

Council Chamber, Ann Arbor Mich.,  
Feb. 5, 1923.

### Regular Session

Meeting called to order by Ald  
Sugden, President pro tem.

Pres: Ald. Johnson, Haarer Graf  
Lunderson, Lucas, Groves, Moore,  
Spachel, White, Freeman, Norris.  
Ald. Sugden, 12.

Absent: Ald. Markey, Lutz, 2.

Minutes of previous meeting ap-  
proved.

### Communication

#### From Board of Public Works

City Engineer's estimates of cost  
of pavements for Districts Nos 52,  
43 and 54, which were approved  
by Board of Public Works Jan. 31,  
1923, were received and referred  
to Street Committee.

#### (From Board)

City Engineer presented plan of  
parking space on S. University ave-  
nue between State st. and Oakland  
ave., in accordance with agreement  
with University of Michigan ap-  
proved by Council June 19, 1922

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

#### (Council Action)

Referred to Street Committee.

#### Proposed Charter Amendments Approved

State of Michigan,  
Executive Office,

Lansing, Mich., Jan 31, 1923.

My dear sir:

I am returning herewith the pro-  
posed amendments to the Charter  
of the City of Ann Arbor, which  
have been duly approved.

Very Truly yours,

Ro ph Duff Secretary.

Ordered entered in minutes.

Certified copy of proceedings of  
the Michigan Public Utilities Com-  
mission in the matter of the regu-  
lation of gas rates of the Washten-  
aw Gas Company received and or-  
dered on file

Written request from Ross Gra-  
nger Camp No. 7, United Spanish  
War Veterans, for use of Council  
Chamber Feb. 15th received; and  
on motion of Ald. Johnson request  
was granted.

Petition of Mrs. Geo. Gross for  
crosswalks at corner of John K  
st. and First st. received and re-  
ferred to Sidewalk Committee

#### Service Stations Petitions

Petition received from the Stand-  
ard Oil Company for permit to es-  
tablish a gasoline service station at  
southeast corner of Huron and  
Eighth s's with written consent of  
28 property owners attached, also

request for lowering of curb 50 ft.  
on each street and for permit to  
install two 20 barrel gasoline stor-  
age tanks. Referred to City Engi-  
neer

Petition of L. L. Griffiths and  
thirteen other residents requesting  
Council to deny petition for serv-  
ice station at corner of Huron and  
Eighth s's. received and referred  
to City Engineer.

Request of Frank J. Ryan and five  
others, that their names be with-  
drawn from petition requesting  
Council to refuse to grant permis-  
sion for construction of service sta-  
tion at the forks of Jackson and  
Dexter ayes. received and referred  
to City Engineer.

#### Claims

Claim of Frank Duart for alleged  
damages to automobile and personal  
injuries due to pile of dirt on Dex-  
ter ave., received and referred to  
City Attorney.

Notice from Arthur Brown, attor-  
ney for Emmett R. Schaffer and  
wife to remove sanitary sewer from  
lot 78 in White's addition, received  
and referred to City Attorney.

#### Committee Reports

##### Finance Report

##### Contingent Fund

Geo. E. Lewis, salary....\$	41 66
I. G. Reynolds salary....	208.33
Ros; Granger salary....	208.33
Herbert W. Crippen, salary	208.33
Alfred J. Paul, salary....	208.33
Geo. H. Sandenburgh, sal- ary . . . . .	250.00
Roscoe O. Bonisteel sal- ary . . . . .	166.66
H. R. Scovill, salary.....	166.66
John A. Wessinger, sal- ary . . . . .	150.00
C. F. Hartman, salary....	160.00
Julius Lohrke, salary....	125.00
Philip O'Hara, salary....	125.00
John Weber, salary.....	100.00
Marcia M. Minnis, salary.	115.00
Chas. Stoll, salary.....	100 00
Henrietta Disderide, sal- ary . . . . .	105.00
O. J. Warner, salary....	90 00
Jessie Crippen salary....	83 33
Florence Hallen salary..	83.33
Ned R. Smith, salary....	75.00
Frank Marz, salary.....	74 64
Elwin Ganzhorn salary.	50.00
Dorothy Wigh, salary..	24.00
Contingent Fund,	
Total salaries . . . . .	\$2 918.60

#### Fire Fund

Chas. Andrews, salary...\$ 95 16

Eugene Williams salary.	81.48
Ralph Edwards, salary...	81.48
Henry McLaren, salary..	77.65
Jacob Gwinner, salary...	77.65
Frank Markey, salary...	74.64
Herman Kruse, salary...	74.64
Emil Damman, salary...	74.64
Mat. Heininger, salary...	74.64
Floyd Naylor, salary....	74.64
Earl Arnold, salary.....	74.64
Fred Nordman salary...	74.64
Benj. Zahn, salary.....	74.64
Henry Nevroth, salary...	74.64
Raymond Gillespie, salary	74.64
Arthur Clark, salary....	74.64
Clyde Carpenter, salary..	74.64
John Comiskie, salary...	67.96
Arthur Luke, salary.....	67.96
Walter Fieldcamp salary	67.96
Chas. Carroll, salary.....	42.61

Fire Fund,  
total ½ month Jan....\$1,555.59

#### Police Fund

Thos. O'Brien, salary....\$	95.16
Jacob Andres, salary....	79.16
Wm. J. Aprill, salary....	74.64
Ed. Blumhardt, salary...	74.64
Frank Keihl, salary.....	74.64
Marland Howard, salary.	74.64
Chas. Splitt, salary.....	74.64
Joseph Gast, salary.....	74.64
Geo. Randel, salary.....	74.64
Louis Fohey, salary.....	74.64
Chas. Kapp, salary.....	74.64
John Osborn, salary.....	74.64
Carl Arnold, salary.....	74.64
Glen Sheldon, salary....	67.96

Police Fund,  
total ½ month Jan....\$1,063.32

#### Poor Fund

John Skadford, salary...\$	50.00
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#### Cemetery Fund

Herman Zulz, salary.....\$	95.00
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#### Park Fund

E. A. Gallup, salary.....\$	208.33
Henrietta Disderide, sal- ary . . . . .	10.00
Park Fund, total salaries . . . . .	\$ 218.33

#### Water Works Fund

Geo. S. Vandawarker, sal- ary . . . . .	\$ 208.33
Leslie Bush, salary.....	192.50
Dr. H. Emerson, salary..	50.00
E. Cornell, salary.....	10.00
Geo. Mann, salary.....	20.00
John Lindenschmitt, sal- ary . . . . .	20.00

Wirt Cornwell salary....	20.00
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Total monthly salaries..\$ 520.83

Harry Willsher, salary...\$	64.62
Emanuel Sodd, salary....	77.55
Fred Linde, salary.....	68.75
Robt. Lowe, salary.....	51.70
Robt. Young, salary.....	48.47
A. E. Hawkes, salary....	55.00
Cliff Shetterly, sala y....	77.55
Louise Malloy, salary....	55.00
Wm. Groves, salary.....	55.00
J. C. Ledwidge, salary...	50.00

Total semi-  
monthly salaries . . . . . \$ 603.64

Water Works,  
total salaries . . . . . \$1,124.47

### CONTINGENT FUND

#### Municipal Garage

The Detroit Edison Co., light . . . . .	\$ 4 10
The Bowman-Gould Co., supplies . . . . .	1.77
Cummings Bros, supplies.	2.86
The Artificial Ice Co., supplies . . . . .	5 50
Federal Motor Truck Co., supplies . . . . .	31.41
Jno. C. Fischer Co., sup- plies . . . . .	.20
The Michigamua Oil Co., supplies . . . . .	71.41
Muehlig & Schmid, sup- plies . . . . .	5 94
Fried J. Williams, supplies	4.25
E. M. Wurster, supplies..	.60
Ann Arbor Auto Top Co., repairs . . . . .	1 10
Monson Pattern & Ma- chine Co., repairs.....	3.80

Municipal Garage total.\$ 132.94

#### Engineer Department

Jim Acqui, services.....\$	15.00
H. H. Barlett, services...	75.00
C. W. Blashill, services..	75.00
H. J. Colver, services....	82.50
V. W. McAdam, services..	117.00
W. L. Rye, services.....	75.00
Fred Schmid, services...	20.00

Total Engineer Dept..\$ 459.50

Washtenaw Gas Co., city hall . . . . .	\$ 2.30
The Detroit Edison Co., city hall . . . . .	50.15
Besch & Gutekunst, col- lecting garbage . . . . .	1 273 33
J. F. Adams, M. D., ser- vices . . . . .	14 00

Edwin C. Ganzhorn, M D., services .....	1.00
Continental Mfg. Co., sup- plies .....	33.90
Eugene Dietzgen Co., supplies .....	10.31
Feuffel & Esser Co., sup- plies .....	21.37
Sam C. Andres, supplies.	.90
Jno. C. Fischer Co., sup- plies .....	.25
D. J. Malloy, supplies....	9.50
The Mayer-Schairer Co., supplies .....	9.50
Mich. Milling Co., supplies	4.92
Geo. Wahr, supplies.....	3.25
Weinmann - Geisendorfer Co., supplies .....	1.00
E. M. Wurster, supplies.	63.15
City of Ann Arbor Muni- cipal Garage (Eng. Dept.) .....	67.28
Holland. Ackerman & Holland, blue prints...	3.79
Davis & Ohlinger, print- ing .....	9.25
Burroughs Adding Ma- chine Co., attention to machine .....	10.03
Geo. Randel, repairs....	7.50
R. A. Steward, repairs...	2.15
John Volz & Son, repairs.	2.75
Weissinger Sign Works, lettering .....	7.00
Chas. Henning, labor, dumping ground .....	54.00
Geo. H. Sandenburgh, ex- penses paid .....	27.00
Total supplies, etc.....	\$1,689.58
Contingent Fund total.	
including salaries ...	\$5,200.62

**Fire Fund**

Washtenaw Gas Co light. (2 months) .....	\$ 14.52
The Detroit Edison Co., light (2 months).....	25.92
Banner Laundering Co., laundry .....	7.20
White Swan Laundry Co., Ltd., laundry .....	14.02
Sam C. Andres, supplies .	5.00
Ann Arbor Garage, sup- plies .....	2.00
Ernst Bros. Electric Shop, supplies .....	.71
The Michigamua Oil Co., supplies .....	56.60
B. E. Muehler supplies..	15.00
Schumacher Hardware Co., supplies .....	4.90
Staebler & Co. supplies..	1.00
Wolf & Colvin, supplies..	.75

Auto Tire & Repair Co., repairs .....	.50
Total supplies, etc.....	148.12
Fire Fund total, including salaries ...	\$1,703.71

**Police Fund**

Mich. State Tel. Co., tolls .....	\$ 5.00
The Western Union Tele- graph Co., telegram...	.81
Stofflet News Co., sub- scriptions .....	16.80
Jno. C. Fisher Co., sup- plies .....	.60
E. G. Hoag, supplies....	.60
Reule, Conlin & Co., sup- plies .....	5.50
Schumacher Hardware Co., supplies .....	62.50
Geo. Wahr, supplies.....	1.20
City of Ann Arbor Muni- cipal Garage, supplies and repairs .....	13.67
City of Ann Arbor, Street Fund, installing signals	53.23
Ernst Bros. Electric Shop, wiring signals .....	44.46
Service Sign Shop signs.	8.00
Ann Arbor Typewriter Exchange, repairs .....	.75
John Volz & Son repairs	1.20
Total supplies, etc.....	\$ 214.32
Police Fund total, including salaries....	\$1,277.64

**Poor Fund**

Wurster Bros. supplies..	\$ 12.93
City Taxi & Baggage Line, ambulance .....	5.00
Mayer-Schairer Co., sup- plies .....	8.00
Varsity Laundry Co., laun- dry .....	10.00
Total supplies, etc.....	\$ 35.93
Poor Fund total, including salary .....	\$ 85.93

**Cemetery Fund**

A. M. Spathelf, supplies..	\$ .64
Cemetery Fund total including salary .....	\$ 95.64

**Street Lighting Fund**

The Detroit Edison Co., light, etc. ....	\$1,932.60
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**Water Fund**

Ann Arbor Water Works Dept., general services.	\$2,387.56
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**Water Works Fund**

The A. P. Smith Mfg. Co., supplies . . . . .	\$ 3.50
The Foxboro Co., Inc., supplies . . . . .	7.40
The Athens Press, supplies	.28
Davis & Ohlinger, sup- plies . . . . .	4.50
Schumacher Hardware Co., supplies . . . . .	1.90
Washtenaw Gas Co., sup- plies . . . . .	6.90
Mich. State Prison Indus- tries . . . . .	2.60
J. F. Riehm, supplies....	1.40
Washtenaw Electric Shop, supplies . . . . .	48.08
Geo. Wahr, supplies . . . .	3.35
City of Ann Arbor Street Fund, supplies . . . . .	228.08
Hutzel & Co., services... .	7.00
N. A. Ottmar, garage rent	5.00
W. H. Butler, insurance..	40.50
Cole & Huss, insurance..	40.50
City Treasurer, renewal and replacement exp..	1,500.00
Water Works Dept. ex- penses. . . . .	3.39
<b>Total supplies, etc.....</b>	<b>\$1,932.12</b>
A. Gerstler, labor . . . . .	\$ 79.20
L. Gerrick, labor . . . . .	79.20
<b>Total labor . . . . .</b>	<b>\$ 158.40</b>
<b>Water Wks. Fund total, including salaries . . .</b>	<b>\$3,214.99</b>

**Park Fund**

Fred Briggs, labor.....	\$ 50.40
Ezra Moore, labor.....	57.00
Gottlob Schmid, labor...	36.45
Fred Sadt, labor.....	27.50
Ed. Freeland, team.....	13.00
<b>Total labor . . . . .</b>	<b>\$ 184.35</b>
Jno. C. Fischer Co., sup- plies . . . . .	\$ 1.00
Schumacher Hardware Co., supplies . . . . .	1.65
Geo. Wahr, supplies.....	.85
Edward Kline, carpenter work . . . . .	71.70
<b>Total supplies, etc.....</b>	<b>\$ 75.20</b>
<b>Park Fund total, including salaries . . .</b>	<b>\$ 477.88</b>

**Street Fund**

L. G. Bird, labor.....	\$ 79.20
Mike Costello, labor.....	68.00
Fred Hanselman, labor..	83.60
Emanuel Holzappel, labor	24.00
Carl Janke, labor.....	20.55

Sam. Kalmbach, labor..	6.50
Fred Malke, labor.....	22.20
James Mason, labor.....	83.60
El. Roehm, labor.....	3.60
Carl Seeger, labor.....	14.40
Martin Walsh, labor....	44.00
John Wendland, labor...	16.45
John Herrst, team.....	7.12
Carl Rehberg, team.....	3.56
Jacob Young team.....	21.34
<b>Total labor . . . . .</b>	<b>\$ 498.12</b>
Theo. F. Lane, services..	\$ 17.00
W. H. Anderson Tool & Supply Co., supplies...	1.76
Elgin Street Sweeper Co., supplies . . . . .	106.50
Jno. C. Fischer Co., sup- plies . . . . .	1.40
Hertler Bros., supplies...	65.94
D. J. Malloy, supplies...	60.00
Henry S. Platt, supplies..	14.24
Schumacher Hardware Co., supplies . . . . .	9.00
Robert Blaess, hay.....	37.50
David A. Killins & Sons, gravei . . . . .	324.00
City of Ann Arbor Muni- cipal Garage, supplies and repairs . . . . .	107.18
Beranek & Martin, repairs	9.50
William Hochrein, repairs	3.28
Wolf & Colvin, repairs, etc. . . . .	18.45
Michigan Central R. R., freight . . . . .	1.07
Ann Arbor Railroad Co., demurrage . . . . .	2.00
A. J. Paul, expenses pail.	40.44
<b>Total supplies, etc.....</b>	<b>\$ 819.26</b>
<b>Street Fund total.....</b>	<b>\$1,317.38</b>

**Recapitulation**

Contingent . . . . .	\$ 5,200.62
Fire . . . . .	1,703.71
Police . . . . .	1,277.64
Poor . . . . .	85.93
Cemetery . . . . .	95.64
Street Lighting . . . . .	1,932.60
Water . . . . .	2,387.56
Water Works . . . . .	3,214.99
Park . . . . .	477.88
Street . . . . .	1,317.38
<b>City Funds total.....</b>	<b>\$17,693.95</b>

Ann Arbor, Mich., Feb. 5, 1923.  
To the Finance Committee of  
the Common Council.

