period of this test. Under the respective dates given at the top of each sheet the elevation of the water in each of the wells shown has been marked with a small circle, the scale of elevation being given to the left of the plotting. These elevations



Elevations of water level (above mean sea level) of several flowing wells and elevations were taken. Successive elevations are connected by straight lines.



and in the vicinity of "Steere Farm" are plotted under respective dates on which

better show the character of the variations in water level. Plate III represents flowing wells near to the sixteen-foot well and plate IV represents several of those wells on higher ground from which water must always be pumped. By referring to Plate I, these wells may be located and the difference in their listance from the sixteen-foot well noted. Referring to Plate III first, it will be seen that the lines connecting the successive elevations of the several wells are, for the greater part of their length, parallel. This is true prior to the beginning of the pumping at the sixteen-foot well; for the period from June 1st to July 5th during the pumping; and for the entire period plotted since July 17th. This parallelism shows that during these periods the wells were affected only by the general variation of ground water level; a variation which affected all wells located in the same formation in equal amounts, regardless of the elevation of standing water at that point or of their distances from the well being pumped. During the time from May 19th to June 1st the pumping at the sixteen foot well was drawing down the level of the material as well as all payments to water in these wells, the varying effect on the different wells being shown by the fact that the lines are not parallel. After June 1st, the pumping had no further these elevations, which, as shown by \$471.13. As these monthly salaries the parallellism of their lines, varied have always been paid from the Cononly with the general variation in tingent Fund, the amount charged water level over the entire territory, against the Steere Farm The same is true at the expiration of \$8,118.26.

have been joined by straight lines to the pumping, i. e., after July 17th, better show the character of the the parallel lines show that these wells are again governed only by the general variation in ground water level.

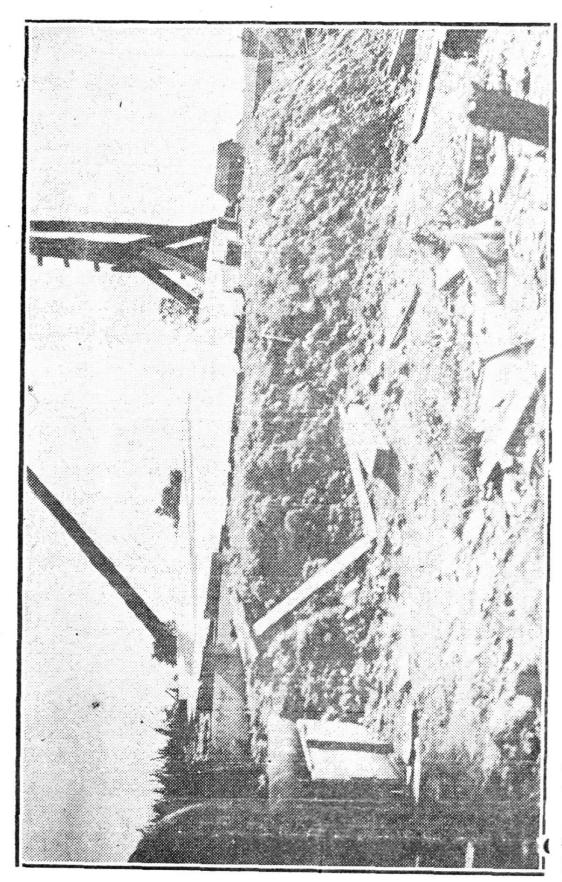
> After noting the effect on the wells represented on Plate III at the time of starting and discontinuing pumping, it is evident that of those wells represented on Plate IV only the wells of Gustave Schenk and John F. Lawrence were affected n any amount by the pumping at the sixteen-foot well. The lowering of the water level in these two wells due to this pumping test did not exceed sixteen inches. This is determined by drawing a line through the plotted elevation under July 17th parallel to the slope of lines prior to discontinuing the pumping and reading the difference of elevation between the plotted and parallel lines.

#### Costs.

The costs of the work were distributed as follows: Construction of 16-foot well. \$4,947.57 Pumping 16-foot well ..... 3,641.82

Total ..... \$8,589.39

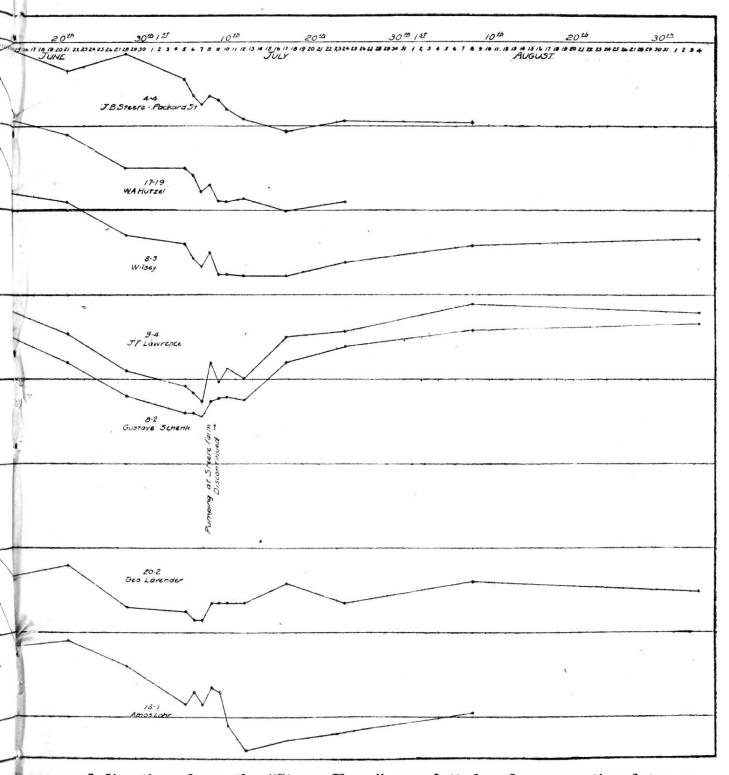
This includes all cost for labor and contractor. It includes all that part of my own time and of others working properly for a monthly salary chargeable to this fund. The amount affect on of monthly salaries so included is has been



Well as it was left upon completion of test. Clay banked around concrete and well roofed over with plank.

|                  | 187 11 |
|------------------|--------|
|                  | 927    |
|                  | 224    |
|                  |        |
| 33               | 924    |
| W OF WATER SURTH |        |
| ELENTRO          | 921    |
| , 1              |        |
|                  |        |
|                  | 227    |

Elevations of water level (above mean sea level) of several wells at varying which elevations were taken. Successive elevations are connected by straight line



ances and directions from the "Steere Farm" are plotted under respective dates on



Council Chamber, Ann Arbor, Mich., ceived and referred to City Attorney. Dec. 6, 1915. Regular session.

Meeting called to order by the President. Present, Ald. Heusel, Fiegel, Hanselmann, A. Lutz, Koernke, Heck, Markey, Flynn, Sherk, Manwaring. McGregor, Freeman, G. Lutz, Sink, President Wurster, 15. Absent, none

President Wurster remarked on the death of Mayor Charles A. Sauer, and appointed a committee composed of Ald. Charles Sink and Ald. Samuel Heusel to draw up proper resolutions and present same to Council at next meeting.

#### Communications.

Ann Arbor, Mich., 11-26-15. Mr. Ross Granger, City: Dear Mr. Granger—I enclose you the verdict which was rendered in the J. B. Draper case, and would ask you to present it to the Council at the next meeting.

Sincerely yours, Sam Burchfield, Cor-

verdict brought in the J. B. Draper

inquest held Nov. 24, 1915:

That J. B. Draper came to his death on or about 5:30 on the afternoon of Nov. 13, 1915, by being struck by a city car (electric) with Motorman Alfred Augustus in charge, whom we entirely exonerate from all blame.

We also find that this part of North University avenue is poorly lighted, and would recommend that if airbrakes make traffic safer that the city enforce their ordinance which calls for same.

