

MEMO



TO: CITY OF WICHITA
ENGINEERING DEPARTMENT
455 N. MAIN

PROJECT NO. 36-84510-1014
PROJECT: WESTWAY ADDITION

ATTN: VICKI HUANG
DATE: 2-5-86

COPIES TO:

LOUISE OLIVAREZ MAPD

FROM: CHARLES S. BROWN, P.E.

REFERENCE: DRAINAGE CONCEPT

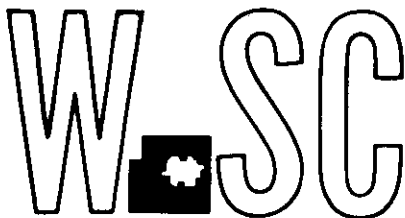
PLEASE ADVISE IMMEDIATELY OF ANY MISCONCEPTIONS OR OMISSIONS YOU BELIEVE TO BE CONTAINED HEREIN.

TRANSMITTED HERewith ARE TWO (2) COPIES OF THE DRAINAGE CONCEPT FOR THE PROPOSED WESTWAY ADDITION TO WICHITA, KANSAS.

THE PRELIMINARY PLAT WAS SUBMITTED ON FRIDAY, JANUARY 31, 1986 FOR HEARING BY THE SUBDIVISION COMMITTEE ON THURSDAY, FEBRUARY 13, 1986.

PLEASE ADVISE IF YOU HAVE ANY QUESTIONS OR NEED ANY ADDITIONAL INFORMATION.

WICHITA - SEDGWICK COUNTY



METROPOLITAN AREA PLANNING
DEPARTMENT

CITY HALL - TENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4561

February 12, 1986

Robert L. & W. Elaine Halberg
2150 N. Meridian, Apt. 2907
Wichita, KS 67204

Re: L/S-0669 - Request for lot split approval of Lot 11,
Maple Lane Addition, Sedgwick County, Kansas.
Generally located on the west side of Arapaho Drive,
in an area south of Maple.

Dear Mr. & Mrs. Halberg:

We have completed our review of the above-referenced request for lot split approval and find that approval can be granted subject to the following conditions:

- A. Grant, by separate instrument, the two feet of additional utility easement that is indicated on your lot split drawing. (Proper form enclosed.
- B. Execute the enclosed avigational easement and associated restrictive covenant.
- C. Obtain approval from the Health Department for use of a private water well on this property. In addition, City Engineering requires a signed petition to be held for the future extension of municipal water in Arapaho. Please contact the Engineering Department relative to the water petition requirement and the Health Department regarding what standards and tests must be met for approval of a water well for this site.

Once the above-stated approval conditions have been met, we will approve this lot split request. Should you have any questions about what is required, please call me at 268-4421.

Sincerely,

Barbara R. Bonanni

Barbara R. Bonanni
Junior Planner

BRB:mlh

cc: Baughman Company, P.A., 330 Laura, Wichita, KS 67211
✓ Carl Gipson, Civil Engineer III

C
O
P
Y

S/D No.: 86-16 Name: WESTWAY ADDITION

Preliminary Approved:
Scheduled S/D Meeting: 2/13/86

DESCRIPTION

General Location: At the southwest corner of Pawnee and Seneca.
Owner: Phil Ruffin, Attn: Gary Snyder, P.O. Box 17087, Wichita, KS 67217
Surveyor/Engineer: Professional Engineering Consultants, P.A.

1. Gross Acreage of Plat: 37.1+ Acres
 2. Number of Lots:
 - Residential:
 - Office:
 - Commercial: 3
 - Industrial:
 - Total: 3
 3. Minimum Lot Area: 2.4 Acres +
 4. Existing Zoning: "LC" & "BB" (DP-21)
 5. Proposed Zoning: "LC" & "BB" (DP-21)
-

STAFF COMMENTS:

NOTE: The applicant's associated zone change, requesting "BB" (office) to "LC" (light commercial), has been approved for a portion of Lot 1, Block 1 subject to replatting. This plat is subject to the provisions of the Westway Shopping Center Community Unit Plan (DP-21).