Gentlemen: I have examined the  
foregoing accounts against the City

of Ann Arbor and I hereby certify that they are correct to the best of my knowledge.

ISAAC G. REYNOLDS,  
City Clerk.

To the Honorable,  
the Common Council.

Gentlemen: Your Finance Committee has reviewed the foregoing report. Warrants for salaries were drawn Feb. 1, 1923. We recommend that same be approved and that warrants be ordered drawn for foregoing accounts.

ALBERT D. GROVES,  
ROBERT NORRIS,  
MARK B. SUGDEN,  
Finance Committee.

Ald. Groves moved the adoption of report, which was adopted by following vote: Yeas, Ald. Johnson, Haarer, Graf, Henderson, Lucas, Groves, Moore, Spathelf, White, Freeman, Norris, Pres. Sugden, 12. Nays, none.

To the Honorable, the Common Council,  
Gentlemen:

Your Finance Committee, to whom was referred the matter of Workmen's Compensation insurance, respectfully recommends that the policy with The Fidelity & Casualty Company of New York, which expires May 10th, 1923 be cancelled under date of January 31st, 1923, and said company be authorized to issue a new policy for the year beginning February 1st, 1923; that being the fiscal year for the city and the period covered by policy for employees of the Water Department.

Respectfully submitted,  
Robert Norris,  
A. D. Groves,  
Mark B. Sugden,  
Finance Committee.

Ald. Groves moved the adoption of report, which was adopted by following vote: Yeas, Ald. Johnson, Haarer, Graf, Henderson, Lucas, Groves, Moore, Spathelf, White, Freeman, Norris, Pres. Sugden, 12. Nays, none.

### Sewer Committee Report

To the Honorable, the Common Council,  
Gentlemen:

Your Sewer Committee respectfully recommends that a lateral sewer be constructed on Medallion street from Oswego street to Onondaga street, and that the City Engineer be instructed to prepare plans, specifications and estimate of

cost for said lateral sewer; and that the construction of said sewer is hereby deemed and declared to be a necessary public improvement.

Respectfully submitted,

E. E. Lucas,  
Alfred H. White,  
W. S. Moore,  
Geo. L. Haarer,  
Mark B. Sugden,  
Sewer Committee.

Ald. Haarer moved the adoption of report, which was adopted by following vote: Yeas, Ald. Johnson, Haarer, Graf, Henderson, Lucas, Groves, Moore, Spathelf, White, Freeman, Norris, Pres. Sugden, 12. Nays, none.

### Lighting Committee

Ald. Johnson, Chairman of Lighting Committee, presented a communication from The Detroit Edison Company proposing to furnish service to traffic lights at \$1.00 per month for each connection.

Moved by Ald. Johnson, that proposal be accepted.

Adopted by following vote: Yeas, Ald. Johnson, Haarer, Graf, Henderson, Lucas, Groves, Moore, Spathelf, White, Freeman, Norris, Pres. Sugden, 12. Nays, none.

### Officers' Reports

Report of Acting Marshal for month of January received and ordered on file. The annual report of the Board of Public Works consisting of annual reports of City Engineer and Street Commissioner were presented and on motion of Ald. Henderson, ordered printed in minutes.

### City Engineer's Annual Report

Ann Arbor, Michigan,  
January, 10, 1923.

To the Board of Public Works,  
Ann Arbor, Michigan,  
Gentlemen:

I submit herewith a detailed report of the work done in my department during the year 1922.

Very respectfully submitted,

GEO. SANDENBURGH,  
City Engineer.

### PAVING

Four streets were paved during the season of 1922. District No. 48, North State Street, from Huron Street to Fuller Street. District No. No. 49, Hill Street from Packard Street to Washtenaw Avenue. District No. 50, Packard Street from Granger Avenue to the City Limits. District No. 51, Cross Street, from Packard Street to Division Street.

## SUMMARY OF PAVE

Street and Limits	District	Width	Type of Surface	Base	Sq. yds. Pavement
State St.					
Huron St. to King. St.	48	34	Sheet asphalt	6" concrete	4,962
Kingsley St. to Fuller St.	..	..	Brick	6" concrete	3,423
Packard to E. Univ.	..	30			
*Hill St. to E. U. to Ch.	49	34	Sheet asphalt	6" concrete	11,806
Church to Hall's	..	38			
Packard St.					
Granger Av. to City Lts.	50	38	Sheet asphalt	6" concrete	5,602
Cross St.					
Packard St. to Div. St.	51	19	Concrete	7" concrete	811
Totals	..	..			26,604

Gutter is included in "Sq. yds. Pavement."

\*Pavement is 30 ft. wide from Hall's to Washtenaw Ave.

The North State Street pavement is a sheet asphalt pavement on a six inch concrete base from Huron Street to the south line of Kingsley Street and a four inch vitrified brick pavement on a six inch concrete foundation from the south side of Kingsley Street to Fuller Street. The joints in the brick pavement are filled with an asphalt cement filler.

The Hill Street pavement is a three inch sheet asphalt pavement on a six inch concrete base.

The Packard Street pavement is a three inch sheet asphalt pavement on a six inch concrete base.

The Cross Street pavement is a seven inch two course concrete pavement.

A tabulated list of the total cost and the distribution of cost of each district is given below:

#### District No. 48—North State St. Pavement, Huron to Fuller:

Contractor: Ann Arbor Asphalt Construction Co.	
Contract cost	\$28,335.33
Engineering and contingencies	846.12
Inspection	513.94
Labor and materials for drainage	150.09
Monument castings	78.00

Total cost	\$29,923.48
City share	11,571.52
Property share	18,351.96

#### District No. 49—Hill Street Pavement, Packard Street to Washtenaw Avenue:

Contractor: Ann Arbor Asphalt Construction Co.	
Contract cost	\$33,319.51
Engineering and contingencies	983.55
Inspection	698.87
Labor and materials for drainage	303.64
Monument castings	78.00

Total cost	\$35,383.57
City share	12,053.54
Property share	23,330.03

#### District No. 50—Packard Street Pavement, Granger Avenue to City Limits:

Contractor: Ann Arbor Asphalt Construction Co.	
Contract cost	\$15,778.03
Engineering and contingencies	729.91
Inspection	315.21
Materials for drainage	293.77
Monument castings	13.00

Total cost	\$17,119.92
City share	6,963.66
Property share	10,156.26

#### District No. 51—Cross Street Pavement, Packard Street to South Division:

Built by City Force Account	
Engineering	\$ 17.91
Superintendence	75.00

**MENTS BUILT IN 1922**

Lin. ft. Curb	Cost of Excavation	Total Cost	City's Share	Property's Share	Total Cost per sq. yd.	Cost Pave. Only Per sq. yd.
4,032	\$1,660.72	\$29,923.48	\$11,571.52	\$18,351.96	.....	\$2.51
.....	.....	.....	.....	.....	.....	3.79
4,956	1,946.16	35,383.57	12,053.54	23,330.03	\$3.00	2.51
2,832	961.92	17,129.92	6,963.66	10,166.26	3.06	2.51
748	.....	1,925.32	385.06	1,540.26	2.73	.....
<b>13,568</b>	<b>.....</b>	<b>\$84,362.29</b>	<b>30,973.78</b>	<b>53,388.51</b>	<b>.....</b>	<b>.....</b>

Gravel . . . . .	267.46
Cement . . . . .	666.77
Labor . . . . .	671.38
Miscellaneous supplies ..	14.28
Expansion joint . . . . .	9.50
City team, 5 days at \$8.	40.00
Template . . . . .	13.02
Depreciation of machinery . . . . .	150.00

Total cost . . . . .	\$ 1,925.32
City share . . . . .	385.06
Property share . . . . .	1,540.26

**CURB AND GUTTER**

During the season of 1922 more curb and gutter was constructed than has been constructed up to this time. The curb and gutter was constructed of washed sand and gravel, the core being of 1:2:4 mix and the top a 1:2 mix. The gutter is eighteen inches wide and the curb face is six inches high.

A tabulated list of the costs and the distribution of costs is given below:

**District No. 24—Wells Street, Packard to Forest Av.:**  
Not constructed.

**District No. 25—Willard St., Forest to Church St.:**

Contractor: Michigan Construction Co.	
Contract cost . . . . .	\$ 635.80
Engineering and contingencies . . . . .	36.18

Inspection . . . . .	17.31
Sewer work . . . . .	52.36
Total cost . . . . .	\$ 741.65
City share . . . . .	393.91
Property share . . . . .	347.74

**District No. 26—N. Seventh St., Miller to Huron St.:**

Contractor: Michigan Construction Co.	
Contract cost . . . . .	\$ 2,890.85
Sewer work . . . . .	93.30
Engineering and contingencies . . . . .	153.60
Inspection . . . . .	50.18

Total cost . . . . .	\$ 3,187.93
City share . . . . .	1,719.64
Property share . . . . .	1,468.29

**District No. 27—S. Seventh St., Huron to Madison St.:**

Contractor: Michigan Construction Co.	
Contract cost . . . . .	\$ 5,103.41
Engineering and contingencies . . . . .	287.06
Inspection . . . . .	104.39
Sewer work . . . . .	247.38

Total cost . . . . .	\$ 5,742.24
City share . . . . .	3,060.12
Property share . . . . .	2,682.12

**District No. 28—Forest Ave., Cambridge to Wells St.:**  
Not constructed.

**District No. 29—First St., Jefferson St. to William St.:**

Contractor: Michigan Construction Co.

Contract cost .....	\$ 1 218.05
Engineering and contingencies .....	72.41
Inspection .....	11.51
Sewer work .....	15.89
<hr/>	
Total cost .....	\$ 1,317.89
City share .....	716.82
Property share .....	601.07

**District No. 30—Third St., Washington St. to Liberty St.:**

Contractor: Michigan Construction Co.

Contract cost .....	\$ 1,051.45
Engineering and contingencies .....	68.03
Inspection .....	11.93
<hr/>	
Total cost .....	\$ 1,131.41
City share .....	627.77
Property share .....	503.64

**District No. 31—W. Kingsley St., Main St. to First St.:**

Contractor: Patrick Ryan Jr.

Contract cost .....	\$ 1,013.98
Engineering and contingencies .....	69.66
Inspection .....	10.00
<hr/>	
Total cost .....	\$ 1,093.64
City share .....	591.45
Property share .....	502.19

**District No. 32—N. Ashley St., Miller Ave. to Felch St.:**

Contractor: Patrick Ryan, Jr.

Contract cost .....	\$ 2,006.75
Engineering and contingencies .....	103.36
Inspection .....	42.47
Sewer work .....	6.90
<hr/>	
Total cost .....	\$ 2,159.48
City share .....	1,190.52
Property share .....	968.96

**District No. 33—Maynard St., William to Jefferson St.:**

Contractor: Patrick Ryan, Jr.

Contract cost .....	\$ 1,007.55
Engineering and contingencies .....	42.53
Inspection .....	15.65
Sewer work .....	79.67
<hr/>	
Total cost .....	\$ 1,145.40
City share .....	593.96
Property share .....	551.44

**District No. 34—Crest Ave. Huron St. to end:**

Contractor: Michigan Construction Co.

Contract cost .....	\$ 2,006.85
Engineering and contingencies .....	110.15
Inspection .....	36.15
Sewer work .....	124.12
<hr/>	
Total cost .....	\$ 2,277.27
City share .....	1,193.71
Property share .....	1 083.56

**District No. 35—White St., Arch St. to McKinley St.:**

Contractor: Patrick Ryan, Jr.

Contract cost .....	\$ 780.84
Engineering and contingencies .....	40.23
Inspection .....	14.42
Sewer work .....	79.69
<hr/>	
Total cost .....	\$ 915.11
City share .....	477.68
Property share .....	437.43

**District No. 36—Brookwood Place:**

Contractor: Patrick Ryan, Jr.

Contract cost .....	\$ 986.45
Engineering and contingencies .....	66.07
Inspection .....	28.85
<hr/>	
Total cost .....	\$ 1 081.37
City share .....	573.72
Property share .....	507.65

**District No. 37—Ingalls and Lawrence Sts., Catherine to Lawrence to Thayer St.:**

Contractor: Patrick Ryan, Jr.

Contract cost .....	\$ 1 014.90
Engineering and contingencies .....	83.75
Inspection .....	29.06
<hr/>	
Total cost .....	\$ 1,127.71
City share .....	631.03
Property share .....	496.68

**District No. 38—Washington St., Ashley to Revena Blvd.:**

Contractor: Michigan Construction Co.

Contract cost .....	\$ 7,707.41
Engineering and contingencies .....	413.37
Inspection .....	94.07
Sewer work .....	534.51
<hr/>	
Total cost .....	\$ 8,749.36
City share .....	4 866.54
Property share .....	3,882.82



**District No. 39—Third St., Liberty to Mosley St.:**

Contractor: Michigan Construction Co.	
Contract cost	\$ 4,246.45
Engineering and contingencies	208.40
Inspection	133.25
Sewer work	350.96
<hr/>	
Total cost	\$ 4,939.06
City share	2,702.08
Property share	2,236.98

**District No. 40—Wilmot St., Wash-tenaw Ave. to Elm St.:**

Contractor: Michigan Construction Co.	
Contract cost	\$ 1,292.85
Engineering and contingencies	71.82
Inspection	17.31
Sewer work	12.10
<hr/>	
Total cost	\$ 1,394.08
City share	742.72
Property share	651.36

**District No. 41—Murray Ave., Liberty to Washington St.:**

Contractor: Michigan Construction Co.	
Contract cost	\$ 1,379.55
Engineering and contingencies	99.21
Inspection	11.69
Sewer work	155.08
<hr/>	
Total cost	\$ 1,645.53
City share	872.37
Property share	773.16

**District No. 42—Fountain St., Felch to Hiscock St.:**

Contractor: Patrick Ryan, Jr.	
Contract cost	\$ 633.00
Engineering and contingencies	34.05
Inspection	19.27
<hr/>	
Total cost	\$ 686.32
City share	360.18
Property share	326.14

**District No. 43—Ann St., State to Division St.:**

Contractor: Patrick Ryan, Jr.	
Contract cost	\$ 1,342.80
Engineering and contingencies	41.42
Inspection	52.50
<hr/>	
Total cost	\$ 1,436.72
City share	739.07

Property share ..... 697.65

**District No. 44—Forest Ave., Cambridge to Hill St.:**

Contractor: Michigan Construction Co.	
Contract cost	\$ 1,710.20
Engineering and contingencies	73.43
Inspection	38.66
Sewer work	44.32
<hr/>	
Total cost	\$ 1,866.61
City share	1,016.87
Property share	849.74

**District No. 45—S. Division St., Madison to Cross St.:**

Contractor: Patrick Ryan, Jr.	
Contract cost	\$ 1,096.98
Engineering and contingencies	65.65
Inspection	14.56
<hr/>	
Total cost	\$ 1,177.19
City share	663.37
Property share	513.82

**District No. 46—Walnut St., S. University to Geddes Ave.:**

Contractor: Michigan Construction Co.	
Contract cost	\$ 1,195.10
Engineering and contingencies	86.25
Inspection	17.01
Sewer work	17.81
<hr/>	
Total cost	\$ 1,316.17
City share	722.46
Property share	593.71

**District No. 47—Oxford Rd., Hill to Wash-tenaw Ave.:**

Contractor: Michigan Construction Co.	
Contract cost	\$ 1,113.50
Engineering and contingencies	157.04
Inspection	24.74
Drainage	50.84
<hr/>	
Total cost	\$ 1,346.12
City share	772.83
Property share	573.29

**District No. 48—Hill St., Packard to Main St.:**

Contractor: Patrick Ryan, Jr.	
Contract cost	\$ 3,530.60
Engineering and contingencies	205.92
Inspection	65.49
<hr/>	
Total cost	\$ 3,802.01

## SUMMARY OF CURBS AN

STREET AND LIMITS	District No	Length	Total Cost
Wells St., Packard St to Forest Av. ....	24		
Willard St., Forest Av. to Church St. ....	25	664	\$ 741.65
N. 7th St., Miller Ave. to Huron St. ....	26	3,133	3,187.93
S. 7th St., Huron St. to Madison St. ....	27	5,389	5,742.24
Forest Av., Camb. Rd to Wells St. ....	28		
1st St, Jeff. St. to William St. ....	29	1,312	1,317.89
3rd St., Washington St. to Lib. St. ....	30	1,118	1,131.41
Kingsl y, Main St to First St. ....	31	1,069	1,093.64
Ashley St. Miller Av to Felch St. ....	32	2,126	2,159.48
Maynard St, William St. to Jeff. St. ....	33	1,064	1,145.40
Crest Av., Huron St. to End. ....	34	2,115	2,277.27
White St., Arch St. to McKin. Av. ....	35	706	915.11
		*218	
Brookwood Pl., Packard St. to End. ....	36	1,042	1,081.27
Ingalls St., Catherine St. to Law St.			
Lawrence St., Ingalls St. to Thayer			
St. ....	37	1,035	1,127.71
Washington St., Ashley St. to Ra-			
vena Blvd. ....	38	8,156	8,749.36
Third St., Liberty St to Mosl y St. ....	39	4,350	4,939.06
Wilmot St., Washtenaw Ave. to			
Elm St. ....	40	1,354	1,394.08
Murray Ave., Washington St. to			
Liberty St. ....	41	1,433	1,645.53
Fountain St., Felch St. to Hiscock			
St. ....	42	662	686.32
Ann St. State St. to Division St. ....	43	1,408	1,436.72
Forest Ave., Cambridge Rd to Hill. ....	44	1,861	1,866.61
Division St., Madison St. to Cross St. ....	45	1,117	1,177.19
Walnu St., Geddes Av. to S U Av. ....	46	1,219	1,316.17
Oxford Rd., Hill St. to Washtenaw			
Ave. ....	47	1,251	1,346.12
Hill St., Packard St., to Main St. ....	48	3,735	3,802.01
Mich. Av., Wells St. to E. Univ. Av. ....	49	1,751	1,734.52
Totals . . . . .	..	49,130	\$52,014.80

\*Gutter only.