Jurors: Frank J. Ryan, Henry B. Dodsley, Wm. L. Dawson, D. Benham, Frank J. Ryan, Henry B. Sam Hammial, Arthur Marsh.

Received and referred to the Ordinance and Lighting Committees.

Dec. 6th, 1915.

Mr. Ross Granger, City Clerk, Ann Arbor, Michigan: Dear Sir-Mr. B. F. Weadock, attorney for the Detroit, Jackson & Chicago Railway, requested me, this afternoon, to ask the Railway Committee to grant the company a hearing on the ordinance relative to air-brakes.

I trust that the committee will grant the hearing.

Very respectfully, M. J. Cavanaugh. Received and referred to the Ordinance Committee.

#### Petitions.

Of Harriet Kelsey Fay, asking that Council investigate her claim for in-Juries said to have been received while walking on sidewalk along the south side of Monroe street, between South Ingalls and Thayer streets. Re-

Of Geo. P. Whaley et al., asking

that a sidewalk be constructed on south side of Moseley street, between Second and Third streets. Received and referred to Sidewalk Committee.

Of Ann Arbor Machine Co., asking the Council to grant them permission 10 construct a side-track from present track about 170 feet further toward the east over and upon Canal street, running along north side of plant. Received and referred Street Committee.

Of John McGregor et al., remonstrating against the abolition of fire station No. 2 on East University ave-Received and referred to Fire Committee.

Ann Arbor, Mich., Nov. 23, 1915.

To the Honorable Common Coun-The undersigned respectfully remonstrate against the abolition of fire station No. 2, on East University avenue, until provision is made for its replacement by another station in the same general locality, and leaving of the territory south and east of the campus without proper fire protection.

They call attention to the fact that besides the business interests involved this section of the city contains a very large number of residences, and pays taxes largely in excess of other residence portions of the city. that when the fire apparatus from station No. 1 is engaged in the west or north part of the city the south and east portion will be absolutely without fire protection.

Also, that the resolution adopted

by your honorable body on July 19. 1915, provided in the preamble for repair of "fire stations," and it was generally understood by the voters at the special election that the repair of fire station No. 2 was to be taken care of under the bond issue voted.

The undersigned therefore respectfully petition that action be taken to retain fire station No. 2, with hose wagon or motor wagon equipment.

Name. Address. John McGregor, 551 East University. C. I. Kidd, 1112 S. University ave. Dr. Arthur W. Schurz, 1425 bridge road.

Marcus L. Ward, 703 E. University. D. M. Thompson, 539 E. University ave.

E. J. Lohr, 1107 S. University ave. H. W. Clark, 1109 S. University. H. T. Cooch, 1610 Geddes ave. Frank Leverett, 1724 S. University ave.