- A. On the final plat, the 90-feet of "complete access control" being platted to Crawford Street, across the east 90 feet of the south line of Lot 1, Block 1, shall be labeled.
- B. On the final plat, bearings and distances shall be provided for the centerline of easements on this property.
- C. Since this plat proposes the vacation of an existing 20-foot wide sanitary sewer easement on Lot 1, Block 1, appropriate reference to K.S.A. 12-512(b) shall be made in the engineer's text.
- D. On the final plat, a dimension indicating the amount of half-street right-of-way existing for each of the adjacent streets shall be provided.
- E. The applicant shall install or guarantee the installation of all utilities and facilities which are applicable and described in Article 8 of the MAPC Subdivision Regulations.
- F. Requirements for a final plat (see pages 20-25, Part 4, Article 5 of the MAPC Subdivision Regulations).
- G. The representatives from City and Traffic Engineering should be prepared to address the question of whether additional major street intersection right-of-way is needed from the northeast corners of Lot 1, Block 1. Specifically, has this major street intersection been constructed in such a fashion as to not require additional rights-of-way?
- H. The representative from the City Engineer's office should be prepared to comment on the status of the applicant's drainage concept for this property. As pointed out at the time of Community Unit Plan approval, Lots 1 and 3 have been developed with previously approved drainage systems.
- I. The representative from the City Engineer's office should be prepared to comment on the acceptability of the proposed sewer easement vacation on Lot 1, Block 1. Specifically, does this vacation require any guarantees to be submitted with this plat?

Mike

S/D No.: 86-16 Name: WESTWAY ADDITION

Preliminary Approved: 2/13/86
Scheduled S/D Meeting: 5/22/86

DESCRIPTION

General Location: At the southwest corner of Pawnee and Seneca.
Owner: Phil Ruffin, Attn: Gary Snyder, P.O. Box 17087, Wichita, KS 67217
Surveyor/Engineer: Professional Engineering Consultants, P.A.

1. Gross Acreage of Plat: 37.1 Acres +
2. Number of Lots:
 - Residential:
 - Office:
 - Commercial: 3
 - Industrial:
 - Total: 3
3. Minimum Lot Area: 2.4 Acres +
4. Existing Zoning: "LC" & "BB" (DP-21)
5. Proposed Zoning: "LC" & "BB" (DP-21)

STAFF COMMENTS:

NOTE: The applicant's associated zone change, requesting "BB" (office) to "LC" (light commercial) has been approved for a portion of Lot 1, Block 1 subject to replatting. This plat is subject to the provisions of the Westway Shopping Center Community Unit Plan (DP-21).

- A. A requirement of preliminary plat approval was the contingent dedication of the major street intersection right-of-way needed for Seneca and Pawnee at the northeast corners of Lot 1, Block 1. The final plat tracing shall indicate the contingent dedication of this additional right-of-way.
- B. On the final plat tracing, the plattor's text shall reference that the proposed contingent street dedication is contingent upon the City's need for the right-of-way for a future street widening project.
- C. On the final plat tracing, the existing half-street rights-of-way for Elizabeth Street to the west and Crawford Street to the south shall be indicated.
- D. Perimeter closure computations shall be submitted with the final plat tracing. Section 5-101(C).
- E. Recording of the plat within 30 days after approval by the Board of City Commissioners.
- F. The representative from the City Engineer's office should be prepared to comment on the status of the applicant's drainage plan. Specifically, are any drainage guarantees required with the replatting of this property.