City share . . . . . 2,077.10  
 Property share . . . . . 1,724.91

**District No. 49—Michigan Ave., E. University to Wells St.:**

Contractor: Patrick Ryan, Jr.  
 Contract cost . . . . . \$ 1,665.99  
 Engineering and contin-  
 gencies . . . . . 54.03  
 Inspection . . . . . 14.51

Total cost . . . . . \$ 1,734.53  
 City share . . . . . 894.28  
 Property share . . . . . 840.25

## STORM SEWERS

A monolithic concrete and re-enforced concrete pipe sewer was constructed on Woodlawn Ave., Packard St., Wells St. and Forest Ave., as far as Cambridge Road. This sewer was constructed to relieve the flooded condition at Cambridge Road and Forest Ave. and at Church St. and Roosevelt Ave.

Small vitrified pipe sewers were also constructed on Brooks St., Broadway, South Fourth Ave.,

**D GUTTERS BUILT IN 1922**

City to Pay	Property to Pay	Amount of Contract	Cost per ft.	Contractor
(No. Completed)				Michigan Const. Co.
\$ 393.91	\$ 347.74	\$ 635.80	\$1.12	Michigan Const. Co.
1,719.64	1,468.29	2,890.85	1.02	Michigan Const. Co.
3,060.12	2,682.17	5,103.41	1.06	Michigan Const. Co.
(Not Completed)				Michigan Const. Co.
716.82	601.07	1,218.05	1.00	Michigan Const. Co.
627.77	503.64	1,051.45	1.01	Michigan Const. Co.
591.45	502.19	1,013.98	1.02	Patrick Ryan, Jr.
1,190.52	968.96	2,006.75	1.01	Patrick Ryan, Jr.
593.96	551.44	1,007.55	1.07	Patrick Ryan, Jr.
1,193.71	1,083.56	2,006.85	1.08	Michigan Const. Co.
477.68	437.43	780.84	1.12	Patrick Ryan, Jr.
573.72	507.65	986.45	1.04	Patrick Ryan, Jr.
631.03	496.68	1,014.90	1.03	Patrick Ryan, Jr.
4,866.54	3,882.82	7,707.41	1.07	Michigan Const. Co.
2,702.08	2,236.98	4,246.45	1.13	Michigan Const. Co.
742.72	651.36	1,292.85	1.03	Michigan Const. Co.
872.37	773.16	1,379.55	1.15	Michigan Const. Co.
360.18	326.14	633.00	1.04	Patrick Ryan, Jr.
739.07	697.65	1,342.80	1.02	Patrick Ryan, Jr.
984.04	882.57	1,710.20	1.00	Michigan Const. Co.
663.37	513.82	1,096.98	1.05	Patrick Ryan, Jr.
722.46	593.71	1,195.10	1.07	Michigan Const. Co.
772.83	573.29	1,113.50	1.08	Michigan Const. Co.
2,077.10	1,724.91	3,530.60	1.02	Patrick Ryan, Jr.
894.28	840.25	1,665.99	.99	Patrick Ryan, Jr.
<u>\$28,167.37</u>	<u>\$23,847.48</u>	<u>\$46,631.31</u>	....	

South Division St. and from Dexter Ave. to the County Drain. 72 lin. ft. 36 in. conc. pipe .... \$259.20

A tabulated list of the total costs of each storm sewer is given below: 36 lin. ft. 10 in. C. I. pipe..... 46.51

Woodlawn, Packard, Wells, Forest Ave. Storm Sewer: 135 lin. ft. 4 in. C. I. pipe, caulked 112.88

Contractor: Bartling and Dull. 174 lin. ft. 4 in. vit. pipe ..... 21.75

Contract cost ..... \$29,181.66 2 4-in curves.... 1.00

Engineering and contingencies ..... 305.88 2 4-in ells..... 1.00

Inspection ..... 890.79 200 brick ..... 4.30

Material furnished by City: 1 inlet ..... 16.00

5 24-in. vit. pipe. 14.40

Cement ..... 5.20

Gal. disks . . . . .	.30	482 54	400 lin. ft. 15 in. pipe...\$	216.00
			174 lin. ft. 12 in. pipe...	93.87
Total cost . . . . .		\$30,860.87	96 lin. ft. 10 in. pipe....	30.24
<b>Brooks St. Storm Sewer, Pearl St. to Miller Ave.:</b>			6 12-in. elbows.....	9.72
Contract cost . . . . .	\$ 4,574.74		Lime and cement.....	6.65
Engineering and contin- gencies . . . . .	68.89		2 M. H. rings and covers	24.00
Inspection . . . . .	178.06		6 inlets . . . . .	96.00
			1000 brick (City yard)..	20.00
Total cost . . . . .	\$ 4,821.69		Labor, St. Comm. report.	241.71
<b>Broadway Storm Sewer, Traver Creek to Jones St.:</b>			Unloading pipe . . . . .	10.40
Built by City Force Acct.			Superintendence . . . . .	25.00
			Engineering . . . . .	3.69
			<b>Total cost . . . . .</b>	<b>\$ 777.28</b>

17 **SUMMARY OF STORM**

STREETS AND LIMITS	Size of Main	Length of Main	Length of Inlet Connections	INLETS		
				Regular	Alley	Special
Golden Ave.	H 3'.5	.....	.....	..	..	..
Granger to Woodlawn.....	.....	823	.....	..	..	..
Woodlawn Ave.						
Golden to Packard.....	H 3'.5	.....	.....	..	..	..
Packard St.						
Woodlawn to Wells.....	42	520	.....	..	..	..
Wells St.						
Packard to Michigan.....	42	.....	376	11	..	..
Wells St.						
Michigan to Forest.....	48	1268	.....	..	..	..
Forest Ave.						
Wells to Cambridge .....	48	.....	.....	..	..	..
Brooks St						
Miller to Hiscock .....	22	459	.....	..	..	..
Brooks St.						
Hiscock to 200 ft. N. Pearl.....	15	1170	222	10	..	..
Brooks St.						
200 ft. N. Pearl to end Spring Hill	12	500	.....	..	..	..
Fourth Ave.						
Alley to Washington .....	12	.....	.....	..	..	..
Broadway						
Jones to Trover Creek.....	12	370	300	6	..	..
S Division St., Cross St.						
Hill St. to angle in Cross St...	12	113	.....	7	..	..
Totals . . . . .	..	5948	898	34	..	..

**Fourth Ave. Storm Sewer, Wash- Division and Cross St. Storm  
ington St. north 132 feet: Sewer:**

Built by City Force Acct.		Built by City Force Acct.	
12 in. sewer pipe.....\$	106.05	Sewer pipe .....	\$ 426.19
Cement and lime.....	5.80	Cast iron inlets.....	176.00
Sand .....	2.25	Manhole rings and covers	48.00
Brick .....	6.00	Brick .....	19.50
Labor .....	106.65	Cement and lime.....	24.30
Manhole ring and cover.	12.00	Sand .....	2.00
Engineering .....	1.69	Kerosene .....	.52
Superintendence .....	20.00	Sharpening picks .....	5.85
Relaying pavement .....	65.50	Labor .....	329.12
<b>Total cost .....</b>	<b>\$ 325.94</b>	Engineering and super-	

**SEWERS BUILT IN 1922**

Manholes	Total Cost	Amount of Contract	5 Per. Retained	When Due	Contractor
..	.....	.....	.....	.....	.....
..	\$30,860.87	\$29,181.66	\$1,441.64	12-19-23	Bartling & Dull
..	.....	.....	.....	.....	.....
..	.....	.....	.....	.....	.....
..	.....	.....	.....	.....	.....
10	.....	.....	.....	.....	.....
..	.....	.....	.....	.....	.....
..	.....	.....	.....	.....	.....
..	.....	.....	.....	.....	.....
8	4,821.69	4,574.74	228.73	12-19-23	Patrick Ryan, Jr.
..	.....	.....	.....	.....	.....
1	325.94	.....	.....	.....	City Force Account
2	777.28	.....	.....	.....	City Force Account
3	1,092.39	.....	.....	.....	City Force Account
<b>24</b>	<b>\$37,878.17</b>	<b>\$33,756.40</b>	<b>\$1,670.37</b>	.....	.....

intendence . . . . . 60.91 Total cost . . . . . \$ 168.48

Total cost . . . . . \$ 1,092.39

**Storm Sewer Dexter Ave. to County Drain:**

Material . . . . . \$ 108.48  
Labor . . . . . 60.00

**Storm Sewer Maintenance:**

This department has spent, during the year 1922, for the maintenance and cleaning of storm sewers, \$675.01; of this amount, \$468.97 was for labor and \$206.04 for material.

**5 Per Cent Retained:**

The five per cents (5%) retained on storm sewers completed during the year 1921 are listed below:

LOCATION	Amount Paid	Contractor
Seventh St., Creek to Malison . . . . .	\$ 186.55	Wm. Eddy & Son.
Alley B2N, B3E, Miller to Ann St. . . . .	33.14	Wm. Eddy & Son.
Depot, Fifth, Beakes and Fourth Ave. . . . .	934.51	Wm. Eddy & Son.
Wells St., Olivia to Lincoln Ave. . . . .	65.47	Sydney Gustin & Co.
Cambridge Rd., Baldwin to Washtenaw. . . . .	92.06	S. Gustin & Co.
<b>Total . . . . .</b>	<b>\$1,311.73</b>	

**SANITARY SEWERS**

A tabulated list of the costs and distribution of costs of each sanitary sewer district is given below:

**District No. 110—Shadford Road, Packard to Baldwin:**

Contractor: Watson & Nickoloff.  
City Force Acct, 1921 . . . \$ 65.31  
Contract cost . . . . . 1,399.20  
Engineering . . . . . 35.31  
Inspection . . . . . 57.83  
  
Total cost . . . . . \$ 1,557.65  
City share . . . . . 222.17  
Property share . . . . . 1,335.48

**District No. 111—Washington Hgts. Sanitary Sewer:**

Contractor: Ann Arbor Asphalt Const. Co.  
Not completed.  
Cost to date as follows:  
Contract cost . . . . . \$ 2,556.22  
Engineering and contingencies . . . . . 125.84  
Inspection . . . . . 66.87  
  
Total cost to date . . . . . \$ 2,748.93

**District No. 112—Miller Ave.-West Park Sub-Main:**

Contractor: Patrick Ryan, Jr.  
Contract cost . . . . . \$ 920.40  
Engineering and contingencies . . . . . 30.44  
Inspection . . . . . 41.67  
  
Total cost . . . . . \$ 1,002.51  
City share . . . . . 446.55  
Property share . . . . . 555.96

**District No. 113—John St. Sanitary Sewer:**

Contractor: Patrick Ryan, Jr.  
Contract cost . . . . . \$ 663.00  
Material furnished by city . . . . . 45.25  
Engineering and contingencies . . . . . 23.08  
Inspection . . . . . 23.15  
  
Total cost . . . . . \$ 754.48  
City share . . . . . 54.48  
Property share . . . . . 700.00

**District No. 114—Vinewood Blvd., Wayne to City Limits:**

Contractor: Rennie & Dibble.  
Contract cost . . . . . \$ 815.00  
Engineering and contingencies . . . . . 21.84  
Inspection . . . . . 38.68  
  
Total cost . . . . . \$ 875.52  
City share . . . . . 107.09  
Property share . . . . . 773.43

**District No. 115, Dexter Ave. Station 925 to City Limits:**

Contractor: Wm. Eddy & Son.  
Contract cost . . . . . \$ 3,768.05  
Engineering and contingencies . . . . . 57.04  
Inspection . . . . . 125.01  
  
Total cost . . . . . \$ 3,950.10  
City share . . . . . 278.01  
Property share . . . . . 3,672.09

**District No. 116—Charlton Ave., Virginia Ave., West 394 Feet:**

Contractor: Rennie & Dibble.  
Contract cost . . . . . \$ 564.75

Engineering and contingencies . . . . .	9.48
Inspection . . . . .	31.10
<b>Total cost . . . . .</b>	<b>\$ 605.33</b>
City share . . . . .	37.23
Property share . . . . .	568.10

**District No. 117—Abbott Ave. Virginia Ave., West 394 Feet:**

Contractor: Rennie & Dibble.

Contract cost . . . . .	\$ 551.75
Engineering and contingencies . . . . .	14.87
Inspection . . . . .	22.11

<b>Total cost . . . . .</b>	<b>\$ 588.73</b>
City share . . . . .	48.62
Property share . . . . .	540.11

**District No. 118—Krause St., Third to Murray Ave.:**

Contract cost . . . . .	\$ 795.96
Engineering and contingencies . . . . .	47.96
Inspection . . . . .	64.65

<b>Total cost . . . . .</b>	<b>\$ 908.57</b>
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City share . . . . .	628.39
Property share . . . . .	280.18

**Sanitary Sewer Maintenance:**

The care and maintenance of sanitary sewers during the year of 1922 has cost \$1,877.52; of this amount, \$1,571.76 is for labor and \$305.76 is for material. The work done under the maintenance of sanitary sewers has consisted of building new manholes and removing obstructions from existing sanitary sewers.

**Tapping Sanitary Sewers:**

The cost of tapping sanitary sewers has been \$20.84.