|   |   | d—DECEMBER 0, 1919.  |   |
|---|---|--|---|
| ' C Schloode '  | 1111 C Tiniwardity ava  | Thomas Shamp, salary   | 35.00   |
|   | 1111 S. University ave.   |  | 35.00   |
| W. F. Vernor, 9   |   |  | 35.00   |
| H. J. Richard, 5  |   |  | 35.00   |
| L. A. Wikel, 11   | 23 S. University ave.   |  | 30.00   |
| W. B. Hinsdale  | , 716 Forest.   |  | 30.00   |
|   | 545 E. University ave.  |  | 30.00   |
| Geo. Blaich, 60   |   |  | 30.00   |
| J. D. Ramsay,   |   | Theodore Higgens, salary   | 30.00   |
| Wm. Condon, 92  |   | Mat. Heininger   | 7.00  |
|   |   | Chas. Carroll, salary  | 23.00   |
| Ed. I. Taylor, 5  |   |  | 23.00   |
|   | 805 Oxford road.  | Clyde Carpenter, salary  | 25.66   |
| W. L. Miggett,  |   |  | •   |
| Emil Lorch, 718   | Church ave.   | Total salaries for ½ month of  |   |
| E. C. Burrell, 1  | 315 Forest court.   | November   | 82.16   |
|   | 09 S. University.   | Police Fund  |   |
|   | 1341 Geddes ave.  | Frank Pardon, salary\$   | 41.66   |
| Arthur Brown,   |   |  | 10.00   |
|   |   |  | 35.00   |
|   | ton, 611 Church st.   |  | 35.00   |
| Norman A. Woo   | od, 1216 S. University  | [  | 35.00   |
| ave.  |   |  | 35.U  |
| L. D. Wines, 12   | 08 Hill st.   |  | 35.00   |
|   |   |  | 35.00   |
| Alfred H. White   | ey, 1118 S. University.<br>e, 715 Church st.  |  | 32.50   |
| i R Trojanows   | ki, 1110 S. University  |  | 32.50   |
|   | Ki, 1110 B. University  | Marlena Howard, salary   | 32.50   |
| ave.  | 290 T II:   | Total cale of far 1/ month of  | -   |
|   | 329 E. University ave.  | Total sala es for ½ month of   | 90 16   |
|   | 09 East University.   | November\$3  | 03.10   |
| Reuben Peterson   | n, 610-620 Forest ave.,   | Pcor Fund  |   |
| 621 Church, I   | 416 Hill st.  | J. H. Shadford, salary\$   | 35.00   |
|   | er, 1306 Wells st.  | Cemetery Fund  | 0 00  |
|   | er, 1824 Norway road.   | Matthias Luippold, salary\$  | 00.00   |
|   | 1547 Washtenaw ave.   | Park Fund  | 25 00   |
|   |   | Ray E. Bassett, salary\$1  | 25.00   |
| E. G. Hoag, 930   |   | Water Works Fund   | 50.00   |
| C. G. Darling, 7  |   | Geo. S. Vandawarker, salary\$15  | 50.00   |
| A. J. Sawyer, 5   |   | R. Spokes, salary 13   | 30.00   |
| H. E. Riggs, 13   | 19 Cambridge road.  |  | 5.00  |
| Fred T. Stowe,  | Wash. ave.  | A. W. Cochran, salary  | 20.00   |
| Commi   | ttee Reports.   | accorde Lamin, mana, according to the contract of the contract | 20.00   |
|   | CE REPORT   | Wirt Cornwell, salary  | 20.00   |
|   | ry and clerk hire,\$166.66  |  |   |
| Geo. W. Sweet,  |   | Total salaries for month of  |   |
|   |   | November\$3  | 95.00   |
| Herbert W. Cripi  | oen, salary 125.00  | Engineer Department  |   |
|   | alary 150.00  | R. A. Dodge, labor\$   | 22.95   |
| Alfred J. Paul, s   | alary 125.00  | Laurence Lenhardt, labor   | 49.00   |
| Frank B. DeVine,  | salary 83.33  | Tom O'Neill, labor   | 36.25   |
|   | OF 00   | Horace H. Person, labor  |   |
| W. C. Russelt, sa   | ary 85.00   | 220.466 11. 20.000, 16.00.   | 57.75   |
| Julius Lohrke, s  | alary 80.00   | C. F. Seymour, labor   | 16.65   |
| Julius Lohrke, s<br>R. M. Caughey, sa   | alary   | C. F. Seymour, labor   | 16.65<br>63.00  |
| Julius Lohrke, s<br>R. M. Caughey, s<br>M E. Easterly,  | alary 80.00<br>alary 70.00<br>salary 55.00  | C. F. Seymour, labor   | 16.65   |
| Julius Lohrke, s<br>R. M. Caughey, s<br>M E. Easterly,<br>John A. Wessinge  | alary   | C. F. Seymour, labor C. W. Smedberg, labor F. E. Williams, labor   | 16.65<br>63.00<br>29.25   |
| Julius Lohrke, s R. M. Caughey, s M. E. Easterly, John A. Wessinge Fred Biggs, sala   | alary   | C. F. Seymour, labor C. W. Smedberg, labor F. E. Williams, labor  Total Engineer Department\$2   | 16.65<br>63.00<br>29.25   |
| Julius Lohrke, s R. M. Caughey, s M E. Easterly, John A. Wessinge Fred Biggs, sala Ura G Rickert, s   | alary       80.00         alary       70.00         salary       55.00         er, salary       50.00         ry       50.00         alary       50.00  | C. F. Seymour, labor C. W. Smedberg, labor F. E. Williams, labor  Total Engineer Department\$2  Board of Review  | 16.65<br>63.00<br>29.25<br>74.85  |
| Julius Lohrke, s R. M. Caughey, s M. E. Easterly, John A. Wessinge Fred Biggs, sala Ura G. Rickert, s Geo. F. Muehlig,  | alary       80.00         alary       70.00         salary       55.00         er, salary       50.00         ry       50.00         alary       50.00         salary       25.00   | C. F. Seymour, labor C. W. Smedberg, labor F. E. Williams, labor  Total Engineer Department\$2  Board of Review  Albert Fiegel, services\$   | 16.65<br>63.00<br>29.25<br>74.85  |
| Julius Lohrke, s R. M. Caughey, s M. E. Easterly, John A. Wessinge Fred Biggs, sala Ura G. Rickert, s Geo. F. Muehlig, M. C. Ryan, salar  | alary     80.00       alary     70.00       salary     55.00       er, salary     50.00       ry     50.00       alary     50.00       salary     25.00       ry     ½ month       30.00  | C. F. Seymour, labor C. W. Smedberg, labor F. E. Williams, labor  Total Engineer Department\$2  Board of Review  Albert Fiegel, services\$  Albert S. Lutz, services\$   | 16.65<br>63.00<br>29.25<br>74.85<br>5.00<br>5.00  |
| Julius Lohrke, s R. M. Caughey, s M. E. Easterly, John A. Wessinge Fred Biggs, sala Ura G. Rickert, s Geo. F. Muehlig, M. C. Ryan, salar  | alary       80.00         alary       70.00         salary       55.00         er, salary       50.00         ry       50.00         alary       50.00         salary       25.00   | C. F. Seymour, labor C. W. Smedberg, labor F. E. Williams, labor  Total Engineer Department\$2  Board of Review  Albert Fiegel, services  Thomas Hanselmann, services  | 16.65<br>63.00<br>29.25<br>74.85  |
| Julius Lohrke, s R. M. Caughey, s M. E. Easterly, John A. Wessinge Fred Biggs, sala Ura G. Rickert, s Geo. F. Muehlig, M. C. Ryan, salar Edward Besch, c  | alary     80.00       alary     70.00       salary     55.00       er, salary     50.00       ry     50.00       alary     50.00       salary     25.00       ry     ½ month     30.00       ollecting garbage,     400.00  | C. F. Seymour, labor. C. W. Smedberg, labor. F. E. Williams, labor.  Total Engineer Department. \$2  Board of Review  Albert Fiegel, services. \$  Albert S. Lutz, services.  Thomas Hanselmann, services.  Julius Koernke, services.  | 16.65<br>63.00<br>29.25<br>74.85<br>5.00<br>5.00<br>5.00                                      |
| Julius Lohrke, s R. M. Caughey, s M. E. Easterly, John A. Wessinge Fred Biggs, sala Ura G. Rickert, s Geo. F. Muehlig, M. C. Ryan, salar Edward Besch, c  | alary     80.00       alary     70.00       salary     55.00       er, salary     50.00       ry     50.00       alary     50.00       salary     25.00       ry     ½ month     30.00       ollecting garbage,     400.00       and     services     \$1,653.32  | C. F. Seymour, labor. C. W. Smedberg, labor. F. E. Williams, labor.  Total Engineer Department. \$2  Board of Review  Albert Fiegel, services. \$  Albert S. Lutz, services. \$  Thomas Hanselmann, services.  Julius Koernke, services.  Frank Heck, services.  | 16.65<br>63.00<br>29.25<br>74.85<br>5.00<br>5.00<br>5.00                                      |
| Julius Lohrke, s R. M. Caughey, s M. E. Easterly, John A. Wessinge Fred Biggs, sala Ura G Rickert, s Geo. F. Muehlig, M. C. Ryan, salar Edward Besch, c   | alary 80.00 alary 70.00 salary 55.00 er, salary 50.00 ery 50.00 alary 50.00 salary 50.00 salary 50.00 salary 25.00 ery ½ month 30.00 collecting garbage, 400.00 and services \$1,653.32 ere Fund  | C. F. Seymour, labor. C. W. Smedberg, labor. F. E. Williams, labor.  Total Engineer Department. \$2  Board of Review  Albert Fiegel, services. \$  Albert S. Lutz, services.  Thomas Hanselmann, services.  Julius Koernke, services.  | 16.65<br>63.00<br>29.25<br>74.85<br>5.00<br>5.00<br>5.00<br>5.00                              |
| Julius Lohrke, s R. M. Caughey, s M. E. Easterly, John A. Wessinge Fred Biggs, sala Ura G Rickert, s Geo. F. Muehlig, M. C. Ryan, salar Edward Besch, c Total salaries a Fi Chas, J. Andrews  | alary 80.00 alary 70.00 salary 55.00 er, salary 50.00 ry 50.00 alary 50.00 salary 50.00 y 50.00 y 1/2 month 30.00 ollecting garbage, 400.00 and services \$1,653.32 are Fund , salary \$50.00   | C. F. Seymour, labor. C. W. Smedberg, labor. F. E. Williams, labor.  Total Engineer Department. \$2  Board of Review  Albert Fiegel, services. \$ Albert S. Lutz, services. Thomas Hanselmann, services. Julius Koernke, services. Frank Heck, services. Wm. P. Flynn, services. John W. Markey, services. I. L. Sherk, services.  | 16.65<br>63.00<br>29.25<br>74.85<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5 |
| Julius Lohrke, s R. M. Caughey, s M. E. Easterly, John A. Wessinge Fred Biggs, sala Ura G Rickert, s Geo. F. Muehlig, M. C. Ryan, salar Edward Besch, c Total salaries a Fi Chas, J. Andrews Eugene Williams,   | alary 80.00 alary 70.00 salary 55.00 er, salary 50.00 er, salary 50.00 ery 50.00 salary 50.00 alary 50.00 salary 25.00 ery ½ month 30.00 collecting garbage, 400.00 end services \$1,653.32 ere Fund ery \$50.00  | C. F. Seymour, labor. C. W. Smedberg, labor. F. E. Williams, labor.  Total Engineer Department. \$2  Board of Review  Albert Fiegel, services. \$ Albert S. Lutz, services. Thomas Hanselmann, services. Julius Koernke, services. Frank Heck, services. Wm. P. Flynn, services. John W. Markey, services. I. L. Sherk, services. F. B. Manwaring, services.   | $\begin{array}{c} 16.65 \\ 63.00 \\ 29.25 \\ \hline 00000000000000000000000000000000000$      |