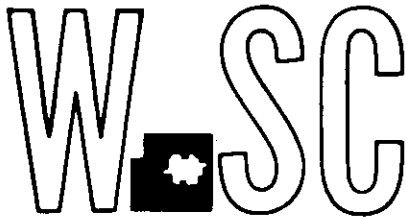
Pre Sob - 2-13-80

①

1. Keith L. Anderson. Vacation of complete access control. No water problem unless new drive locations require fire hydrant relocation. Any fire hydrant relocation shall be at the request of the developer and at the expense of the developer.
2. Peake Company Inc. . Vacation of a portion of building setback. No water problem.
3. Donald G. & Shery L. Abraham. Vacation of building setback. No water problem.
4. Harriett Morris. Vacation of Access control. No water problem.
5. Ernest H. Doyon. Vacation of utility easement. No water problem.
6. Walenta 3rd Addition. Final Plat. Property now served by main in Oliver, no water problem.
7. The Nett Park Addn. Final Plat. Item B, mains to be extended. Is there a method by which when the supply line in Main Rd. is extended that this area share in the assessment? Or, because of no benefit should they be left out entirely?
8. Gray's First Addition. Preliminary Plat. Item D, mains to be extended. Nearest water at Eisenhower at Mac Arthur Rd, Nearest supply line at Hoover and 37th St. South.
9. Westway Addn. . Preliminary Plat. Existing mains in Pawnee and Seneca, no water problem. Interior line serves existing structure. Main tie-in on Elizabeth, north of Savannah was not shown.

10. Woodbridge 3rd Addn. Item B, mains to be extended. No water problem.
11. Mulberry East Addn. Final Plat. Item B, mains to be extended from 37th St. N. and Rock Rd.
12. Eastminster Addition. Final Plat. Item B, mains to be extended. No water problem.
13. U.S.D. 259. Dedicote St. R/W. No water problem.
14. Delmer and Marilyn Parr. Dedicote St. R/W. No water problem.
15. Delmer and Marilyn Parr. Grant access control. No water problem.
16. Delmer and Marilyn Parr. Grant utility easement. No water problem.
- 17 Other Matters.

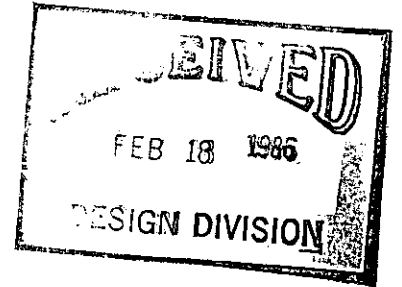
WICHITA—SEDGWICK COUNTY



METROPOLITAN AREA PLANNING
COMMISSION

CITY HALL — TENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4561

February 14, 1986



Professional Engineering Consultants, P.A.
1440 East English
Wichita, KS 67211

Re: S/D 86-16 - Preliminary Plat of Westway Addition.

Gentlemen:

At the regular meeting of the Subdivision Committee of the Metropolitan Area Planning Commission on Thursday, February 13, 1986, the above-captioned plat was considered. The action of the Committee was to approve the preliminary and authorize preparation of the final plat, subject to the following:

- A. On the final plat, the 90-feet of "complete access control" being platted to Crawford Street, across the east 90 feet of the south line of Lot 1, Block 1, shall be labeled.
- B. On the final plat, bearings and distances shall be provided for the centerline of easements on this property.
- C. Since this plat proposes the vacation of an existing 20-foot wide sanitary sewer easement on Lot 1, Block 1, appropriate reference to K.S.A. 12-512(b) shall be made in the engineer's text.
- D. On the final plat, a dimension indicating the amount of half-street right-of-way existing for each of the adjacent streets shall be provided.
- E. The final plat shall contingently dedicate additional major street intersection right-of-way needed from the northeast corner of Lot 1, Block 1.
- F. Prior to, or at the time of submitting the final plat, the applicant shall submit a drainage plan to City Engineering for review and approval.
- G. The applicant shall install or guarantee the installation of all utilities and facilities which are applicable and described in Article 8 of the MAPC Subdivision Regulations.