**Payments of the Five Per Cents Retained:**

The following is a tabulated list of amounts paid to the contractors during the year 1922 for work completed in 1921. The amount is five per cent of the contract cost, which was retained for one year:

Dist. No.	LOCATION	Amount Paid	Contractor
98	Soule Blvd., Maxwell to Elder . . . . .	\$ 69.58	S. Gustin & Co.
99	Fider Blvd. Buchanan to Soule . . . . .	79.42	S. Gustin & Co.
100	Lutz Ave., Elder to Eber White . . . . .	42.86	S. Gustin & Co.
101	Pontiac Rd., Moore to City Limits . . . . .	324.78	S. Gustin & Co.
103	Seventh St., Madison to Davis . . . . .	169.65	S. Gustin & Co.
104	Day St., Wayne to Berkshire . . . . .	48.14	Wm. Eddy & Son
105	Morton Ave., Packard to Baldwin . . . . .	114.69	Wm. Eddy & Son
106	Dexter Ave., pavement-west 450' . . . . .	56.32	Wm. Eddy & Son
107	Woodlawn Ave., Packard to Ingalls . . . . .	73.66	Wm. Eddy & Son
108	Sylvan Ave., Packard to White . . . . .	51.90	Wm. Eddy & Son
109	Dexter Ave. extension 300' . . . . .	37.14	Wm. Eddy & Son
<b>Total . . . . .</b>		<b>\$1,068.14</b>	

**Summary of Sanitary Sewer Districts**

A tabulated summary of sanitary sewer districts Nos. 110 to

118, inclusive, is given on the the following pages, with all information in regard to same:

## SUMMARY OF SANITARY

STREET AND LIMITS	District	No. of House Connections	Length of Main	Manholes	Flush Tanks	Total Cost	
Shauford Rd., Packard to Baldwin.....	110	26	794	2	0	\$1,557.65	\$
Washington Hgts., Observatory to End, 8 in.....	111	..	843	8	0	2,748.93	to
Washington Hgts., End to River, 10 in.....	111	..	1010	..	..	2,748.93	to
Miller Av.-West Park Sub. Main 7 h to Miller.....	112	..	439-12"	3	0	1 002.51	
Wildwood Ave, Dexter Av. North .....	...	..	265	0	1	450.00	
John St., Division to Fifth Av.....	113	16	464	2	1	754.48	
Vinewood Blvd, Wayne to City Limits.....	114	12	490	2	0	875.52	
Dexter Av., 9-25 to City Limits.....	115	34	1137	5	0	3,950.10	
Charlton Av., Virginia, West .....	116	14	420	2	0	605.33	
Abbott Ave., Virginia, West .....	117	13	414	2	0	588.73	
Krause St., Murray to Third .....	118	17	445	2	1	908.57	
Henry St., Golden to Packard.....	119						
Totals . . . . .	...	132	7495	28	3	\$13,441.82	\$1.

## HOUSING CODE

The year 1922 saw a great increase in building operations in the City of Ann Arbor. In all 699 permits were issued, this includes permits for new dwellings, garages and alterations to dwellings. There were 230 permits issued for new dwellings and the balance of the permits were for new garages and alterations. During the year 1921 449 permits were issued, of which 148 were for new dwellings and the balance for garages and alterations to existing dwellings. The year 1922 shows an increase of 82 new dwellings over 1921 and an increase of 350 permits over 1921.

The cost to the Engineering Department in handling the Housing Code has been \$815.37.

## Summary of Sewers, Pavements and Curb and Gutter:

The total cost of sewers and pavements built up to and including 1922 is divided as follows:

Pavements . . . . .	\$ 648,651.04
Curb and Gutter.....	92,049.09
Sanitary sewers .....	307,186.06
Storm sewers .....	258,085.81
Total . . . . .	\$1 305,972.00

The total cost of new pavements, curb and gutter and sewers completed in Ann Arbor to date is listed below, according to the year of completion:

Prior to 1900.....	\$ 176,616.21
1900 .....	28,372.81
1901 .....	3,704.93
1902 .....	36,850.85
1903 .....	34,229.39
1904 .....	5,024.40
1905 .....	18,744.79
1906 .....	12,986.96
1907 .....	34,931.94
1908 .....	10,489.40
1909 .....	11,867.30
1910 .....	24,166.12
1911 .....	82,549.47
1912 .....	20,022.31
1913 .....	54,369.77



**SEWERS BUILT IN 1922**

City to Pay	Property to Pay	Amount of Contract	5% Retained on Contract	When Due	CONTRACTOR
222.17	\$1,335.48	\$1,399.20	69.96	12-19-23	Watson & Nickolof
date	.....	2,556.32	Not complete		A. A. Asphalt Const. Co.
date	.....	.....	.....		A. A. Asphalt Const. Co.
446.55	555.96	930.40	46.52	12-19-23	Patrick Ryan, Jr.
.....	450.00	.....	.....	Private job	Wm. Eddy & Son.
54 48	700.00	663.00	33 15	12-19-23	Patrick Ryan, Jr.
102.09	773.43	815 00	40.75	12-19-23	Rennie, Dibble Co.
278:01	3,672 09	3,768.05	188.40	12-19-23	Wm Eddy & Son.
37.23	568.10	564.75	28.24	12-19-23	Rennie, Dibble Co.
48.62	540.11	551.75	27.59	12-19-23	Rennie, Dibble Co.
628.39	280 18	795 96	39.80	12-19-23	Wm. Eddy & Son A. A. Asphalt Co str Co City Fore Account
(Not completed)					
817.54	\$8 875.35	\$12,044.43	474 41		

1914	51,218 16	31 quarts of oil, giving an average
1915	51,163.83	of 14.3 miles per gallon of gasoline
1916	57,588.48	and 172 miles per quart of oil and
1917	58,919.23	a total cost per mile of \$0.0388.
1918	13,123.48	The total operating cost per mile
1919	60,559.17	in 1921 was \$0.0381.
1920	152,561.44	The cost of running the Dodge
1921	120,963.41	car used by this department dur-
1922	184,948.15	ing the year 1922 is itemized be-

Total . . . . . \$1,305,972.00

There are 17.37 miles of paved streets in Ann Arbor, which is 25.73 per cent of the total streets.

**AUTOMOBILES**

The cost of running the Ford runabout used by this department during the year 1922 it itemized below:

361 gallons gasoline	\$ 86.41
31 quarts of oil	5.59
Repairs and maintenance	77.82
Tires	35.93

Total operating cost . . . . . \$205.75

The car was run 5303 miles, using 361 gallons of gasoline and

752 gallons gasoline	\$168.26
88 quarts oil	14.04
Repairs and maintenance	102.24
Tires	118.95

Total operating cost . . . . . \$403.49

The car was run 7,280 miles, using 752 gallons of gasoline and 88 quarts of oil, giving an average of 9.7 miles per gallons of gasoline and 83 miles per quart of oil and a total cost per mile of \$0.0554. The total operating cost per mile in 1921 was \$0.0545.

**Bridge, Culvert and Crosswalk Fund:**

The total amount of expendi-

## CLASSIFICATION OF EXPENDITURES FOR LABOR DURING 1922

	Engineering	Clerical	Inspection	Sewer Work	Totals
G. H. Sandenburgh	\$ 2,918.34			\$ 81.66	\$ 3,000.00
H. R. Scovill	1,741.03		4.15	254.74	1,999.92
V. W. McAdam	1,980.06		39.00	2.44	2,021.50
H. E. Disderide		\$1,125.00			1,125.00
H. F. Main	136.12			25.38	161.50
C. W. Blashill	959.12			3.24	962.36
Eugene Harbeck	95.75			.50	96.25
Wm. Niethamer	287.25				287.25
R. H. Barkell	77.50				77.50
John Sivula	8.00				8.00
Julius Lohrke	607.91		7.78	326.83	942.52
I. Warmington	15.75				15.75
E. A. Stadler	41.50				41.50
L. W. Millard	61.00				61.00
V. H. Clark	37.00			2.00	39.00
C. M. Berry	23.46		325.54		349.00
Carl Vogt	34.00				34.00
J. B. Blashill	257.50				257.50
E. D. Rentschler	284.00			32.50	316.50
C. W. Warner	28.50				28.50
C. E. Gillis	16.00				16.00
John Throp	99.25				99.25
Jim Acqui	480.10			330.50	810.60
Andro Barraco	192.63			97.50	290.13
Frank Ely	60.00				60.00
E. W. Littlefield	260.75				260.75
J. W. Jantzen	154.34		310.45	.50	465.29
Roger Gleason	258.50				258.50
Harold Steele	270.50			3.00	273.50
J. W. Phillips	16.00				16.00
Herbert Hicks	15.00				15.00
Leo Tobin	8.00				8.00
Beauford Hahs	6.00				6.00
R. W. Preston	144.79		219.82		364.61
Jim Mason	5.00			88.75	93.75
Carroll Demmink	82.00				82.00
H. J. Colyer	280.75		157.00		439.00
P. S. Tubbs	73.50				73.50
H. P. Berbeck	192.92		660.54		853.46
W. S. Mott	8.68				8.68

M. J. Orbeck	20 78	.....	447.79	.....	468.57
R. C. Baker	81.75	.....	.....	.....	81.75
C. M. Lucknor	7 75	.....	.....	.....	7.75
R. F. Kile	6.00	.....	.....	.....	6.00
L. S. McClenahan	8.00	.....	.....	.....	8.00
Carl Fery	31.00	.....	.....	.....	31.00
R. R. Reagh	26.50	.....	.....	.....	26.50
Emanuel Holzapfel	106.25	.....	.....	62.25	168.50
Fred Schmid	180.50	.....	.....	47.50	228.00
J. Hanselman	53.00	.....	.....	.....	53.00
C. Paul	25.43	.....	.....	39.60	65.03
Wm. Tullledge	22.75	.....	.....	.....	22.75
M. C. Sperry	14.00	.....	.....	.....	14.00
G. M. Golds	6.00	.....	.....	.....	6.00
Thos. Holland	6.00	.....	.....	.....	6.00
Adam Schlect	2.25	.....	.....	46.35	48.60
J. J. Orr	2.00	.....	.....	.....	2.00
W. L. Rye	97.09	.....	392.12	12.73	501.94
M. Fitzsimmons	.....	.....	658.67	.....	658.67
John Lovell	.....	.....	139.46	.....	139.46
J. I. Wanzeck	.....	.....	140.46	.....	140.46
Leslie Feiner	.....	.....	167.32	.....	167.32
J. H. Feldkamp	.....	.....	.....	14.75	14.75
F. Hanselman	.....	.....	.....	10.75	10.75
John Brokaw	.....	.....	.....	203.75	203.75
Geo. Keller	.....	.....	.....	27.00	27.00
Martin Walsh	.....	.....	.....	18.00	18.00
Ed Roehm	.....	.....	.....	33.80	33.80
L. G. Birl	.....	.....	.....	38.25	38.25
Wood Uhdrick	.....	.....	.....	14.40	14.40
Geo. Hauser	.....	.....	.....	6.80	6.80
Mike Marino	.....	.....	.....	41.75	41.75
Wm. Wayman	.....	.....	.....	76.50	76.50
Wm. Stierle	.....	.....	.....	19.00	19.00
Edwin Seeger	.....	.....	.....	4.00	4.00
Geo. Schmid	.....	.....	.....	12.00	12.00
Street Commission Roll	.....	.....	.....	81.60	81.60
Totals	\$12,909.97	\$1,125.00	\$3,272.20	\$2,061.57	\$19,368.74

An itemized summary of all public improvements constructed during the year 1922 will be found on the following page:

tures in the Bridge, Culvert and Crosswalk fund through our department is itemized below, according to the job on which the money was expended:

Storm sewer maintenance . . . . .	\$ 468.97
Woodlawn, Packard, Wells, Forest storm sewer . . . . .	30,860.87
Broadway storm sewer . . . . .	777.28
Fourth Ave. storm sewer Division and Cross St. storm sewer . . . . .	325.94
Brook St. storm sewer . . . . .	1,092.39
Dexter Ave. storm sewer . . . . .	4 821.69
	168.48

Total . . . . . \$38,515.62

#### Total Expenditures:

The total amount of expenditures for labor, office supplies, automobile supplies, repairs and maintenance of automobiles was \$21,576.57; of this amount \$9,919.00 was spent for engineering and inspection on construction work for which money was raised in special funds, and deducting \$9,921.90 from \$21,576.57 leaves \$11,654.67 spent out of the budget. The budget for the year 1922 was \$12,500.00. Subtracting the total expenditures from our budget leaves a balance of \$845.33.

#### SUMMARY OF MONTHLY LABOR REPORTS

1 Accounts . . . . .	\$ 80.04
2 Records . . . . .	1,934.59
3 Correspondence . . . . .	144.54
4 Reports, annual and monthly . . . . .	178.92
5 Committee, Board and Council meetings . . . . .	192.94
6 Inspecting plumbing . . . . .	70.93
7 Numbering houses . . . . .	6.10
8 Information to the public . . . . .	564.92
9 Information received from others . . . . .	7.64
10 Sanitary sewer maintenance . . . . .	1,571.76
11 Storm sewer maintenance . . . . .	468.97
12 Cleaning and arranging office . . . . .	16.52
13 City yards and shed cleaning . . . . .	16.94
17 Equipment surveying . . . . .	5.30
19 Work for Water Department . . . . .	18.90

20 Work for Park Department . . . . .	45.22
22 Sidewalk grades . . . . .	1,409.05
23 Curb grades . . . . .	50.55
24 Street lines and grades . . . . .	435.58
25 Preliminary estimates . . . . .	7.65
58 Tapping sanitary sewers . . . . .	20.84
59 Sickness and vacation . . . . .	317.68
65 Bridge and viaduct maintenance . . . . .	68.06
66 Directing the work the Department . . . . .	914.04
67 Oiling and treating roadways . . . . .	67.71
77 Convention and Society meetings . . . . .	56.39
89 Allen's Creek storm sewer . . . . .	18.45
92 Work for Street Department . . . . .	64.37
100 Assessor's plats for City . . . . .	221.66
131 Municipal Garage . . . . .	24.80
151 Packard St. Pavement, Granger to City Limits . . . . .	741.80
157 Housing Code . . . . .	781.87
167 Sanitary and storm sewer survey and design . . . . .	35.64
189 Hill St. pavement, Packard to Washtenaw Ave. . . . .	1,214.38
191 N. State St. pavement, Fuller to Huron St. . . . .	1,059.37
202 Division and Cross St. storm sewer . . . . .	60.91
207 S. State St. pavement . . . . .	1.24
238 Cross St. pavement . . . . .	17.91
239 Shalford Rd. sanitary sewer . . . . .	69.61
240 N. Seventh St. curb and gutter, Miller to Huron . . . . .	121.15
242 Forest Ave. curb and gutter, Cambridge to Wells . . . . .	13.66
243 First St. curb and gutter, Jefferson to William . . . . .	74.41
244 Third St. curb and gutter, Washington to Liberty . . . . .	67.13
245 Willard St. curb and gutter, Forest to Church St. . . . .	52.68
246 Maynard St. curb and gutter, William	

	to Jefferson . . . . .	61.48	274 Oxford Road curb and gutter, Hill to Washenaw . . . . .	204.98
248	Geddes Ave. pavement . . . . .	52.43	275 Michigan Ave. curb and gutter, E. University to Wells . . . . .	59.80
249	Huron St.-West Pk. sub main storm sewer . . . . .	12.19	276 White St. curb and gutter, McKinley to end . . . . .	3.20
250	W. Kingsley St. curb and gutter, Main to First Sts. . . . .	60.14	277 Forest Ave. curb and gutter, Hill to Cambridge . . . . .	129.97
251	Ashley St. curb and gutter, Miller Ave. to Felch St. . . . .	131.56	278 Henry St. sanitary sewer . . . . .	47.76
252	S. Seventh St. curb Madison . . . . .	471.07	279 Miller Ave.-West Pk. sub main sanitary sewer . . . . .	70.86
253	Woodlawn-Packard-Wells-Forest storm sewer . . . . .	1,144.67	280 Wall St. curb and gutter . . . . .	12.19
254	White St. curb and gutter, Arch to McKinley . . . . .	72.12	281 Ann St. storm sewer	28.70
255	Washington Heights sanitary sewer . . . . .	167.53	282 Catherine St. storm sewer . . . . .	16.20
256	W. Washington St. curb and gutter, Ashley to Revena. . . . .	646.52	283 Lawrence St. storm sewer . . . . .	16.20
257	Crest Ave. curb and gutter, Huron St. to end . . . . .	163.47	284 Broadway storm sewer . . . . .	3.69
258	Third St. curb and gutter, Liberty to Mosley . . . . .	422.31	285 John St. sanitary sewer . . . . .	45.03
259	Brookwood Place curb and gutter, Dist. No. 36 . . . . .	87.57	286 Fourth Ave. storm sewer . . . . .	1.69
260	Ingalls-Lawrence St. curb and gutter . . . . .	108.21	287 Storr sewer, Dexter Ave. to County drain . . . . .	60.00
261	Wilmot St. curb and gutter, Washtenaw to Elm . . . . .	96.89	289 Krause St. sanitary sewer . . . . .	95.48
262	University replacement sanitary sewer . . . . .	20.99	290 Abbott Ave. sanitary sewer . . . . .	33.78
264	Washington St. sub-main storm sewer . . . . .	44.50	291 Charlton Ave. sanitary sewer . . . . .	37.38
265	Murray Ave. curb and gutter Liberty to Washington . . . . .	135.24	292 Dexter Ave. sanitary sewer . . . . .	174.39
268	Hill St. curb and gutter, Packard to Main . . . . .	251.82	293 Vinewood Blvd. sanitary sewer . . . . .	59.82
269	Ann St. curb and gutter, State to Division . . . . .	125.52	295 Fourth Ave. pavement . . . . .	21.19
270	Fountain St. curb and gutter, Felch to Hiscock . . . . .	52.48	297 W. Madison St. curb and gutter . . . . .	2.89
271	Walnut St. curb and gutter, S. University to Geddes . . . . .	107.64	298 Brooks-Miller to N. Spring Hill, curb and gutter . . . . .	37.23
272	S. Division St. curb and gutter, Madison to Cross . . . . .	75.62	300 Ingalls St. curb and gutter . . . . .	7.69
273	Brooks st. storm sewer, Pearl to Miller . . . . .	240.49	301 Ashley St. curb and gutter, Jefferson to Madison . . . . .	7.78
			302 Moore St. curb and gutter, Broadway to Pontiac . . . . .	4.40
			303 Catherine St. curb and gutter, Division to State . . . . .	8.08
			304 Broadway curb and gutter, Swift to City limits . . . . .	51.88