| Julius Lohrke, s R. M. Caughey, s M. E. Easterly, John A. Wessinge Fred Biggs, sala Ura G Rickert, s Geo. F. Muehlig, M. C. Ryan, salar Edward Besch, c Total salaries a Fi Chas, J. Andrews Eugene Williams,   | alary 80.00 alary 70.00 salary 55.00 er, salary 50.00 er, salary 50.00 alary 50.00 salary 50.00 y 50.00 salary 25.00 y ½ month 30.00 ollecting garbage, 400.00 and services \$1,653.32 ere Fund , salary \$50.00 salary \$50.00 salary \$8.50 salary 38.50 salary 38.50   | C. F. Seymour, labor. C. W. Smedberg, labor. F. E. Williams, labor.  Total Engineer Department. \$2  Board of Review  Albert Fiegel, services. Albert S. Lutz, services. Thomas Hanselmann, services. Julius Koernke, services. Frank Heck, services. Wm. P. Flynn, services. John W. Markey, services I. L. Sherk, services. F. B. Manwaring, services. John McGregor, services.  | $\begin{array}{c} 16.65 \\ 63.00 \\ 29.25 \\ \hline 00000000000000000000000000000000000$      |
| Julius Lohrke, s R. M. Caughey, s M. E. Easterly, John A. Wessinge Fred Biggs, sala Ura G Rickert, s Geo. F. Muehlig, M. C. Ryan, salar Edward Besch, c Total salaries a Fred Chas. J. Andrews Eugene Williams, Geo Hoelzle, sal Ralph Edwards, Henry McLaren,  | alary 80.00 alary 70.00 salary 55.00 er, salary 50.00 ry 50.00 alary 50.00 y 25.00 ry 25.00 ry 42 month 30.00 collecting garbage, 400.00 and services \$1,653.32 are Fund resalary 38.50 ary 38.50 salary 38.50 salary 38.50 salary 38.50 salary 38.50  | C. F. Seymour, labor. C. W. Smedberg, labor. F. E. Williams, labor.  Total Engineer Department. \$2  Board of Review  Albert Fiegel, services. \$  Albert S. Lutz, services. \$  Thomas Hanselmann, services. \$  Julius Koernke, services. \$  Frank Heck, services. \$  Wm. P. Flynn, services. \$  John W. Markey, services. \$  I. L. Sherk, services. \$  F. B. Manwaring, services. \$  John McGregor, services. \$  C. C. Freeman, services.  | $\begin{array}{c} 16.65 \\ 63.00 \\ 29.25 \\ \hline 00000000000000000000000000000000000$      |
| Julius Lohrke, s R. M. Caughey, s M. E. Easterly, John A. Wessinge Fred Biggs, sala Ura G Rickert, s Geo. F. Muehlig, M. C. Ryan, salar Edward Besch, c  Total salaries a Fred Chas, J. Andrews Eugene Williams, Geo Hoelzle, sal Ralph Edwards, Henry McLaren, Jacob Gwinner, s  | alary 80.00 alary 70.00 salary 55.00 er, salary 50.00 ry 50.00 alary 50.00 salary 25.00 ry ½ month 30.00 collecting garbage, 400.00 and services \$1,653.32 are Fund salary 38.50 ary 38.50 salary 38.50 salary 38.50 salary 38.50 salary 36.50 salary 36.50  | C. F. Seymour, labor. C. W. Smedberg, labor. F. E. Williams, labor.  Total Engineer Department. \$2  Board of Review  Albert Fiegel, services. \$  Albert S. Lutz, services. Thomas Hanselmann, services. Julius Koernke, services. Frank Heck, services. Wr. P. Flynn, services. John W. Markey, services. I. L. Sherk, services. F. B. Manwaring, services. John McGregor, services. C. C. Freeman, services. Geoige Lutz, services.   | 16.65<br>63.00<br>29.25<br>74.85<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5 |
| Julius Lohrke, s R. M. Caughey, s M. E. Easterly, John A. Wessinge Fred Biggs, sala Ura G. Rickert, s Geo. F. Muehlig, M. C. Ryan, salar Edward Besch, c  Total salaries a Fred Chas, J. Andrews Eugene Williams, Geo. Hoelzle, sal Ralph Edwards, Henry McLaren, Jacob Gwinner, s Arthur Clark, sa   | alary 80.00 alary 70.00 salary 55.00 er, salary 50.00 ry 50.00 alary 50.00 salary 50.00 salary 50.00 salary 25.00 ey ½ month 30.00 ollecting garbage, 400.00 and services \$1,653.32 ere Fund , salary \$50.00 salary 38.50 ary 38.50 salary 38.50 salary 36.50 salary 36.50 alary 36.50 lary 35.00   | C. F. Seymour, labor. C. W. Smedberg, labor. F. E. Williams, labor.  Total Engineer Department.  Board of Review  Albert Fiegel, services.  Albert S. Lutz, services.  Thomas Hanselmann, services.  Julius Koernke, services.  Frank Heck, services.  Wm. P. Flynn, services.  John W. Markey, services.  I. L. Sherk, services.  F. B. Manwaring, services.  John McGregor, services.  C. C. Freeman, services.  Geoige Lutz, services.  Chas. A. Sink, services.  | 16.65<br>63.00<br>29.25<br>74.85<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5 |
| Julius Lohrke, s R. M. Caughey, s M. E. Easterly, John A. Wessinge Fred Biggs, sala Ura G. Rickert, s Geo. F. Muehlig, M. C. Ryan, salar Edward Besch, c  Total salaries a Fr Chas, J. Andrews Eugene Williams, Geo. Hoelzle, sal Ralph Edwards, Henry McLaren, Jacob Gwinner, s Arthur Clark, sa Harley Wise, sal                                    | alary 80.00 alary 70.00 salary 55.00 er, salary 50.00 er, salary 50.00 er, salary 50.00 er, salary 50.00 alary 50.00 salary 25.00 er, ½ month 30.00 collecting garbage, 400.00 er, \$1,653.32 ere Fund er, salary \$50.00 ary 38.50 ary 38.50 ary 38.50 ary 36.50 alary 36.50 | C. F. Seymour, labor. C. W. Smedberg, labor. F. E. Williams, labor.  Total Engineer Department. \$2  Board of Review  Albert Fiegel, services. \$  Albert S. Lutz, services. Thomas Hanselmann, services. Julius Koernke, services. Frank Heck, services. Wr. P. Flynn, services. John W. Markey, services. I. L. Sherk, services. F. B. Manwaring, services. John McGregor, services. C. C. Freeman, services. Geoige Lutz, services.   | 16.65<br>63.00<br>29.25<br>74.85<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5 |
| Julius Lohrke, s R. M. Caughey, s M. E. Easterly, John A. Wessinge Fred Biggs, sala Ura G Rickert, s Geo. F. Muehlig, M. C. Ryan, salar Edward Besch, c  Total salaries a Chas, J. Andrews Eugene Williams, Geo Hoelzle, sal Ralph Edwards, Henry McLaren, Jacob Gwinner, s Arthur Clark, sal Harley Wise, sal Martin Noll, sala                      | alary 80.00 alary 70.00 salary 55.00 er, salary 50.00 er, salary 50.00 alary 50.00 alary 50.00 alary 50.00 er, salary 50.00 alary 50.00 er, salary 25.00 er, 1653.32 ere Fund er, salary 38.50 ary 38.50 salary 38.50 salary 38.50 ary 36.50 alary 36.50 alary 35.00 ary 35.00 ary 35.00 ary 35.00 ary 35.00  | C. F. Seymour, labor. C. W. Smedberg, labor. F. E. Williams, labor.  Total Engineer Department. \$2  Board of Review  Albert Fiegel, services.  Albert S. Lutz, services.  Thomas Hanselmann, services.  Julius Koernke, services.  Wm. P. Flynn, services.  John W. Markey, services.  I. L. Sherk, services.  F. B. Manwaring, services.  John McGregor, services.  C. C. Freeman, services.  Geoige Lutz, services.  Chas. A. Sink, services.  Ernst M. Wurster, services.  | 16.65<br>63.00<br>29.25<br>74.85<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5 |
| Julius Lohrke, s R. M. Caughey, s M. E. Easterly, John A. Wessinge Fred Biggs, sala Ura G. Rickert, s Geo. F. Muehlig, M. C. Ryan, salar Edward Besch, c  Total salaries a  Chas, J. Andrews Eugene Williams, Geo Hoelzle, sal Ralph Edwards, Henry McLaren, Jacob Gwinner, s Arthur Clark, sal Harley Wise, sal Martin Noll, sala Geo. Isbel, salary | alary 80.00 alary 70.00 salary 55.00 er, salary 50.00 ry 50.00 alary 50.00 salary 50.00 y 50.00 salary 50.00 y ½ month 30.00 ollecting garbage, 400.00 and services \$1,653.32 ere Fund y salary \$50.00 salary \$50.00 salary \$38.50 ary 38.50 salary 38.50 alary 36.50 alary 36.50 alary 35.00 ary 35.00 ary 35.00                                 | C. F. Seymour, labor. C. W. Smedberg, labor. F. E. Williams, labor.  Total Engineer Department. \$2  Board of Review  Albert Fiegel, services. \$ Albert S. Lutz, services. Thomas Hanselmann, services. Julius Koernke, services.  Vm. P. Flynn, services.  John W. Markey, services.  I. L. Sherk, services. F. B. Manwaring, services. John McGregor, services. C. C. Freeman, services. Geoige Lutz, services. Chas. A. Sink, services. Ernst M. Wurster, services.  Total Board of Review.  | 16.65<br>63.00<br>29.25<br>74.85<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5 |
| Julius Lohrke, s R. M. Caughey, s M. E. Easterly, John A. Wessinge Fred Biggs, sala Ura G. Rickert, s Geo. F. Muehlig, M. C. Ryan, salar Edward Besch, c  Total salaries a  Chas, J. Andrews Eugene Williams, Geo Hoelzle, sal Ralph Edwards, Henry McLaren, Jacob Gwinner, s Arthur Clark, sal Harley Wise, sal Martin Noll, sala Geo. Isbel, salary | alary 80.00 alary 70.00 salary 55.00 er, salary 50.00 er, salary 50.00 alary 50.00 alary 50.00 alary 50.00 er, salary 50.00 alary 50.00 er, salary 25.00 er, 1653.32 ere Fund er, salary 38.50 ary 38.50 salary 38.50 salary 38.50 ary 36.50 alary 36.50 alary 35.00 ary 35.00 ary 35.00 ary 35.00 ary 35.00  | C. F. Seymour, labor. C. W. Smedberg, labor. F. E. Williams, labor.  Total Engineer Department. \$2  Board of Review  Albert Fiegel, services.  Albert S. Lutz, services.  Thomas Hanselmann, services.  Julius Koernke, services.  Wm. P. Flynn, services.  John W. Markey, services.  I. L. Sherk, services.  F. B. Manwaring, services.  John McGregor, services.  C. C. Freeman, services.  Geoige Lutz, services.  Chas. A. Sink, services.  Ernst M. Wurster, services.  | 16.65<br>63.00<br>29.25<br>74.85<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5 |