C
O
P
Y

Professional Engineering Consultants, P.A.
Re: S/D 86-16 - Preliminary Plat of Westway Addition.
February 14, 1986
Page 2

H. Requirements for a final plat (see pages 20-25, Part 4, Article 5 of the MAPC Subdivision Regulations).

The enclosed "marked" copy of the plat is for your information and files. If you should have any questions, please call.

Sincerely,

BRB

Barbara R. Bonanni
Junior Planner

BRB:mlh

Enclosure

cc: Phil Ruffin, Attn: Gary Snyder, P.O. Box 17087, Wichita, KS 67217
✓ Mike Lindebak, City Engineer

**BUFFIN
PROPERTIES**

1522 S. Florence
Box 17087
Wichita, Kansas 67217
316/942-7940

February 21, 1986

Dear Sirs,

As per our conversation, enclosed please find a request for verification of certain utilities for Westway Shopping Center.

If you have any questions, please feel free to contact me.

Sincerely,



John E. Woolcott III
Real Estate Department

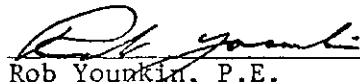
Enclosure:

JEW/aab

The Travelers Insurance Co.
2215 York Rd.
Suite 504
Oak Brook, Illinois 60521

RE: Westway Shopping Center
Located on the Southwest corner of Pawnee and Seneca
Wichita, Kansas

This letter is to advise you that there is and will be available to the project water, storm sewer, sanitary sewer, gas, electrical and telephone service sufficient for the requirements of the occupants of said project. Any further details needed regarding this service can be obtained from the undersigned at 268-9505.