LOCATION	Improvement	Contractor
Woodlawn, Packard, Hill Forest.	Storm sewer	Bartling & Dull
Brooks St. ....	Storm sewer	Patrick Ryan, Jr.
Fourth Ave. ....	Storm sewer	City Force Acct.
Broadway . ....	Storm sewer	City Force Acct.
Division St.-Cross St. ....	Storm sewer	City Force Acct.
Shadford Road . ....	Sanitary sewer	Watson & Nickolof
Washington Heights . ....	Sanitary sewer	A. A. Asphalt Const. Co.
Miller-Ave -West Park . ....	Sanitary sewer	Patrick Ryan, Jr.
John St. ....	Sanitary sewer	Patrick Ryan, Jr.
Vinewood Blvd. ....	Sanitary sewer	Rennie, Dibble Co.
Dexter Ave. ....	Sanitary sewer	Wm Eddy & Son
Charlton Ave. ....	Sanitary sewer	Rennie, Dibble Co.
Abbott Ave. ....	Sanitary sewer	Rennie, Dibble Co.
Kraus St. ....	Sanitary sewer	Wm. Eddy & Son
Wildwood Ave. ....	Sanitary sewer	Wm. Eddy & Son
	Sidewalks	A F. Thompson
Michigan Ave . ....	Curb & Gutter	Patrick Ryan, Jr.
Willard St. ....	Curb & Gutter	Mich. Constr. Co.
Seventh St., North . ....	Curb & Gutter	Mich. Constr. Co.
Seventh St., South . ....	Curb & Gutter	Mich. Constr. Co.
First St. ....	Curb & Gutter	Mich. Constr. Co.
Third St., Washington to Liberty.	Curb & Gutter	Mich. Constr. Co.
Kingsley St. ....	Curb & Gutter	Patrick Ryan, Jr.
Ashley St. ....	Curb & Gutter	Patrick Ryan, Jr.
Maynard St. ....	Curb & Gutter	Patrick Ryan, Jr.
Crest Ave. ....	Curb & Gutter	Mich. Constr Co.
White St. ....	Curb & Gutter	Patrick Ryan, Jr.
Brookwood Pl. ....	Curb & Gutter	Patrick Ryan, Jr.
Ingalls-Lawrence . ....	Curb & Gutter	Patrick Ryan, Jr.
Washington St. ....	Curb & Gutter	Mich Constr Co.
Third St., Liberty to Mosley.....	Curb & Gutter	Mich Constr Co.
Wilmot St. ....	Curb & Gutter	Mich Constr Co.
Murray Ave . ....	Curb & Gutter	Mich Constr Co.
Fountain St. ....	Curb & Gutter	Patrick Ryan, Jr.
Ann St. ....	Curb & Gutter	Patrick Ryan, Jr.
Forest Ave. ....	Curb & Gutter	Mich. Constr Co.
Division St. ....	Curb & Gutter	Mich. Constr Co.
Walnut St. ....	Curb & Gutter	Mich. Constr Co.
Oxford Road . ....	Curb & Gutter	Mich. Constr Co.
Hill St, Packard to Main.....	Curb & Gutter	Patrick Ryan, Jr.
Hill St., Packard to Washtenaw...	Pavement	A. A. Asphalt Const. Co.
State St. ....	Pavement	A. A. Asphalt Const. Co.
Packard St. ....	Pavement	A. A. Asphalt Const. Co.
Cross St. ....	Pavement	City Force Acct.
Totals . ....		

Total Cost	Eng's Estimate	Eng & Inspection	Cost of Const.	Amount Retained
\$30,860.87	\$32,969.40	\$1,196.67	\$29,664.20	\$1,441.64
4,821.69	6,436.10	246.95	4,574.14	228.73
325.94	250.00	1.69	324.25	.....
777.28	777.28	3.69	773.59	.....
1,092.39	1,523.50	11.91	1,080.48	.....
1,557.65	1,382.04	93.14	1,464.51	69.96
2,748.93	2,094.13	192.61	2,556.32	Not complete
1,002.51	1,111.55	72.11	930.40	46.52
754.48	901.56	46.23	708.25	33.15
875.52	1,158.24	60.52	815.00	40.75
3,950.10	3,419.57	182.05	3,768.05	188.40
605.33	777.25	40.58	564.75	28.23
588.73	789.25	36.98	551.75	27.58
908.57	942.75	112.61	795.96	39.79
450.00	450.00	.....	450.00	.....
4,868.04	4,868.04	.....	4,868.04	.....
1,734.53	1,557.60	68.54	1,665.99	.....
741.65	577.83	53.49	688.16	.....
3,187.93	2,805.77	203.78	2,984.15	.....
5,742.24	4,818.16	391.45	5,350.79	.....
1,317.89	1,208.95	83.95	1,233.94	.....
1,131.41	975.31	79.96	1,051.45	.....
1,093.64	1,048.30	79.66	1,013.98	.....
2,159.48	1,830.51	145.83	2,013.65	.....
1,145.40	923.56	58.18	1,087.22	.....
2,277.27	1,867.91	146.30	2,130.97	.....
915.11	830.61	54.67	860.44	.....
1,081.37	869.55	94.92	986.45	.....
1,127.71	982.96	112.81	1,014.90	.....
8,749.36	7,382.87	507.44	8,241.92	.....
4,939.06	3,953.62	341.65	4,597.41	.....
1,394.98	1,248.94	89.13	1,304.95	.....
1,645.53	1,268.57	110.90	1,534.63	.....
686.32	661.32	53.32	633.00	.....
1,436.72	1,226.39	93.92	1,342.80	.....
1,866.61	1,590.27	112.09	1,754.52	.....
1,177.19	967.78	80.21	1,096.98	.....
1,316.17	1,068.98	103.26	1,212.91	.....
1,346.12	1,047.64	181.78	1,164.34	.....
3,802.01	3,778.72	271.41	3,530.60	.....
35,383.57	43,569.30	1,682.42	33,701.15	.....
29,923.48	36,296.48	1,360.06	28,563.42	.....
17,129.92	22,367.45	1,045.12	16,084.80	.....
1,925.32	3,345.65	17.91	1,907.41	.....
<u>\$192,565.12</u>	<u>\$209,921.91</u>	<u>\$9,921.90</u>	<u>\$182,643.22</u>	<u>\$2,144.75</u>

305 Eighth St. curb and gutter, Liberty to Huron . . . . .	14.00
306 Onondaga St. curb and gutter, Hill to Dorset Rd. . . . .	7.34
307 N. Thayer St. curb and gutter, Ann to Catherine . . . . .	4.33
308 S m o k e Inspection Department . . . . .	72.97
	<hr/>
	\$19,368.74

**SUMMARY OF EXPENDITURES FOR OFFICE EQUIPMENT AND SUPPLIES.**

**Sanitary and Storm Sewer Maintenance Supplies:**

7 Numbering houses...\$	104.00
10 Sanitary sewer maintenance supplies	305.76
11 Storm sewer maintenance supplies...	206.04
13 City yards and shed cleaning, etc. . . . .	2 47
14 Supplies, Engineer's office . . . . .	334.27
15 Equipment, Engineer's office . . . . .	39.20
16 Supplies surveying..	60.81
17 Equipment, surveying . . . . .	151.40
20 Work for Park Department . . . . .	.70
22 Sidewalk grades....	127.37
23 Curb grades . . . . .	30.00
24 Street lines and grades . . . . .	56.32
60 Ford automobile....	205.75
60a Dodge automobile..	403.49
60b Emergency car.....	103.04
66 Directing work of department . . . . .	6.08
77 Conventions and society meetings.....	37.63
157 Housing Code.....	33.50
	<hr/>
Total . . . . .	\$ 2,207.83

**Engineer's Office:**

The amount chargeable to your Engineer's office, including all equipment, supplies and all the time devoted to running the office by myself and employees has been distributed as follows:

1 Office accounts . . . . \$	80.04
2 Office records . . . . .	1,934.59
3 Office correspondence	144.54
4 Reports, annual and monthly . . . . .	175.96
5 Council, Board and Committee meetings	192.91

6 Inspecting plumbing and laying tile.....	70.93
7 Numbering houses..	110.10
8 Information to the public . . . . .	564 92
9 Information received from others . . . . .	7.64
11 Cleaning and arranging Engineer's office . . . . .	16.52
13 Cleaning and arranging City yards.	19.41
14 Office supplies . . . . .	334.27
15 Office equipment....	39.20
16 Surveying supplies..	60 81
17 Surveying equipment	151.90
59 Sickness and vacation . . . . .	317.68
66 Directing work of department . . . . .	920.12
77 Conventions and society meetings.....	37 63
157 Housing Code.....	815.37
	<hr/>
Total . . . . .	\$5 994.57

Ann Arbor, Michigan,  
January 10, 1923.  
To the Honorable Board of Public Works,  
Ann Arbor, Michigan.

Gentlemen: I submit herewith the annual report of the Street Department for the year ending December, 1922, including care of streets and sidewalks, building and repairs, sidewalk extensions, crosswalks, inlets, etc.. City paving work, gravel and other material used.

Respectfully submitted  
**ALF. J. PAUL,**  
Street Commissioner.

**Cleaning Paved Street**

Labor, teams and operator . . . . .	\$ 661.94
Gasoline and oil used for sweeper . . . . .	309.99
Repairs and maintenance	489.49
Making brooms for season . . . . .	114.05
Ann Arbor Water Co., water used . . . . .	19.15
Fibre for street brooms . . . . .	\$176.60
Freight on broom fibre . . . . .	19.68
	<hr/>
	\$196.28
Broom fibre, left over, 500 lbs.	
@ .07 . . . . .	35.00
	<hr/>
	\$161 28



**SUMMARY OF SANITARY SEWERS IN THE CITY OF ANN ARBOR**

District No.	STREET	Date	Total Length of Main	No. Manholes	No. Flushtanks	No Light Holes	8 in. Tile	10 in. Tile	No. House Connections	Length of House Conn.	Flush Tank Chgd. to Man.	Total Cost
	Main sewer .....	1893										\$ 41,252.83
1	Liberty, E. of main sewer....	1894										3,954.44
2	Washington, E of main sewer	1894										6,831.08
3	Hill St. dist. E. of main sewer.	1895										27,912.80
4	Huron, E. of main sewer....	1895										4,303.19
5	William, E. of main sewer...	1895										8,454.98
6	Detroit .....	1897										12,587.00
7	W. Liberty to near Seventh...	1897	1,804	5	1	5	1,804	.....	66	998	..	1,887.84
8	E Catherine, Division to State	1900	631	..	1	1	631	.....	22	256	..	527.43
9	Ann, Huron, 13th and 14th..	1901	1,370	4	2	..	1,370	.....	50	988	..	2,163.46
10	14th and Volland.....	1901	1,266	3	1	..	1,266	.....	35	630	..	1,541.47
11	First, Madison to Jefferson...	1903	918	3	1	..	613	305	27	508	..	1,169.51
12	W. William St.....	1903	1,527	4	1	..	583	344	40	678	..	2,083.02
13	Beakes, 4th, 5th Av., Kingsley.	1904	4,204	8	7	..	2,706	1,498	137	2,316	..	5,024.40
14	N. Main, main sew. to Cath'ine.	1905	1,393	3	2	..	1,393	..	69	1,444	..	2,322.48
15	Cambridge, Washtenaw, Vine-wood, Ferdon .....	1905	1,487	4	2	..	1,487	.....	28	707	..	1,735.64
16	W. Liberty ext. to city limits..	1906	1,352	3	1	..	1,352	.....	40	726	..	1,265.68
17	3rd, William to Jefferson.....	1905	602	1	1	..	602	.....	19	328	..	590.84
18	W. Huron .....	1906	3,509	8	1	..	2,942	567	102	2,066	..	4,111.52
19	Church .....	1906	444	1	1	..	444	.....	22	376	..	574.76
20	Miller Ave. ....	1906	2,224	9	1	..	1,737	487	57	987	..	2,147.27
21	Spring, Miller to Hiscock....	1907	1,252	4	..	..	688	564	*32	.....	..	1,070.92
22	W. Washington and 3rd.....	1907	2,834	8	2	..	2,834	.....	*88	.....	..	2,369.02
23	S. Division—(Note) .....	1906	200	..	1	..	200	.....	8	160	..	250.00
24	Geddes Ave., Hill and Oswego.	1907	1,730	5	2	..	1,730	.....	*30	.....	..	1,530.50
25	State and Dewey Ave.....	1907	3,134	3	2	..	2,882	242	*88	.....	..	2,186.57
26	Broadway and Wall St.....	1907	5,682	20	2	..	3,571	2,111	*143	.....	..	4,989.01

27	Second Ward .....	1908	11,470	24	13	..	3,540	1,930	*337	.....	..	8,035.98
28	Belser, Observatory, Volland..	1907	2,380	4	3	..	2,380	.....	*39	.....	..	1,895.50
29	Spring St. extension.....	1908	896	3	1	..	896	.....	*26	.....	..	632.32
30	E. Catherine and Clark.....	1908	1,498	3	2	..	1,498	.....	*38	.....	..	1,148.36
31	Fuller and Elizabeth.....	1907	1,080	2	2	..	1,080	.....	*22	.....	..	943.60
32	S. Main, Mosley, Ashley.....	1909	3,679	8	3	..	3,108	571	*98	.....	..	2,229.03
33	Arch, White, McKinley.....	1909	1,458	3	..	..	.....	1,458	*58	.....	..	513.49
34	Packard, Granger, Ferdon....	1909	10,128	27	7	..	7,030	3,098	*376	.....	..	6,300.06
35	Second, William to Liberty...	1909	321	..	1	..	321	.....	*12	.....	..	240.69
36	N. 5th Ave. and E. Summit...	1910	891	2	2	..	891	.....	*27	.....	..	741.30
37	Cambridge, Washtenaw to Hill	1910	1,200	3	2	..	1,200	.....	*34	.....	..	911.39
38	Hill, Division to Main.....	1910	1,320	3	1	..	1,320	.....	*40	.....	..	1,037.00
39	Fuller, Glen to State.....	1910	1,197	3	1	..	1,197	.....	*19	.....	..	815.93
40	Ashley, Kingsley to Ann.....	1910	771	2	1	..	771	.....	*30	.....	..	667.77
41	Felch, Fountain, Hiscock, Cha- pin, Cherry .....	1910	4,070	8	6	4	3,328	742	*122	.....	..	3,229.79
42	N. Main, Summit to A.A.R.R..	1911	651	2	1	..	651	.....	17	230	..	680.14
43	4th Ave., Beakes to Summit..	1911	869	2	1	..	869	.....	*31	.....	..	646.55
44	Depot, 4th Ave. to Main.....	1911	335	..	1	..	335	.....	*9	.....	..	204.26
45	White and McKinley.....	1911	345	1	1	..	345	.....	*18	.....	..	247.32
46	Olivia Ave. and Minerva Rd..	1911	733	2	1	..	733	.....	*29	.....	..	538.53
47	E. Ann, Glen to Ingalls.....	1911	655	1	1	..	655	.....	*28	.....	..	532.71
48	Murray Av., Wash. to Liberty.	1912	724	4	1	1	738	.....	27	350	..	1,009.62
49	Olivia Ave., N. of Minerva Rd.	1912	157	..	1	1	166	.....	8	102	..	301.02
50	Myrtle, Oswego to city limits..	1912	651	1	1	1	668	.....	17	370	..	1,795.69
51	Summit St., Main to Spring...	1914	1,295	5	1	1	1,302	.....	*41	.....	..	1,158.57
52	Hiscock, Fountain to Miner...	1913	372	..	1	1	378	.....	*14	.....	..	318.41
53	Crest Ave. and W. Washington.	1914	1,774	4	3	3	1,798	.....	66	1,006	1	2,432.81
54	W. Liberty to city limits.....	1913	464	1	1	1	472	.....	24	382	1	1,101.54
55	Austin Av. and Washtenaw Av.	1914	2,486	9	2	2	2,494	.....	*78	.....	..	3,862.29
56	Third Ward .....	1914	7,186	22	8	8	6,832	430	*244	.....	..	7,655.78
57	Ged's Av., Oswego to 210 ft. E.	1914	276	..	1	1	281	.....	6	80	1	574.29
58	W. Huron St. to end of pav't.	1913	75	..	1	1	82	.....	3	12	1	187.06
59	Ann St., Clark to Observatory.	1913	610	1	1	1	614	.....	*18	.....	..	765.61
60	Brown St., 4th Av., Philip St..	1914	2,551	7	3	3	2,576	.....	*93	.....	..	2,902.70
61	E. Catherine, De roit and 4th.	1914	2,622	9	4	4	2,626	.....	73	1,326	..	4,863.19
62	E. Cath., Clark to 100 ft. E...	1914	101	..	1	1	104	.....	*5	.....	..	155.14
63	Sixth, Seventh and Eights Sts..	1914	3,146	12	5	5	696.1	.....	88	1,330	..	4,658.28
							2,372t.					