| Geo. W. Sweet, expenses paid 4.14  | John F. Wagner & Co., supplies 11.20   |
|--|--|
| C. R. Pollan, services   | Total supplies, etc\$ 37.81  |
| Eastern Michigan Edison Co., City  |  |
| Hall and clock   | Poor Fund total 72.81  |
| City Ice Co., ice for season 18.20   | J. W. O'Brien, labor\$ 3.00  |
| Michigan State Telephone Co., tolls. 1.50<br>The Gillette Co., posting notices 3.50  | W. J. Randel, labor 3.00   |
| The C. F. Pease Co., supplies 3.99   | Ann Arbor Civic association, trees and shrubs  |
| John C. Fischer Co., supplies 1.50<br>The Mayer-Schairer Co., supplies 12.50   | Total labor, etc   |
| Muchlig & Schmid, supplies 1.17  |  |
| The Times News Co., printing 492.95<br>Chas. F. Meyers, printing 3.00  | Cemetery Fund total\$ 91.52  |
| Sid. W. Millard, printing 51.50  | Joe Clay buria s\$ 1.50  |
| C. M. King, repairs 1.50<br>C. H. Kittredge & Co., repairs 6.50  | Joseph Wickliffe, burials  |
| Smith Tire Repair Co., repairs 2.50  | Joseph Williams, burials 1.50  |
| Breitenwischer Auto Co., repairs, etc 9.58   | Total\$ 3.50   |
| Manley Osgood, expenses paid 2.99  | Street Lighting Fund Eastern Mich. Edison Co., light\$1,521.16   |
| Ross Granger, express paid   | Steere Farm Fund   |
| Total supplies, etc\$899.15  | C. J. Rash, labor\$ 2.70<br>Michigan State Telephone Co., tolls 6.78   |
| Contingent Fund total\$2,897.32  |  |
| Fire Fund  | Total\$ 9.48   |
| Washtenaw Gas Co., light, etc., 2 months\$ 20.39   | W. H. Willsher, services \$ 37.50  |
| Eastern Michigan Edison Co., light,  | Joel West, services 37.50  |
| white Swan Laundry Co., laundry. 10.74   | Leslie Bush, services         37.50           Robert Stoll, services         30.00   |
| Fred H Wentworth, supplies 3.92  | Fred Schwikert, services 30.00   |
| L. O. Cushing, supplies  | John Ford, services         30.00           J. Schwikert, services         32.50   |
| John C. Fischer Co., supplies 6.98   | Henry Linde, services 32.50  |
| C. H. Kittredge & Co., supplies 2.82  Mack & Co., supplies 15.00   | John Wood, services  |
|  |  |
| Muchlig & Schmid, supplies   | Cliff Shetterly, services 41.66  |
| Schumacher Hardware Co., supplies 7.30   | Louise Malloy, services 20.11  |
| Schumacher Hardware Co., supplies 7.30<br>Adolph Walters, hay  | Raymond Spokes, services 10.00   |
| Schumacher Hardware Co., supplies         7.30           Adolph Walters, hay   | Raymond Spokes, services   |
| Schumacher Hardware Co., supplies       7.30         Adolph Walters, hay       37.52         W. H. L. Rohde, coal       5.50         City Ice Co., ice       10.00         The Times News Co., printing       5.10         J. L. Chapman, repairs       1.50   | Louise Malloy, services  |
| Schumacher Hardware Co., supplies 7.30 Adolph Walters, hay   | Louise Malloy, services 20.13 Raymond Spokes, services 10.00  Total services for ½ month of November. \$411.66 F. Rhodenbecker, labor. \$38.06 L. Hazelschwerdt, labor. 35.00 J. Glazier, labor. 38.06   |
| Schumacher Hardware Co., supplies 7.30 Adolph Walters, hay   | Louise Malloy, services Raymond Spokes, services   |
| Schumacher Hardware Co., supplies 7.30 Adolph Walters, hay 37.52 W. H. L. Rohde, coal 5.50 City Ice Co., ice 10.00 The Times News Co., printing 5.10 J. L. Chapman, repairs 1.50 Schumacher & Backhaus, repairs 4.75 Gus J. Vogel, repairs 2.60 C. W. Cornell, horseshoeing, etc. 13.30 Seybold & Esslinger, horseshoeing, etc. 27.15  | Louise Malloy, services Raymond Spokes, services   |
| Schumacher Hardware Co., supplies 7.30 Adolph Walters, hay 37.52 W. H. L. Rohde, coal 5.50 City Ice Co., ice 10.00 The Times News Co., printing 5.10 J. L. Chapman, repairs 1.50 Schumacher & Backhaus, repairs 4.75 Gus J. Vogel, repairs 2.60 C. W. Cornell, horseshoeing, etc 13.30 Seybold & Esslinger, horseshoeing, etc. 27.15   | Louise Malloy, services Raymond Spokes, services   |
| Schumacher Hardware Co., supplies 7.30 Adolph Walters, hay 37.52 W. H. L. Rohde, coal 5.50 City Ice Co., ice 10.00 The Times News Co., printing 5.10 J. L. Chapman, repairs 1.50 Schumacher & Backhaus, repairs 4.75 Gus J. Vogel, repairs 2.60 C. W. Cornell, horseshoeing, etc 13.30 Seybold & Esslinger, horseshoeing, etc 27.15 Total supplies, etc \$185.39   | Louise Malloy, services Raymond Spokes, services   |
| Schumacher Hardware Co., supplies 7.30 Adolph Walters, hay 37.52 W. H. L. Rohde, coal 5.50 City Ice Co., ice 10.00 The Times News Co., printing 5.10 J. L. Chapman, repairs 1.50 Schumacher & Backhaus, repairs 4.75 Gus J. Vogel, repairs 2.60 C. W. Cornell, horseshoeing, etc. 13.30 Sevbold & Esslinger, horseshoeing, etc. 27.15  Total supplies, etc. \$185.39 Fire Fund total \$967.55  | Louise Malloy, services Raymond Spokes, services   |
| Schumacher Hardware Co., supplies       7.30         Adolph Walters, hay       37.52         W. H. L. Rohde, coal       5.50         City Ice Co., ice       10.00         The Times News Co., printing       5.10         J. L. Chapman, repairs       1.50         Schumacher & Backhaus, repairs       4.75         Gus J. Vogel, repairs       2.60         C. W. Cornell, horseshoeing, etc       13.30         Sevbold & Esslinger, horseshoeing, etc       27.15         Total supplies, etc       \$185.39         Fire Fund total       \$967.55         Police Fund         John Shankland, special       \$ 2.25  | Louise Malloy, services Raymond Spokes, services   |
| Schumacher Hardware Co., supplies       7.30         Adolph Walters, hay       37.52         W. H. L. Rohde, coal       5.50         City Ice Co., ice       10.00         The Times News Co., printing       5.10         J. L. Chapman, repairs       1.50         Schumacher & Backhaus, repairs       4.75         Gus J. Vogel, repairs       2.60         C. W. Cornell, horseshoeing, etc       13.30         Seybold & Esslinger, horseshoeing, etc       27.15         Total supplies, etc       \$185.39         Fire Fund total       \$967.55         Police Fund         John Shankland, special       \$ 2.25         Standard Oil Co., gasoline       43.20   | Louise Malloy, services       20.17         Raymond Spokes, services       10.00         Total services for ½ month of November       \$411.66         F. Rhodenbecker, labor       \$38.06         L. Hazelschwerdt, labor       35.00         J. Glazier, labor       38.06         J. Nimz, labor       26.25         H. Koernke, labor       30.50         George Mast, labor       22.25         A. Molkentine, labor       28.50         Fred Luepke, labor       32.75         Peter Carey, labor       24.00         Chris, Larmee, labor       2.25         A. Kellogg, labor       5.75         Total labor       \$263.37   |
| Schumacher Hardware Co., supplies       7.30         Adolph Walters, hay       37.52         W. H. L. Rohde, coal       5.50         City Ice Co., ice       10.00         The Times News Co., printing       5.10         J. L. Chapman, repairs       1.50         Schumacher & Backhaus, repairs       4.75         Gus J. Vogel, repairs       2.60         C. W. Cornell, horseshoeing, etc       13.30         Sevbold & Esslinger, horseshoeing, etc       27.15         Total supplies, etc       \$185.39         Fire Fund total       \$967.55         Police Fund         John Shankland, special       \$ 2.25         Standard Oil Co., gasoline       43.20         Michigan State Telephone Co., tolls       1.45         Muehlig & Schmid, supplies       .75   | Louise Malloy, services       20.17         Raymond Spokes, services       10.00         Total services for ½ month of November       \$411.66         F. Rhodenbecker, labor       \$38.06         L. Hazelschwerdt, labor       35.00         J. Glazier, labor       38.06         J. Nimz, labor       26.25         H. Koernke, labor       30.50         George Mast, labor       2.25         A. Molkentine, labor       28.50         Fred Luepke, labor       32.75         Peter Carey, labor       24.00         Chris. Larmee, labor       2.25         A. Kellogg, labor       5.75         Total labor       \$263.37         Ohio & Michigan Coal Co., supplies       \$9.85         Roe-Stephens Mfg. Co., supplies       150.00   |
| Schumacher Hardware Co., supplies 7.30 Adolph Walters, hay 37.52 W. H. L. Rohde, coal 5.50 City Ice Co., ice 10.00 The Times News Co., printing 5.10 J. L. Chapman, repairs 1.50 Schumacher & Backhaus, repairs 4.75 Gus J. Vogel, repairs 2.60 C. W. Cornell, horseshoeing, etc 13.30 Sevbold & Esslinger, horseshoeing, etc 27.15 Total supplies, etc \$185.39  Fire Fund total \$967.55  Police Fund John Shankland, special \$2.25 Standard Oil Co., gasoline 43.20 Michigan State Telephone Co., tolls 1.45 Muehlig & Schmid, supplies 7.5 Schumacher Hardware Co., supplies 9.70   | Louise Malloy, services       20.17         Raymond Spokes, services       10.00         Total services for ½ month of November       \$411.66         F. Rhodenbecker, labor       \$38.06         L. Hazelschwerdt, labor       35.00         J. Glazier, labor       38.06         J. Nimz, labor       26.25         H. Koernke, labor       30.50         George Mast, labor       2.25         A. Molkentine, labor       28.50         Fred Luepke, labor       32.75         Peter Carey, labor       24.00         Chris. Larmee, labor       2.25         A. Kellogg, labor       5.75         Total labor       \$263.37         Ohio & Michigan Coal Co., supplies       \$9.85         Roe-Stephens Mfg. Co., supplies       150.00         Crane Co., supplies       166.83  |