64	Third, Fourth and Fifth Sts...	1914	647	1	3	3	36c.i. ....	*31	.....	750.98
							628c.			
65	Packard St. ....	1914	428	1	..	..	428 .....	*11	.....	271.15
66	First St., Catherine to Ann...	1914	225	..	1	1	231 .....	*10	.....	423.80
67	Moore St. Bdwy. to Pon iac..	1914	545	2	1	1	546 .....	*16	.....	634.22
68	Seventh, Bath and Willow Sts.	1915	4,523	21	6	0	3,735 738	*77	.....	3,593.14
69	Mosley St. 2nd to 3rd St.....	1916	250	..	1	1	222 .....	*14	..... 1	250.63
70	West St. from Main St. W....	1916	552	3	1	..	504 .....	*24	.....	622.18
71	Roosevelt, Church to Forest..	1916	222	..	1	..	204 .....	*9	.....	204.92
72	Hamilton, Rose & Sheehan add.	1917	10,297	33	9	..	6,014 3,661	*311	.....	16,293.03
	Olivia Av. from Wells St. N...	1915	188	..	1	1	188 .....	*6	.....	150.21
73	Eber White addition.....	1916	1,766	10	2	..	1,670 .....	48	1,064 ..	2,663.82
74	Lincoln St., 4th Ave. to Main.									
75	Hill, Onondaga, Geddes, Berk-	1913	564	2	2	..	524 .....	*20	.....	640.89
	shire .....	1917	1,366	6	2	..	1,312 .....	*27	..... 1	2,499.17
76	Washington St., 12th to 14th..	1917	646	3	1	2	12c.i. 250	*22	.....	862.93
77	John K Ave. and First St.....						340v.t. 15 in.			
		1916	995	4	2	..	923 .....	*36	.....	1,082.34
78	Fifth St. S. of Madison.....	1916	882	3	1	..	806 .....	*38	.....	874.80
79	Hiscock St., Summit to Spring.	1916	1,080	6	1	..	1,002 .....	*39	.....	1,251.27
80	7th St., Liberty to Jefferson...						1310v.t.			
		1917	1,374	6	2	..	1310v.t.....	*26	.....	1,204.50
81	Wells St., Baldwin to Ferdon.						12c.i.			
		1917	368	3	1	..	336 .....	*16	.....	485.85
82	Packard and Brooklyn.....	1917	3,307	11	2	..	3,073 .....	*117	.....	4,165.25
83	Eighth St., Huron to Wash ..	1917	210	..	1	..	198 .....	*6	.....	339.01
84	Killins Heights add.....	1917	5,324	14	8	..	4,932 .....	*196	..... 1	7,218.53
85	Eber White and Soule Blvd...	1917	1,144	7	..	..	1,082 .....	*31	.....	2,035.79
86	West Hoover Ave.....	1918	447	4	..	..	415 .....	*16	.....	990.66
87	Ninth St Huron St. South....	1918	216	..	1	..	200 .....	*8	.....	309.14
88	Jackson Ave. Forks to limits.	1919	1,945	7	1	0	1,945 0	65	126 1	2,401.97
89	Jones and Mill Sts.....	1920	530	2	1	0	530 0	7	..... 0	1,233.00
90	Berkshire Rd and Orchard St.	1920	880	4	1	0	880 0	20	..... 0	2,534.09
91	E Hoover Ave.....	1920	355	1	1	0	355 0	10	..... 0	711.25
92	Edward St. ....	1920	240	2	0	0	240 0	*5	..... 0	526.07
93	7th St., Wash. to Huron St...	1919	146	1	0	0	146 0	2	2 0	303.79
94	Boulevard Drive .....	1919	1,017	5	0	0	1,017 0	1	..... 0	2,215.81
	Dexter Ave. ....	1919	168	1	0	0	168 0	2	24 0	101.00
95	Pauline Boulevard .....	1920	216	1	0	0	216 0	8	..... 1	687.71

96	Fifth Ave., South Madison....	1920	250	3	0	0	250	0	1	.....	0	632.99
97	Day St., Cambridge to Wayne.	1920	556	4	0	0	556	0	1	.....	0	1,609.73
98	Soule Blvd., Maxwell to Elder.	1921	494	3	1	0	466	0	14	.....	0	1,426.88
99	Elder Blvd., Buch'an to Soule.	1921	690	2	0	0	648	0	21	.....	0	1,629.16
100	Lutz Av., Elder to Eber White.	1921	310	2	0	0	284	0	13	.....	0	890.34
101	Pentiac Rd., Moore to city lim.	1921	2,589	10	1	0	2,431	0	79	.....	1	6,672.31
102	Onondaga, Hill to Dorset.....	1921	359	2	0	0	347	0	6	.....	0	957.41
103	7th St., Madison to Davis....	1921	1,412	4	0	0	1,310	0	51	.....	1	3,545.46
104	Day St., Wayne to Berkshire..	1921	416	2	0	0	390	0	13	.....	0	989.31
105	Morton Av., Pack'd to Bald'n.	1921	1,068	6	0	0	1,000	0	34	.....	0	2,336.57
106	Dexter Av., (Pvt.-west) 450 ft.											
107	Woodlawn Av., Packard to	1921	454	3	0	0	430	0	12	.....	0	1,153.58
	Ingalls . . . . .	1921	921	3	1	0	841	0	40	.....	0	1,516.29
108	Sylvan Av., Packard to White.	1921	700	4	1	0	646	0	27	.....	0	1,057.81
109	Dexter Av. extension 300 ft...	1921	300	2	0	0	280	0	10	.....	0	770.84
110	Shadford Rd., Packard to											
	Baldwin . . . . .	1922	794	2	0	0	742	0	26	.....	0	1,557.65
111	Wash. Hgts., Obser'y to river.	1922	Not completed									
							12 in.					
112	Miller Av.-W. Park sub main.	1922	813	3	0	0	439	374	0	.....	..	1,002.51
113	John St., Division to 5th Ave..	1922	464	2	1	0	432	0	16	.....	0	754.48
114	Vinewood Blvd., Wayne to											
	city limits . . . . .	1922	490	2	0	0	466	0	12	.....	1	875.52
115	Dexter Ave., 9 plus 25 to city											
	limits . . . . .	1922	1,137	5	0	0	1,069	0	34	.....	..	3,950.10
116	Challton Ave, Virginia West.	1922	420	2	0	0	392	0	14	.....	..	605.33
117	Abbott Ave., Virginia, West...	1922	414	2	0	0	388	0	13	.....	..	588.73
118	Krause St., Murray to Third..	1922	445	2	1	0	411	0	17	.....	..	908.57
119	Henry St., Golden to Packard.	1922	Not completed									
	**Willow Ave., Dexter N...	1922	265	0	1	..	.....	.....	.....	.....	.....	450.00
	University Relief . . . . .	1922	Not completed									
	Totals . . . . .		166,824	508	179	48	137,341	19,610	5,380	19,548	12	\$307,186.06

\*Branches only.

Note: District 23 never accepted by city. Above data is engineer's approximate estimate.

Note: In district No. 50 one 8 in. house connection, 28 ft. long, is included in above table

\*\*Private sewer.

**SUMMARY OF CURBS AND GUTTERS IN THE CITY OF ANN ARBOR**

District No.	STREET AND LIMITS	Year Built	Length	Total Cost	Amount of Contract	Cost per ft	CONTRACTOR
1	Lawrence St., Division St. to State St . . . .	1919	1,284.7	\$ 1,000.00	\$ 963.58	\$ .78	Thos. Hessian
2	Oxford Road, Geddes Av. to Hill St. . . . .	1919	1,273.8	1 071.67	1,019.04	.84	Thos. Hessian
3	Forest Ave., Willard St. to Hill St. . . . .	1920	1,118.0	1,416.16	1,341.60	1.26	Thos. Hessian
4	Hill St., Lincoln to Washtenaw. . . . .	1920	1,080.0	1,417.50	1 296.00	1.31	Thos. Hessian
5	Cambridge Road Lincoln Av. to Baldwin Av.	1920	1,412	1,841.37	1,694.40	1.30	Thos. Hessian
6	Martin Place, Scott Alley to Wells St . . . .	1920	997	1,244.72	1,196.40	1.24	A. F. Thompson
7	Hill St., Oswego St to Berkshire Rd.	1920	1,706	2,217.14	2,047.20	1.29	A. F. Thompson
8	East University Av., Hill to Oakland Ave. . . . .	1920	1,186.5	1,481.88	1,423.80	1.25	A. F. Thompson
9	Forest Av., S University Av to Willard	1920	852	1,080.00	1,022.40	1.27	Thos. Hessian
10	Sixth St., Liberty St. N. to End. . . . .	1921	1,008	1,248.97	1,108.80	1.24	Thos. Hessian
11	Kingsley St. & Lawrence St., State to Lawrence to Cath. .	1921	1,668.5	2,050.89	1,835.35	1.23	Thos. Hessian
12	Olivia Av., Cambridge Rd. to Granger.	1921	3,810	4,457.13	4 191.00	1.17	Thos. Hessian
13	Baldwin Av., Wash Av. to Cambridge. . .	1921	742.5	911.82	816.75	1.23	Thos. Hessian
14	Fardon Rd., Wells St. to Norway Rd. . . .	1921	475 c & g. 254 c	638.98	475.00 127.00	1.08	Sydnae Gustin & Co.
15	Dewey Av., State St. to Packard St. . . . .	1921	2,689.5	2,916.11	2,689.50	1.08	Sydnae Gustin & Co.

16	Lincoln Av., Hill St. to Wells St.....	1921	3,876.3	4,183.79	3,876.30	1.08	Sydnae Gustin & Co.
17	Elm St., S. Univ. Av. to Geddes.....	1921	1,360	1,542.22	1,360.00	1.13	Sydnae Gustin & Co.
18	Minerva Rd. Olivia to Forest Av.....	1921	771.5	806.49	771.50	1.05	Sydnae Gustin & Co.
19	McKinley Av., Packard St. to White St....	1921	999	1,126.38	999.00	1.13	Sydnae Gustin & Co.
20	Prospect St., Wells St. to E. Univ. Av....	1921	1,870	2,042.96	1,870.00	1.09	Sydnae Gustin & Co.
21	Wells St., Forest Av. to Olivia Av....	1921	884	810.97	724.88	.92	Sydnae Gustin & Co.
22	Granger Av., Packard to Ferdon Rd.....	1921	4,346.5	3,900.62	3,564.13	.90	Sydnae Gustin & Co.
23	Cambridge Rd., Baldwin Av. to Washtenaw.	1921	705	626.52	578.10	.89	Sydnae Gustin & Co.
24	Wells St., Packard St. to Forest Av....	1922	(Not Completed)				Michigan Constr. Co.
25	Willard St., Forest Av. to Church St....	1922	664	741.65	635.80	1.12	Michigan Constr. Co.
26	Seventh St., North Miller Av. to Huron St.....	1922	3,133	3,187.93	2,890.85	1.02	Michigan Constr. Co.
27	Seventh St. South, Huron St. to Madison St...	1922	5,389	5,742.24	5,103.41	1.06	Michigan Constr. Co.
28	Forest Av., Cambridge Rd. to Wells St.	1922	(Not Completed)				Michigan Constr. Co.
29	First St., Jefferson St. to William St..	1922	1,312	1,317.80	1,218.05	1.00	Michigan Constr. Co.
30	Third St., Washington St. to Liberty St.	1922	1,118	1,131.41	1,051.45	1.01	Michigan Constr. Co.
31	Kingsley St., Main St. to First St.....	1922	1,069	1,093.64	1,013.98	1.02	Patrick Ryan, Jr.
32	Ashley St., Miller Av. to Felch St.....	1922	2,126	2,159.48	2,006.75	1.01	Patrick Ryan, Jr.
33	Maynard St., William St. to Jefferson St.	1922	1,064	1,145.40	1,007.55	1.07	Patrick Ryan, Jr.
34	Crest Ave., Huron to End .....	1922	2,115	2,277.27	2,006.85	1.08	Michigan Constr. Co.
35	White St.,		706(c&g)				

36	Arch St. to McKinley St....	1922	218(g)	915.11	780.84	1.12	Patrick Ryan Jr.
	Brockwood Pl.,						
	Packard St. to End.....	1922	1 042	1,081.37	986.45	1 04	Patrick Ryan, Jr.
37	Ingalls St. and Lawrence St						
	Catherine St. to Thayer St.	1922	1,095	1,127.71	1,014.90	1.03	Patrick Ryan, Jr.
38	Washington St.,						
	Ashley St. to Ravenna Blvd..	1922	8,156	8,749.36	7,707.41	1.07	Michigan Constr Co.
39	Third St.,						
	Liberty St. to Mosley St....	<b>1922</b>	<b>4,350</b>	<b>4,939.06</b>	<b>4,246.45</b>	<b>1.13</b>	<b>Michigan Constr. Co.</b>
40	Wilmot St.,						
	Washtenaw Av. to Elm St.	1922	1,354	1,394.08	1,292.85	1.03	Michigan Constr. Co
41	Murray Av.,						
	Washington St. to Lib. St..	1922	1 433	1,645.53	1,379.55	1.15	Michigan Constr. Co.
42	Fountain St.,						
	Felch St. to Hiscock St....	1922	662	686.32	633.00	1.04	Patrick Ryan, Jr.
43	Ann St.,						
	State St. to Division St.....	1922	1,408	1,436.72	1 342.80	1.02	Patrick Ryan, Jr.
44	Forest Av.,						
	Cambridge Rd. to Hill St...	1922	1,861	1,866.61	1,710.20	1.00	Michigan Constr. Co.
45	Division St.,						
	Madison St. to Cross St.....	1922	1,117	1,177.19	1,096.98	1.05	Patrick Ryan, Jr.
46	Walnut St.,						
	Geddes Av. to S. Univ. Av...	1922	1,219	1,316.17	1,159.10	1.07	Michigan Constr. Co
47	Oxford Rd.,						
	Hill St to Washtenaw Av...	1922	1,251	1,346.12	1,113.50	1.08	Michigan Constr. Co.
48	Hill St.,						
	Packard St. to Main St.....	1922	3,735	3,802.01	3,530.60	1.02	Patrick Ryan, Jr.
49	Michigan Av.,						
	Wells St. to E. University Av.	1922	1,751	1,734.53	1,665.99	.99	Patrick Ryan, Jr.
	Totals .....	.....	85,499.8	\$92,049.09	\$83,613.04	.....	