| Schumacher Hardware Co., supplies 7.30 Adolph Walters, hay 37.52 W. H. L. Rohde, coal 5.50 City Ice Co., ice 10.00 The Times News Co., printing 5.10 J. L. Chapman, repairs 1.50 Schumacher & Backhaus, repairs 4.75 Gus J. Vogel, repairs 2.60 C. W. Cornell, horseshoeing, etc 13.30 Sevbold & Esslinger, horseshoeing, etc 27.15  Total supplies, etc \$185.39  Fire Fund total \$967.55  Police Fund John Shankland, special \$2.25 Standard Oil Co., gasoline 43.20 Michigan State Telephone Co., tolls 1.45 Muehlig & Schmid, supplies 75 Schumacher Hardware Co., supplies 9.70 Harvey Stofflet, subscriptions 8.50 Clyde C. Kerr, printing 12.75   | Louise Malloy, services Raymond Spokes, services   |
| Schumacher Hardware Co., supplies 7.30 Adolph Walters, hay 37.52 W. H. L. Rohde, coal 5.50 City Ice Co., ice 10.00 The Times News Co., printing 5.10 J. L. Chapman, repairs 1.50 Schumacher & Backhaus, repairs 4.75 Gus J. Vogel, repairs 2.60 C. W. Cornell, horseshoeing, etc 13.30 Sevbold & Esslinger, horseshoeing, etc 27.15  Total supplies, etc \$185.39  Fire Fund total \$967.55  Police Fund John Shankland, special \$2.25 Standard Oil Co., gasoline 43.20 Michigan State Telephone Co., tolls 1.45 Muehlig & Schmid, supplies 75 Schumacher Hardware Co., supplies 9.70 Harvey Stofflet, subscriptions 8.50 Clyde C. Kerr, printing 12.75 Frank Pardon, rent of auto 30.00  | Louise Malloy, services       20.17         Raymond Spokes, services       10.00         Total services for ½ month of November.       \$411.66         F. Rhodenbecker, labor       \$38.06         L. Hazelschwerdt, labor       35.00         J. Glazier, labor       26.25         H. Koernke, labor       26.25         H. Koernke, labor       22.5         A. Molkentine, labor       28.50         Fred Luepke, labor       22.50         Fred Luepke, labor       24.00         Chris, Larmee, labor       2.25         A. Kellogg, labor       5.75         Total labor       \$263.37         Ohio & Michigan Coal Co., supplies       \$99.85         Roe-Stephens Mfg. Co., supplies       150.00         Crane Co., supplies       166.83         Eaton-Clark Co., supplies       3.93         Schumacher Hardware Co., supplies       3.40         Barnes & O'Neil, supplies       4.20   |
| Schumacher Hardware Co., supplies 7.30 Adolph Walters, hay 37.52 W. H. L. Rohde, coal 5.50 City Ice Co., ice 10.00 The Times News Co., printing 5.10 J. L. Chapman, repairs 1.50 Schumacher & Backhaus, repairs 4.75 Gus J. Vogel, repairs 2.60 C. W. Cornell, horseshoeing, etc 13.30 Sevbold & Esslinger, horseshoeing, etc 27.15  Total supplies, etc \$185.39  Fire Fund total \$967.55  Police Fund John Shankland, special \$2.25 Standard Oil Co., gasoline 43.20 Michigan State Telephone Co., tolls 1.45 Muehlig & Schmid, supplies 7.5 Schumacher Hardware Co., supplies 9.70 Harvey Stofflet, subscriptions 8.50 Clyde C. Kerr, printing 12.75 Frank Pardon, rent of auto 30.00 Stark Taxicab Co., taxi service 6.00 Washtenaw Gas Co., repairs 1.05  | Louise Malloy, services Raymond Spokes, services   |
| Schumacher Hardware Co., supplies 7.30 Adolph Walters, hay 37.52 W. H. L. Rohde, coal 5.50 City Ice Co., ice 10.00 The Times News Co., printing 5.10 J. L. Chapman, repairs 1.50 Schumacher & Backhaus, repairs 4.75 Gus J. Vogel, repairs 2.60 C. W. Cornell, horseshoeing, etc 13.30 Sevbold & Esslinger, horseshoeing, etc 27.15  Total supplies, etc \$185.39  Fire Fund total \$967.55  Police Fund  John Shankland, special \$2.25 Standard Oil Co., gasoline 43.20 Michigan State Telephone Co., tolls 1.45 Muehlig & Schmid, supplies 75 Schumacher Hardware Co., supplies 9.70 Harvey Stofflet, subscriptions 8.50 Clyde C. Kerr, printing 12.75 Frank Pardon, rent of auto 30.00 Stark Taxicab Co., taxi service 6.00 Washtenaw Gas Co., repairs 1.05 Ann Arbor Garage, repairs, etc 10.69   | Louise Malloy, services Raymond Spokes, services   |
| Schumacher Hardware Co., supplies 7.30 Adolph Walters, hay 37.52 W. H. L. Rohde, coal 5.50 City Ice Co., ice 10.00 The Times News Co., printing 5.10 J. L. Chapman, repairs 1.50 Schumacher & Backhaus, repairs 4.75 Gus J. Vogel, repairs 2.60 C. W. Cornell, horseshoeing, etc 13.30 Sevbold & Esslinger, horseshoeing, etc 27.15  Total supplies, etc \$185.39  Fire Fund total \$967.55  Police Fund John Shankland, special \$2.25 Standard Oil Co., gasoline 43.20 Michigan State Telephone Co., tolls 1.45 Muehlig & Schmid, supplies 75 Schumacher Hardware Co., supplies 9.70 Harvey Stofflet, subscriptions 8.50 Clyde C. Kerr, printing 12.75 Frank Pardon, rent of auto 30.00 Stark Taxicab Co., taxi service 6.00 Washtenaw Gas Co., repairs, etc 10.69 City Taxicab Co., repairs, etc 9.60   | Louise Malloy, services Raymond Spokes, services   |
| Schumacher Hardware Co., supplies 7.30 Adolph Walters, hay 37.52 W. H. L. Rohde, coal 5.50 City Ice Co., ice 10.00 The Times News Co., printing 5.10 J. L. Chapman, repairs 1.50 Schumacher & Backhaus, repairs 4.75 Gus J. Vogel, repairs 2.60 C. W. Cornell, horseshoeing, etc 13.30 Sevbold & Esslinger, horseshoeing, etc 27.15  Total supplies, etc \$185.39  Fire Fund total \$967.55  Police Fund John Shankland, special \$2.25 Standard Oil Co., gasoline 43.20 Michigan State Telephone Co., tolls 1.45 Muehlig & Schmid, supplies 75 Schumacher Hardware Co., supplies 9.70 Harvey Stofflet, subscriptions 8.50 Clyde C. Kerr, printing 12.75 Frank Pardon, rent of auto 30.00 Stark Taxicab Co., taxi service 6.00 Washtenaw Gas Co., repairs 1.05 Ann Arbor Garage, repairs, etc 10.69 City Taxicab Co., repairs, etc 9.60 Total supplies, etc \$135.94                               | Louise Malloy, services Raymond Spokes, services   |
| Schumacher Hardware Co., supplies 7.30 Adolph Walters, hay 37.52 W. H. L. Rohde, coal 5.50 City Ice Co., ice 10.00 The Times News Co., printing 5.10 J. L. Chapman, repairs 1.50 Schumacher & Backhaus, repairs 4.75 Gus J. Vogel, repairs 2.60 C. W. Cornell, horseshoeing, etc 13.30 Sevbold & Esslinger, horseshoeing, etc 27.15  Total supplies, etc \$185.39  Fire Fund total \$967.55  Police Fund  John Shankland, special \$2.25 Standard Oil Co., gasoline 43.20 Michigan State Telephone Co., tolls 1.45 Muehlig & Schmid, supplies 75 Schumacher Hardware Co., supplies 9.70 Harvey Stofflet, subscriptions 8.50 Clyde C. Kerr, printing 12.75 Frank Pardon, rent of auto 30.00 Stark Taxicab Co., taxi service 6.00 Washtenaw Gas Co., repairs 1.05 Ann Arbor Garage, repairs, etc 10.69 City Taxicab Co., repairs, etc 9.60  Total supplies, etc \$135.94  Police Fund total \$525.10 | Louise Malloy, services Raymond Spokes, services Raymond Spokes, services Round Round Spokes, services Round Round Spokes, services Round Round Round Spokes, services Round Roun |
| Schumacher Hardware Co., supplies 7.30 Adolph Walters, hay 37.52 W. H. L. Rohde, coal 5.50 City Ice Co., ice 10.00 The Times News Co., printing 5.10 J. L. Chapman, repairs 1.50 Schumacher & Backhaus, repairs 4.75 Gus J. Vogel, repairs 2.60 C. W. Cornell, horseshoeing, etc 13.30 Sevbold & Esslinger, horseshoeing, etc 27.15  Total supplies, etc \$185.39  Fire Fund total \$2.25 Standard Oil Co., gasoline 43.20 Michigan State Telephone Co., tolls 1.45 Muehlig & Schmid, supplies 75 Schumacher Hardware Co., supplies 9.70 Harvey Stofflet, subscriptions 8.50 Clyde C. Kerr, printing 12.75 Frank Pardon, rent of auto 30.00 Stark Taxicab Co., taxi service 6.00 Washtenaw Gas Co., repairs 1.05 Ann Arbor Garage, repairs, etc 10.69 City Taxicab Co., repairs, etc 9.60  Total supplies, etc \$135.94  Police Fund total \$525.10  Poor Fund Schultz Bros., supplies \$4.00      | Louise Malloy, services Raymond Spokes, services   |
| Schumacher Hardware Co., supplies 7.30 Adolph Walters, hay 37.52 W. H. L. Rohde, coal 5.50 City Ice Co., ice 10.00 The Times News Co., printing 5.10 J. L. Chapman, repairs 1.50 Schumacher & Backhaus, repairs 4.75 Gus J. Vogel, repairs 2.60 C. W. Cornell, horseshoeing, etc 13.30 Sevbold & Esslinger, horseshoeing, etc 27.15  Total supplies, etc \$185.39  Fire Fund total \$967.55  Police Fund  John Shankland, special \$2.25 Standard Oil Co., gasoline 43.20 Michigan State Telephone Co., tolls 1.45 Muehlig & Schmid, supplies 75 Schumacher Hardware Co., supplies 9.70 Harvey Stofflet, subscriptions 8.50 Clyde C. Kerr, printing 12.75 Frank Pardon, rent of auto 30.00 Stark Taxicab Co., taxi service 6.00 Washtenaw Gas Co., repairs 1.05 Ann Arbor Garage, repairs, etc 10.69 City Taxicab Co., repairs, etc 9.60  Total supplies, etc \$135.94  Police Fund total \$525.10 | Louise Malloy, services Raymond Spokes, services Raymond Spokes, services Round Round Spokes, services Round Round Spokes, services Round Round Round Spokes, services Round Roun |

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| Park Fund  | Emmett Schafer, team 750   |
| Horace Barnard, labor\$ 6.00   | A. M. Steffen, team 4.00   |
| Mort Bowen, labor 1.25   | Claud Young, team 13.00  |
| Howard Bros., labor 9.00   |  |
| A. L. LeGraves, labor 1.65   | Total labor\$167.21  |
| W. J. Randel, labor 2.38   | Hertler Bros., supplies \$ 7.00  |
| Dana Wilbee, labor 4.65  | E. L. Schneider, final payment W.  |
| # 24.02  | Jefferson storm sewer and Cam-   |
| Total labor\$ 24.93  | bridge road storm sewer 127.22   |
| H. J. Abbott, P. M., postage\$ 2.13<br>Ann Arbor Civic association, shrubs | S. A. Elsifor, team  |
|  | Ann Arbor Machine Co., supplies 108.56   |
| and trees  | Total supplies etc 9245 00   |
| City Taxicab Co. (Liberty st.), sin-                                       | Total supplies, etc\$245.98  |
| gle wagon 2.00   | Bridge, Culvert and Crosswalk fund total   |
| C. E. Godfrey, freight and cartage 1.44                                    |  |
| Schumacher & Backhaus, services,   | Labor Accounts, Paving Districts   |
| etc 1.65   | Ann Arbor Water Works Dept.  |
|  | for water used—  |
| Total supplies, etc\$ 79.62  | No. 32\$ 27.36   |
|  | No. 33   |
| Park Fund total\$229.55  | No. 34 123.14  |
| Street Fund  | No. 35 46.19   |
| Douglass Bycraft, labor\$ 3.50   | Matal dana 77  |
| Wm. Clark, labor 23.75   | Total\$352.57  |
| Emanuel Holzapfel, labor 4.63  | Labor Acc. Pav. Dist. No. 34   |
| Sam Kalmbach, labor 2.45   | University of Michigan, repairs \$ 390   |
| Matt Koch, labor 6.67<br>Geo. J. Mack, labor 23.89                         | Recapitulation   |
|  | Contingent fund\$2,897.32  |
| James Mason, labor   | Fire fund 937.55   |
| Geo. J. Schaible, labor 24.22  | Police fund 525.10   |
| Eugene Schlanderer, labor 23.22  | Poor fund  |
| A. G. Schneeberger, labor 18.22  | Cemetery fund 91.52  |
| Jacob F. Staebler, labor 9.78  | Dog License fund 3.50  |
| Fred Ulrich, labor 46.34   | Street Lighting fund 1,521.16  |
| Martin Walsh, labor 10.00  | Steere Farm fund 9.48  |
| John Wendland, labor 23.89   | Water Works fund 2,456.94  |
| Max Bethke, team 3.00  | Park fund  |
| Frel G. Hanselman, team 67.50  | Street fund  |
| Robert Miller, team 38.30  | Bridge, Culvert and Crosswalk 413.19   |
| Carl Rehberg, team 28.50   | Total City funds\$10,002.92  |
| George Schaible, team 44.33  | Paving Districts Labor Accounts—   |
| Claud Young, team 48.00  | No. 32\$ 27.36   |
| Total labor\$503.15  | No. 33 65.88   |
| Dawson Bros, supplies\$ 1.00   | No. 34 197.04  |
| Dean & Co., supplies 2.74  | No. 35 46.19   |
| Jno. C. Fischer Co., supplies 9.20   |  |
| Hertler Bros., supplies 49.09  | Total Paving funds\$ 336.47  |
| Schumacher Hardware Co., sup-  | Grand total\$10,339.39   |
| plies 7.40   | Ann Arbor, Mich., Dec. 6, 1915.  |
| John A Tice, supplies 1.00   | To the Finance committee of the Com-   |
| Gott, Ely, gravel 1.25   | mon Council: Gentlemen-I have exam-  |
| John W. Herrst, gravel 79.62   | ined the toregoing accounts against the  |
| M. E. Lennon, gravel 5.75  | city of Ann Arbor, and I hereby certify  |
| Arthur Lyon, gravel 103.35   | that they are correct to the best of my  |
| A. F. Shepherd, gravel 2.30  | knowledge. ROSS GRANGER, City Clerk.   |
| L. C. Weinmann, gravel 2.70  | To the Honorable, the Common Council:  |
| Chas. A. Sauer & Co., extension 28.80                                      | Gentlemen-Your Finance committee has   |
| C. W. Cornel <sup>1</sup> , horseshoeing 5.80                              | reviewed the foregoing report. Warrants for salaries were drawn Dec. 1, 1915. We |
| Seybold & Esslinger, repairs 11.65   | for salaries were drawn Dec. 1, 1915. We recommend that same be approved and     |
| m-t-1  | that warrants be ordered drawn for the   |
| Total supplies, etc\$311.65  | foregoing accounts.  |
| Street fund total\$814.80  | GEO. LUTZ, ALBERT FIEGEL, Finance  |
| Bridge, Culvert and Crosswalk Fund<br>Douglass Bycraft, labor\$ 20.75      | Committee.   |
| Wm. Clark, labor 8.89  |  |
| Emanuel Holzapfel, labor 27.88   | Ald. G. Lutz moved the adoption  |
| Matt. Koch, labor 6.45   | of the report, which was adopted by  |
| James Mason, labor 11.84   | unanimous vote of the Council, 15.   |
| Eugene Schlanderer, labor 645  | Ald. G. Lutz presented the follow-   |
| Jacob F. Staebler, labor 6.45  | ing estimates from the City Engineer   |
| Martin Walsh, labor 21 50  | and moved that amounts now due be  |
| Max Bethke, team 17.75   | allowed:   |
| Carl Rehberg, team 14.75   | First estimate, storm water sewer  |
|  |  |