**SUMMARY OF PAVEMENTS IN THE CITY OF ANN ARBOR**

District No.	STREET	When Laid	No sq. yds	Total Cost	Total Cost Per sq. yd.	Cost sq. yd. Pav. Only	KIND
1&2	Main St. ....	1898	12,730	\$ 31,375.15	\$2.46	\$1.64	Brick on concrete
3	Washington, Ashley to 5th Av. ....	1899	5,140	11,645.17	2.27	1.73	Brick on concrete
4	Huron, Ashley to State.....	1900	10,791	27,845.38	2.58	2.17	Asphalt block on sand
5	State, Huron to Monroe.....	1902	12,484	31,778.98	2.55	2.16	Asphalt block on sand
6	Ann, Main to 4th Av.....	1902	1,589	2,860.70	1.80	1.39	Brick on sand
7	Liberty, Ashley to State.....	1903	9,140	24,486.06	2.68	2.13	Asphalt block on sand
8	4th Av., Huron to Liberty....	1903	2,431	6,490.80	2.67	2.19	Asphalt block on sand
10	William . . . . .	1907	7,519	19,092.01	2.54	2.03	Bitulithic
9	N. University . . . . .	1905	5,045	10,720.16	2.03	1.63	Brick on concrete
11	Alley . . . . .	1908	350	672.74	1.92	1.50	Brick on concrete
12	Maynard . . . . .	1909	1,883	1,930.13	1.03	.78	Ann Arbor tar-concrete
13	N. 4th Av., Huron to Ann....	1910	1,159	1,351.34	1.17	.88	Ann Arbor tar-concrete
14	E. Huron and 12th.. . . . .	1910	6,765	6,685.50	.99	.76	Ann Arbor tar-concrete
15	Washington, 5th Av. to 12th..	1910	8,633	8,189.73	.95	.71	Ann Arbor tar-concrete
16	Washtenaw Av. . . . .	1911	12,092	12,392.81	1.03	.78	Ann Arbor tar-concrete
17	State, Packard to Arch.....	1911	2,587	2,672.49	1.03	.84	Ann Arbor tar-concrete
18	S. Main and Packard.....	1911	20,826	23,172.05	1.11	.78	Ann Arbor tar-concrete
19	N. Main, Catherine St., N.....	1911	10,117	11,110.86	1.10	.82	Ann Arbor tar-concrete
20	Hill and Oswego . . . . .	1913	5,682	7,726.41	1.36	.93	Ann Arbor tar-concrete
21	Fifth Av. . . . .	1911	10,483	11,678.31	1.12	.84	Ann Arbor tar-concrete
22	Alley . . . . .	1911	293	314.84	1.07	.84	Ann Arbor tar-concrete
23	Alley . . . . .	1911	920	1,029.38	1.12	.77	Ann Arbor tar-concrete
24	Arch and Thayer . . . . .	1911	1,833	1,747.35	.95	.77	Ann Arbor tar-concrete
25	State, Monroe to Packard....	1911	3,158	3,181.57	1.01	.78	Ann Arbor tar-concrete
26	Mary . . . . .	1912	2,407	2,703.08	1.12	.89	Ann Arbor tar-concrete
27	Ashley . . . . .	1912	7,711	9,071.92	1.18	.91	Ann Arbor tar-concrete
28	W. Lib. Ashley to City Limits	1913	15,612	20,836.90	1.34	.98	Ann Arbor tar-concrete
29	W. Huron, Ashley to Forks..	1913	14,131	19,257.61	1.36	1.01	Ann Arbor tar-concrete
30	Church, Washte to Prospect.	1914	11,832	14,802.93	1.25	.98	Ann Arbor tar-concrete
31	Hill, State to Washtenaw Av..			(Not completed)			



32	Ann. Main to First St.....	1915	2 095	2,740.80	1.33	1.02	Reinforced concrete
33	Jeff. Fifth Av. to State.....	1915	4,924.2	8,665.40	1.62	1.30	Asphaltic concrete
34	Division, Detroit to Packard..	1915	14,372.5	24,733.97	1.60	1.29	Asphaltic concrete
35	Geddes Av., Oxford to Oswego	1915	3,273.0	5,431.55	1.66	1.19	Reinforced concrete
36	Catherine and Miller Av.....	1916	9,596	22,629.31	2.36	1.95	Brick on concrete base
37	Alley, block 2 south, R. 3 E...	1918	470	839.29	1.78	1.59	
38	Broadway, Swift to M. C. Vi- aduct . . . . .	1919	3,521	14,881.66	4.23	3.55	Brick on concrete base
39	Detroit, Catherine to M. C. Vi- aduct. . . . .	1919 & 1920	7 278 8	31,350.03	4.30	3.37	Brick on concrete
40	Catherine, 4th Av. and De- troit . . . . .	1919 & 1920	6,188	26,419.46	4.26	3.37	Brick on concrete
41	Jackson Av., Forks to City Lim.	1919	5,982	19,746.43	3.30	2.38	Asphaltic concrete
42	Thayer, Huron to N Univ Av.	1919	2,528	7,648.54	3.03	2.25	Asphaltic concrete
43	E. Univ. Wash. to Hill. 1919 &	1920	9,043	28,928.46	3.19	2.40	Asphaltic concrete
44	S. University, State to Ox- ford . . . . .	1919 & 1920	11,474	39,182.84	3.41	2.40	Asphaltic concrete
45	Alley, block 3 S., R. 3 E.....	1920	503	1,506.23	3.00	....	Concrete
46	Alley, block 2 N., R. 3 E.....	1921	471	992.57	2.11	....	Concrete
47	Alley, block 3 N., R. 4 E.....	1921	978	1,769.85	1.79	....	Concrete
48	State, Huron to Fuller.....	1922	4,962	29,923.48	....	2.51	Sheet asphalt
			3,423			3.79	Brick
49	Hill, Packard to Washtenaw..	1922	11,806	35,383.57	3.00	2.51	Sheet asphalt
50	Packard, Gra ger to City Lts..	1922	5,602	17,129.92	3.06	2.51	Sheet asphalt
51	Cross Packard to Division....	1922	811	1,925.32	2.73	....	Concrete
Grand Total . . . . .			314 634	\$648,651.04	....	....	

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

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

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

Note.—Pavement between car tracks is not included.

Four doz. push brooms . . . . .	33 60	
Freight on brooms	3.41	
		198.29
Depreciation of sweeper	600.00	
Repairing stand pipes...	23.85	
		600.00
Total cost . . . . .	\$ 8,406.76	

Motor sweeper used 195 days.  
 No. sq. yards cleaned during season—39,025,000.  
 Cost of cleaning per 1000 sq. yards—\$0.21½.

**Street Work**

Cleaning gutters on dirt streets . . . . .	\$ 3,290.09	
Grading streets with graders and road drags . . . . .	1,481.63	
Drawing cinders . . . . .	869.53	
Mowing weeds . . . . .	621.76	
Digging out trees ordered by Board . . . . .	126.25	
Drawing and burning leaves from streets . . . . .	639.38	
Cleaning alleys . . . . .	38.90	
Streets graded . . . . .	4,440 70	
Cutting brush on Chubb Read and Brooks St. . . . .	16.00	
Cleaning snow from walks . . . . .	128 00	
Cleaning snow from gutters and cleaning paved streets . . . . .	412.68	
Graveling streets and patching—labor and trucks . . . . .	2,377.62	
Killins & Son, gravel . . . . .	\$5,082.00	
Ann Arbor Sand & Gravel Co., gravel . . . . .	736.10	
Emil Schallhorn, gravel . . . . .	831.25	
Unv. of Mich., paid for filling . . . . .	77.25	
		6,726.60
Transport Truck—		
Gasoline \$796.66; lubricating oil and grease \$45.76 . . . . .	832.42	
Repairs \$93.85; maintenance \$54.85 . . . . .	148.70	
Federal Truck—		
Gasoline \$617.41; lubricating oil and grease \$38.21 . . . . .	655.62	
Two solid 12 in. tires . . . . .	324.77	
Repairs and maintenance . . . . .	310.50	

Cleveland Tractor No. 1—		
Gasoline \$235.46; lubricating oil and grease \$33.49 . . . . .	268.93	
Repairs and maintenance . . . . .	480.84	
Cleveland Tractor No. 2—		
Gasoline \$143.35; lubricating oil and grease \$12.05 . . . . .	155.40	
Repairs and maintenance . . . . .	146.33	
Ford Roadster—		
Gasoline \$98.65; oil \$5.64 . . . . .	104 29	
Repairs and maintenance and 5 new tires . . . . .	190.62	
Scarifying streets . . . . .	964.68	
Supplies, coal and maintenance for scarifyer . . . . .	214 60	
Treating streets with calcium chloride . . . . .	\$3,471.15	
Paid by property owners . . . . .	1,841.27	
		\$1,629.88
Remaining calcium chloride sold . . . . .	99.75	
Total cost to city . . . . .	\$1 530 13	1,530.13
Treating streets with road oil . . . . .	\$3,941.99	
Paid by property owners . . . . .	3,208.03	
Total cost to city . . . . .	\$ 733.96	733 96
Spreading tarvia on concrete pavements—		
15,062 gals. tarvia . . . . .	\$1,516.39	
Birds Eye gravel . . . . .	680.33	
Freight on gravel . . . . .	499 31	
Unloading and distributing gravel on pavement . . . . .	422.36	
Applying tarvia and spreading gravel . . . . .	636.26	
Coal for heating tarvia . . . . .	18.16	
Clearing gravel from pavement . . . . .	27.45	
Total cost of applying tarvia . . . . .	\$3,800.26	3 800 26

No. of yards covered about 61,000 sq. yrds.		
Cost per sq. yard—\$0.06 1-6.		
Repairing pavement with tarvia XC—		
Barrett Co., 12 barrels of tarvia XC . . . . .	\$ 96.32	
Freight on above	14.96	
Two pouring pots and freight	14.83	
Two barrels of tarvia C and freight . . . . .	25.91	
Labor and team	105.90	257.92

**Total cost . . . . . \$32,289.11**  
**Sidewalk Extensions, Crosswalks, Culverts, Etc.**

Labor . . . . .	\$ 2,812.49
Cement, 1269 sacks . . . . .	766.64
Gravel for concrete, 255 yards . . . . .	573.75
Brick, used brick from yard, 4,150 @ \$20.00 per M . . . . .	83.00
Kerosene for red lights . . . . .	29.36
Lanterns, axes etc. . . . .	19.85
Sharpening picks . . . . .	16.75
Oak lumber \$56.85; elm lumber, \$34.24 . . . . .	91.09
Expansion joints and freight . . . . .	18.75
Inlet \$16; 1 grade \$4.65 . . . . .	20.65
Tile . . . . .	13.90

**Total . . . . . \$ 4,446.23**  
 Crosswalks built—82.  
 Extensions—12.

**Sidewalks Constructed in 1922**

Grading for new walks . . . . .	\$ 1,497.21
Sidewalks constructed by A. F. Thompson, as per contract . . . . .	4,611.08
Construction of cement walk, corner 4th Ave. Ann St. . . . .	39.24
Sidewalk, constructed by Ann Arbor Asphalt Co., Carey St. . . . .	89.64
<b>Total . . . . .</b>	<b>\$ 6,237.17</b>

**Sewer Work**

South Division St. sewer, labor . . . . .	\$ 204.10
Broadway storm sewer, labor . . . . .	241.71
Unloading tile for Broadway sewer . . . . .	10.80
Fourth Ave. storm sewer, labor . . . . .	106.65

Cleaning storm sewer at yard . . . . .	16.00
Flushing storm sewer . . . . .	5.90
Cleaning ditch at Hoover Ave. . . . .	28.20
Cleaning ditch between Hill and Madison, along railroad track . . . . .	18.90
Drawing brick Dexter Ave. sewer . . . . .	4.06
Cleaning drain, Washenaw Ave. . . . .	4.00
Cleaning inlets and storm sewers . . . . .	361.97
<b>Total . . . . .</b>	<b>\$ 1,001.59</b>

**Paving and Pavements Repaired**

Cross St. pavement . . . . .	\$ 1,907.41
Repairing pavement, Alley, eas. side Main between Liberty and William . . . . .	28.60
Repairing pavements—	
Labor . . . . .	\$456.02
Cement . . . . .	312.64
Gravel . . . . .	219.00
<b>Total . . . . .</b>	<b>\$ 2,923.67</b>

**General Work and Repairs**

House at City yard, painting and papering . . . . .	\$ 422.26
Installing electric light at house at city yards . . . . .	70.00
Repairs at house . . . . .	35.50
Constructing bridge at Henry St.—	
Labor . . . . .	\$ 9.45
Bridge timber . . . . .	18.00
Plank . . . . .	34.24
<b>Total . . . . .</b>	<b>61.69</b>
Painting police garage . . . . .	7.80
Repairing culverts . . . . .	158.50
Repairing roof at city yard . . . . .	9.31
Building fence at city yard . . . . .	23.35
Repairing wall on Fifth ward voting precinct . . . . .	18.00
<b>Total . . . . .</b>	<b>\$ 806.41</b>

**Miscellaneous Work**

Overhauling cement mixer . . . . .	\$ 2.60
Cutting up brush and trees and drawing brush . . . . .	271.19
Installing traffic signals Police Dept.—	
Labor . . . . .	\$42.13
Cement . . . . .	3.90

Brick . . . . .	7.20
Repairing broken curb..	24.50
Pumping water out of flooded cellars . . . . .	23.80
Foundation for drinking fountain . . . . .	9.30
Setting up new grader..	4.60
Repairing snow plows..	1.95
Unloading cement . . . . .	31.50
Drawing coal to city hall	20.80
Repairing pump at garage . . . . .	4.00
Drawing ashes from city hall . . . . .	6.45
Drawing and piling up brick at yard. . . . .	25.75
Drawing coal for poor..	4.45
Unloading coal . . . . .	22.05
Digging out cement culvert at E. Ann St. . . . .	7.20
Repairing railing, M. C. R. R. bridge. . . . .	9.45
Volz & Son, cutting off hitching posts . . . . .	18.50
Setting parking signs..	.80
Pumping water from cemetery reservoir. . . . .	7.80
Setting manhole cover at drinking fountain . . . . .	10.80
Setting manhole cover at Washtenaw Ave. . . . .	9.00
Sprinkling Packard St. on circus day. . . . .	3.56
Setting up fence on Broadway . . . . .	13.30
Drawing load of iron to foundry . . . . .	1.78
Cleaning cement sacks..	23.25
Unloading cement from car to cement house..	18.50
<b>Total . . . . .</b>	<b>\$ 630.11</b>

**General Supplies**

D. J. Malloy. . . . .	\$ 88.29
Wolf and Colvin. . . . .	168.85
Jno. C. Fischer Hdwe. Co. . . . .	62.50
Schumacher Hdwe. Co..	89.68
Hutzel & Co. . . . .	49.78
Sauer & Co. . . . .	43.48
Luick Bros. & Co. . . . .	69.84
Ann Arbor Impl Co. . . . .	11.00
Wm. Rohde . . . . .	75.35
Jno. A. Sauer . . . . .	19.20
Mayer, Schairer & Co. office supplies . . . . .	42.66
Schlenker Hdwe. . . . .	12.20
Wehr & Co., 1 scraper block . . . . .	10.00
Hertler Bros. . . . .	6.45
Schlenker Hdwe. . . . .	3.85
Scraper blades and	

freight . . . . .	43.65
New parts for road grader . . . . .	61.21
Two pair rubber boots..	9.50
<b>Total . . . . .</b>	<b>\$ 867.49</b>