cn Edwin and McKinley streets, Edward street, pursuant to order and Barnes & O'Neil, contractors, amount resolution passed by the Council, Nodue \$1.278.45. vember 15th, 1915, was called to or-

Second estimate, sewer district No. 68, Wm. Eddy & Son, contractors, amount due \$2,059.26.

First estimate, sewer district No. 72, Tom Joyce, contractor, amount due \$654.07.

Adopted by unanimous vote of Council, 15.

Ald. G. Lutz presented the bill of Franklin L. Parker for over-payment of taxes in paving district No. 21, and moved that amount of \$1.45 be refunded, which was adopted by unanimous vote, 15.

Moved by Ald. Sink, that Council ad ourn to meet Monday, Dec. 13, 1915, at 7:30 p. m. Adopted.

ROSS GRANGER, Clerk.

# **Board of Review**

Council Chamber, Ann Arbor, Mich., December 6th, 1915, 7 o'clock p. m. Meeting of the Common Council as a Board of Review on the closing of

Edward street, pursuant to order and resolution passed by the Council, November 15th, 1915, was called to order by President Wurster, and the following members found present: Ald. Heusel, Fiegel, Hanselman, Albert Lutz, Koernke, Heck, Markey, Flynn, Sherk, Manwaring, Freeman, George Lutz, Sink and President Wurster, 14. Absent, Ald. McGregor.

The Council entered upon the review of said proposed closing of Edward street between Summit street and street known as Charles street, heretofore closed. Due proof of the proper notice of meeting was filed. After hearing all persons desiring to be heard, the following resolution was offered:

By Ald. Albert Lutz: Resolved, that the Chair appoint a committee of three to confer with those interested in Edward street, and see what disposition can be made of the proposition aforesaid. Adopted, and the following committee appointed: Ald. Manwaring, Fiegel and Heck.

The Board adjourned.

ROSS GRANGER, Clerk.