**City Team**

Hay . . . . .	\$ 80.90
Oats . . . . .	178.56
Corn . . . . .	6.00
Straw . . . . .	14.13
Unloading hay. . . . .	2.80
Dr. Lane . . . . .	3.00
Harness repairs..	113.55
<b>Total . . . . .</b>	<b>\$ 1,266.43</b>

**Machinery and Supplies Ordered by Board**

1 Aurora special. . . . .	\$ 450.00
1 Cletrac . . . . .	1,395.00
Waste paper cans. . . . .	204.00
1 Troy wagon . . . . .	\$170.72;
freight \$15.08 . . . . .	185.80
1 Fresno scraper \$23.15;	
freight 93c . . . . .	24.08
<b>Total . . . . .</b>	<b>\$ 2,258.88</b>

**Recapitulation**

Cleaning paved streets..	\$ 8,406.76
Street work . . . . .	32,289.11
Sidewalk extensions, Crosswalks and culverts . . . . .	4,446.23
New sidewalks constructed, and grading. . . . .	6,237.17
Sewer work . . . . .	1,001.59
Paving and pavements repaired . . . . .	2,922.67
General work and repairs . . . . .	806.41
Miscellaneous work . . . . .	630.11
General supplies . . . . .	1,266.43
Machinery and supplies ordered by Board. . . . .	2,258.88
<b>Total . . . . .</b>	<b>\$60,266.36</b>

**Inventory, Street Department, 1922**

1—2 1-2 ton Transport truck . . . . .	\$ 3,200.00
1—5 ton Federal truck.	1,700.00
1 Ford runabout. . . . .	125.00
1 Cleveland tractor. . . . .	500.00
1 Cletrac tractor. . . . .	1,000.00
1 Kelly Springfield roller	4,000.00
1 Elgin motor sweeper..	1,700.00
1 Efcote cement mixer..	300.00
1 team of horses. . . . .	400.00
1 set of harness. . . . .	25.00
1 pair of stable blankets	4.00
1 pair of storm blankets	10.00

1 pair of woolen blankets	5.00	3 hatchets	2.00
1 Troy wagon, new....	170.00	1 ladder	2.00
1 Western dump wagon.	25.00	1 sand screen.....	2.00
1 Stulebaker sprinkling wagon . . . . .	100.00	1 cross-cut saw	5.00
1 20th Century grader..	75.00	5 axes . . . . .	7.50
1 platform scale.....	400.00	3 wedges . . . . .	1.00
4 steel snow plows.....	150.00	1 bolt cutter . . . . .	1.00
2 snow plows.....	80.00	1 brace and bit.....	1.00
10 snow plows.....	50.00	21 red lanterns.....	15.00
1 pair bob sleighs.....	20.00	3 levels . . . . .	6.00
1 gasoline pump.....	375.00	4 scythes . . . . .	8.00
1 Austin oil spreading machine . . . . .	450.00	1 hedge scythe . . . . .	3.00
1 tar tank on wheels....	50.00	4 grub hoes . . . . .	4.00
1 tar tank on wheels....	40.00	11 picks . . . . .	14.00
1 small tar Kettle on wheels . . . . .	40.00	2 tampers . . . . .	2.00
1 tool box on wheels....	10.00	3 hand-saws . . . . .	3.00
1 calcium chloride spreader . . . . .	20.00	1 mortar box . . . . .	2.00
3 motor brooms, filled..	60.00	2 scoop shovels . . . . .	1.50
500 lbs. broom fiber, @ \$0.07 . . . . .	35.00	2 short-handled shovels.	2.00
2 slip scrapers . . . . .	15.00	3 paving hammers . . . . .	2.50
1 Fresno scraper.....	20.00	4 crowbars . . . . .	6.00
2 wagons . . . . .	25.00	2 Knowells street scrapers . . . . .	6.00
1 wagon with box.....	40.00	2 hose nozzles.....	2.00
1 diaphragm pump.....	15.00	2 rakes . . . . .	3.00
1—50 gallon oil tank... 10.00	10.00	3 pair rubber boots....	7.50
50 feet of 1 inch hose... 2.50	2.50	1 wagon jack . . . . .	4.00
1 grindstone . . . . .	8.00	1 R. R. jack.....	5.00
Hay, 1-2 ton.....	7.00	1 jack . . . . .	3.00
Oats, 40 bushels @ 56c per bu. . . . .	22.40	1 post-hole digger.....	1.00
2 tar tanks and boiler.. 1.250.00	1.250.00	2 pitch forks . . . . .	2.00
1 Wehr road grader.... 1.250.00	1.250.00	2 stone forks . . . . .	2.00
1 Aurora grader, special 400.00	400.00		
1 Aurora grader..... 300.00	300.00		
1 Western grader..... 100.00	100.00		
3 road drags . . . . .	30.00		
3 two-wheeled carts.... 25.00	25.00		
1 two-wheeled scraper.. 10.00	10.00		
1 lot of 1 inch pipe.... 20.00	20.00		
1 tar kettle . . . . .	10.00		
1 broom filler.....	70.00		
5 wheelbarrows . . . . .	25.00		
2 log chains.....	4.00		
1 extra heavy R. R. chain 4.00	4.00		
2 sledge hammers..... 3.00	3.00		
1 stencil and alphabet.. 1.00	1.00		
1 oil can . . . . .	.50		
1 two-horse mower.... 5.00	5.00		
1 set cement tools..... 2.50	2.50		
20 sewer jacks.....	45.00		
1 rooter . . . . .	5.00		
4 barley forks . . . . .	6.00		
50 feet fire hose . . . . .	20.00		
1 grindstone . . . . .	10.00		
2 hoes . . . . .	1.00		
8 snow shovels.....	12.00		
1 spade . . . . .	1.00		
1 cement trowel and finisher . . . . .	19.00		

Total . . . . . \$19,029 90

#### Building Material on Hand

15—24 in. sewer tile....	\$ 24.90
1—24 in. elbow.....	13.32
2—18 in. elbows.....	14.80
2—15 in. elbows.....	10.66
2—12 in. elbows.....	3.56
24—20 in. sewer tile....	23.04
7—1' in. sewer tile....	3.15
20—15 in. sewer tile....	13.20
3—10 in. sewer tile....	1.28
72 cross walk plates....	216.00
4000 old brick.....	80.00
5000 new brick.....	200.00
400 ft. oak lumber.....	10.00
Old lumber . . . . .	50.00
8 bags cement.....	4.48

\$ 668.39

#### In the matter of Hartwig H. Herbst vs Res. Gaenger and Herbert W. Crippen

This is the matter regarding the taxation on property deeded by Hartwig H. Herbst to the University of Michigan wherein the said Hartwig H. Herbst received some income from the property under certain stipulations and conditions contained in the deed and agree-

ment made with the University.

This property was assessed in 1920 against the University and was afterwards set aside for the reason that the fee to the property was in the University of Michigan. In 1921 it was assessed as personal property and in 1922 as life estate. An action was started by Mr. Herbst in chancery to restrain collection of the tax for 1921, which case has been settled and the assessment on the property which Mr. Herbst is to pay a tax is as follows: 1920, on the basis of \$200 assessment; 1921 \$3000 assessment; 1922 \$4,000 assessment and \$4,000 assessment each and every year thereafter for such time as Mr. Herbst shall receive the rents from the property deeded to the University.

This matter is submitted to you for your consideration and approval.

R. O. Bonisteel, City Attorney  
A. D. Groves, Chairman of Finance Committee, Robert Norris, Mark B. Sudden, Finance Committee,

City Attorney presented the following agreement:

Whereas, Hartwig H. Herbst deeded to the University of Michigan the following described property:

Lots numbered twenty nine (29) and thirty (30) and the south half of Lot numbered thirty two (32), C. T. Wilmot's Addition to the City of Ann Arbor; also, the east forty (40) feet of Lot numbered thirty one (31) in said addition; also, a parcel of land off the northwest corner of lot four (4) in Ward's Subdivision according to the recorded plat of said C. T. Wilmot's Addition and Ward's Subdivision

And whereas, said Hartwig H. Herbst is receiving the rents and profits from said property, under certain stipulations and conditions between himself and the Regent of the University of Michigan.

Therefore, it is hereby agreed that the said Hartwig H. Herbst shall be assessed to pay taxes on the following assessment of the rate fixed for the years mentioned. For the year 1920, \$2,500; 1921, \$3,000; 1922 \$4,000, and \$4,000 for each year thereafter until he shall fail to receive the rents or profits from said property.

That the said taxes shall be paid to the City Treasurer on the foregoing described basis within the next fifteen days. A copy of this

agreement to be presented to the said City Treasurer of the City of Ann Arbor, Michigan and all assessments and proceedings against the said Hartwig H. Herbst on the rolls of the City Assessor and Treasurer's books, as to said property, be declared void

Hartwig H. Herbst Roscoe O. Bonisteel, City Attorney.

Dated Feb. 2 1923.

Moved by Ald. Groves, that Council accept agreement

Adopted by following vote: Yeas, Ald. Johnson, Haarer, Graf, Henderson, Lucas, Groves, Moore, Spahelf, White, Norris Pres. Sugden. 11. Nays, Ald. Freeman, 1

### Distribution of Cost of Public Improvements

To the Honorable Board of Public Works, Ann Arbor, Mich. Gentlemen:

I submit the following total cost and distribution of cost of pavements:

District No. 48—  
City Share .....\$11,571.52  
Property Share ..... 18,351.96

Total cost .....\$29,923.48  
District No. 49—  
City Share .....\$12,053.54  
Property Share ..... 23,330.03

Total cost .....\$35,383.57  
District No. 50—  
City share .....\$ 6,963.66  
Property share ..... 10,166.26

Total cost .....\$17,129.92  
and the following total cost and distribution of cost of sanitary sewers:

District No. 110—  
City share .....\$ 222.17  
Property share ..... 1,335.48

Total cost .....\$ 1,557.65  
District No. 112—  
City share .....\$ 446.55  
Property share ..... 555.96

Total cost .....\$ 1,002.51  
District No. 113—  
City share .....\$ 54.48  
Property share ..... 700.00

Total cost .....\$ 754.48  
District No. 114—  
City share .....\$ 102.09  
Property share ..... 773.43

Total cost .....\$ 875.52  
District No. 115—  
City share .....\$ 278.01

Property share .....	3,672.00
Total cost .....	\$ 3,950.10
District No 116—	
City share .....	\$ 37.23
Property share .....	568.10
Total cost .....	\$ 605.33
District No. 117—	
City share .....	48.62
Property share .....	540.11
Total cost .....	\$ 588.73
District No 118—	
City share .....	\$ 628.39
Property share .....	280.18

Total cost .....

and the following total cost of storm sewers:

Broadway from Traver Creek to Jones-st. Total cost, \$777.28.

Brooks-st. Total cost, \$4,821.69.

Woodlawn-Packard - Wells -Forest-av. Total cost \$30,860.87.

I submit the following revised report of total cost and the distribution of cost of the Forest-av Curb and Gutter Dist. 44

City share .....	\$1,016.87
Property share .....	849.74

Total cost .....

Respectfully submitted,

Geo. H. Sandenburgh

City Engineer.

Approved by Board of Public Works Jan 31<sup>st</sup>, 1923.

By Ald. Spathelf:

Resolved that the City Engineer's report of cost and distribution of cost of construction of pavements in Districts Nos. 48, 49 and 50; and sanitary sewers in Districts Nos. 110, 112, 113, 114, 115, 116, 117 and 118; and revised report of cost and distribution of cost of curb and gutter in District No. 44, be approved and the City Clerk is hereby instructed to certify the same to the City Assessor.

Resolved, further, that the City Engineer's report of cost of construction of storm sewer be approved.

Adopted by following vote: Yeas. Ald. Johnson, Haarer, Graf, Henderson, Lucas, Groves, Moore, Spathelf, White, Freeman, Norris, Pres. Sugden, 12. Nays, none

### City Engineer's Reports Re-Proposal Service Stations

To the Honorable Common Council,  
Ann Arbor, Michigan.

Gentlemen:

I beg to submit the following re-

port on the petition of the Sinclair Refining Co. to locate a gas-line filling station at the intersection of Jackson ave and Dexter ave.

On examination of the number of signers signing the petition favoring the establishment of the gasoline filling station on the above mentioned property I find that they have secured the required number of signatures

Respectfully submitted,

Geo. H. Sandenburgh.

City Engineer.

Moved by Ald Henderson, that petition be granted.

Motion lost by following vote: Yeas. Ald. Henderson, Groves, Moore, Spathelf, White, Norris, 6. Nays, Ald. Johnson, Haarer, Graf, Lucas, Freeman, Pres. Sugden, 6.

To the Honorable Common Council,

Ann Arbor, Mich.

Gentlemen:

I beg leave to submit the following report on the petition of the Sinclair Refining Company for permission to install a gasoline filling station at the southwest corner of State and Packard streets.

After making a careful survey of the number of property owners in the district I find there is a total of 58. According to the petition as submitted to me I find that 40 property owners have given their consent to the establishment of a gasoline filling station on this property. The necessary number of signers to fulfill the requirements of the ordinance is 38. I therefore certify that the required number of consents have been secured.

Respectfully submitted,

Geo. H. Sandenburgh.

City Engineer

Moved by Ald Norris, that this matter be laid over until next meeting and that a public hearing on same and on the petition to locate service station at Jackson and Dexter avenues be held at the call of President Sugden.

Adopted by following vote: Yeas: Ald. Johnson, Haarer, Graf, Henderson, Lucas, Groves, Moore, Spathelf, White, Freeman, Norris, Pres. Sugden, 12. Nays, none

In re The matter of petition of the Sinclair Refining Company for a permit to install oil filling station at the northeast corner of Main and Packard Streets.

The foregoing matter was referred to the City Engineer and the City

Attorney at the last meeting of the Council held January 15, 1923.

Inasmuch as the provisions of the ordinance require permits to be granted only in cases where 75 per cent of the buildings in the district are exclusively residential or educational, we find that this district is a business district and does not require the issuance of a permit for the installation of a gasoline filling station.

Geo. H. Sandenburgh, City Engineer  
R. O. Bonisteel, City Attorney.

No action taken.

It was reported that the Sinclair Refining Company proposed to deed to the City a parcel of land at corner of Main and Packard sts. for street purpose and the matter was referred to City Attorney and City Engineer.

By Ald. Johnson:

Resolved that the present election commissioners, John T. Kenny, George H. Fischer and John Huss be re-appointed as election commissioners for the ensuing year.

Adopted by following vote: Yeas, Ald. Johnson, Haarer, Graf, Henderson, Lucas Groves, Moore, Spat-helf, White, Freeman, Norris, Pres. Sugden, 12. Nays, none.

By Ald. Haarer:

Resolved, that the Finance Committee be authorized to purchase within ten days a copying or reproducing machine and that hereafter the City Clerk shall have available in his office for each and every member of the Council a copy of every new or amended ordinance not later than the opening of Council meeting at which said ordinance is to be given its first reading, and

no ordinance shall be given its first reading unless presented by a member of ordinance committee to the City Clerk in ample time to permit the City Clerk to prepare the required number of copies.

Adopted by following vote: Yeas, Ald. Johnson, Haarer, Graf, Henderson, Lucas Groves, Moore, Spat-helf, White, Freeman, Norris, Pres. Sugden, 12. Nays, none.

By Ald. Lucas:

Resolved, By the Common Council of the City of Ann Arbor, that the time wherein the Treasurer of the City of Ann Arbor should make his returns to the County Treasurer of the County of Washtenaw for the taxes assessed for the year 1922 be and the same is here extended to and including the twenty-eighth day of February A. D. 1923.

Adopted by following vote: Yeas, Ald. Johnson, Haarer, Graf, Henderson, Lucas Groves, Moore, Spat-helf, White, Freeman, Norris, Pres. Sugden, 12. Nays, none.

President Sugden announced that Council would meet as a committee of the whole to consider water rates and taxation Feb. 14, 1923, at 7:30 o'clock p. m.

City Clerk announced that Council would appoint City Physician and Poor Commissioner at next regular meeting.

Ald. Haarer, Chairman of Ordinance Committee, made oral report that Committee expected to present zoning ordinance at next meeting.

On motion of Ald. Henderson, Council adjourned.

Isaac G. Reynolds  
City Clerk.