Rob Younkin, P.E.
Civil Engineer III



Date 5-16-86 Page 1 of 4

Project Westway

Item Drainage

SUBAREA No. 1

A. Existing Conditions

$$Q = CIA$$

$$C = 0.3$$

$$t_c = 45 \text{ min}$$

$$I_2 = 2.08$$

$$I_{100} = 4.38$$

$$A = 7.6 \text{ Ac.}$$

$$Q_2 = 0.3 \times 2.08 \times 7.6$$

$$Q_{100} = 0.3 \times 4.38 \times 7.6$$

$$Q_2 = 4.7 \text{ cfs}$$

$$Q_{100} = 10.0 \text{ cfs}$$

$$\text{Depth of St. Flow} = 0.35'$$

$$\text{Depth of St. Flow} = 0.47'$$

B. Proposed Conditions

$$Q = CIA$$

$$C = 0.9$$

$$t_c = 15 \text{ min.}$$

$$I_2 = 3.83$$

$$I_{100} = 7.37$$

$$A = 7.6 \text{ Ac.}$$

$$Q_2 = 0.9 \times 3.83 \times 7.6$$

$$Q_{100} = 0.9 \times 7.37 \times 7.6$$

$$Q_2 = 26.2 \text{ cfs}$$

$$Q_{100} = 50.4 \text{ cfs}$$

$$\text{Depth of St. Flow} = 0.65'$$

$$\text{Depth of St. Flow} = 0.88'$$



Date 5-16-86 Page 2 of 4

Project Westway

Item Drainage

SUBAREA NO. 2

A. EXISTING CONDITIONS

$$Q = CIA$$

$$C = 0.3$$

$$t_c = 45 \text{ min.}$$

$$I_2 = 2.08$$

$$I_{100} = 4.38$$

$$A = 1.3 A_c$$

$$Q_2 = 0.3 \times 2.08 \times 1.3$$

$$Q_{100} = 0.3 \times 4.38 \times 1.3$$

$$Q_2 = 0.8 \text{ cfs}$$

$$Q_{100} = 1.7 \text{ cfs}$$

$$\text{Depth of St. Flow} = 0.17'$$

$$\text{Depth of Street Flow} = 0.24'$$

B. PROPOSED CONDITIONS

$$Q = CIA$$

$$C = 0.9$$

$$t_c = 15 \text{ min.}$$

$$I_2 = 3.83$$

$$I_{100} = 7.37$$

$$A = 1.3$$

$$Q_2 = 0.9 \times 3.83 \times 1.3$$

$$Q_{100} = 0.9 \times 7.37 \times 1.3$$

$$Q_2 = 4.5 \text{ cfs}$$

$$Q_{100} = 8.6 \text{ cfs}$$

$$\text{Depth of Flow} = 0.35'$$

$$\text{Depth of Flow} = 0.44'$$



Date 5-16-86 Page 3 of 4
Project Westway
Item Drainage

SUBAREA NO. 3

A) EXISTING CONDITIONS

$$Q = CIA$$

$$c = 0.3$$
$$t_c = 40 \text{ min.}$$
$$I_2 = 2.24 \quad I_{100} = 4.66$$
$$A = 2.1 \text{ Ac.}$$

$$Q_2 = 0.3 \times 2.24 \times 2.1$$

$$Q_{100} = 0.3 \times 4.66 \times 2.1$$

$$Q_2 = 1.4 \text{ cfs}$$

$$Q_{100} = 2.9 \text{ cfs}$$

$$\text{Depth of St. Flow} = 0.24'$$

$$\text{Depth of St. Flow} = 0.31'$$

B) PROPOSED CONDITIONS

$$Q = CIA$$

$$c = 0.9$$
$$t_c = 15 \text{ min.}$$
$$I_2 = 3.83 \quad I_{100} = 7.37$$
$$A = 2.1$$

$$Q_2 = 0.9 \times 3.83 \times 2.1$$
$$= 7.2 \text{ cfs}$$

$$Q_{100} = 0.9 \times 7.37 \times 2.1$$
$$= 13.9 \text{ cfs}$$

$$\text{Depth of St. Flow} = 0.44'$$

$$\text{Depth of St. Flow} = 0.54'$$



Date May 16, 1986 Page 4 of 4

Project Westway

Item Drainage

SUBAREA NO. 4

A. Existing Conditions

$$Q = cIA$$

$$c = 0.3$$

$$t_c = 20 \text{ min.}$$

$$I_2 = 3.33$$

$$I_{100} = 6.53$$

$$A = 0.8 \text{ Ac.}$$

$$Q_2 = 0.3 \times 3.33 \times 0.8$$

$$Q_2 = 0.8 \text{ cfs}$$

$$Q_{100} = 0.3 \times 6.53 \times 0.8$$

$$Q_{100} = 1.6 \text{ cfs}$$

B. Proposed Conditions

$$Q = cIA$$

$$c = 0.9$$

$$t_c = 15 \text{ min.}$$

$$I_2 = 3.83$$

$$I_{100} = 7.37$$

$$A = 0.8 \text{ Ac.}$$

$$Q_2 = 0.9 \times 3.83 \times 0.8$$

$$Q_2 = 2.8 \text{ cfs}$$

$$Q_{100} = 0.9 \times 7.37 \times 0.8$$

$$Q_{100} = 5.3 \text{ cfs}$$

Street Flows Not Calculated For Sub Area No. 4
Since Additional Flow (Unknown Quantity) is
Flowing into this area (From Pawnee → Crawford)

EXAMPLE

D = 400
C = 0.7
S = 1%

$$\frac{1.8 (1.1 - 0.7) \sqrt{400}}{\sqrt[3]{1.0}} = \frac{1.8 (0.4) 20}{1} = 14.4$$

150/5320-5B

AC 150/5320-5B

For ex-
let consists
ving a co-
rvious soil
, the aver-
s equal to
+ 2.0) or

actor "C"

- 75 to .95
- 60 to .95
- 50 to .90
- 45 to .70
- 40 to .65
- 30 to .55
- 25 to .40
- 20 to .30
- 15 to .20
- 10 to .10

ing the
at any
n:
at point

ing such
which
red for
of the
The
which
be at
nt un-

harge
entra-
ts re-
flow".
water
point
The
water
point

pp 3

Chap 3

Par 6

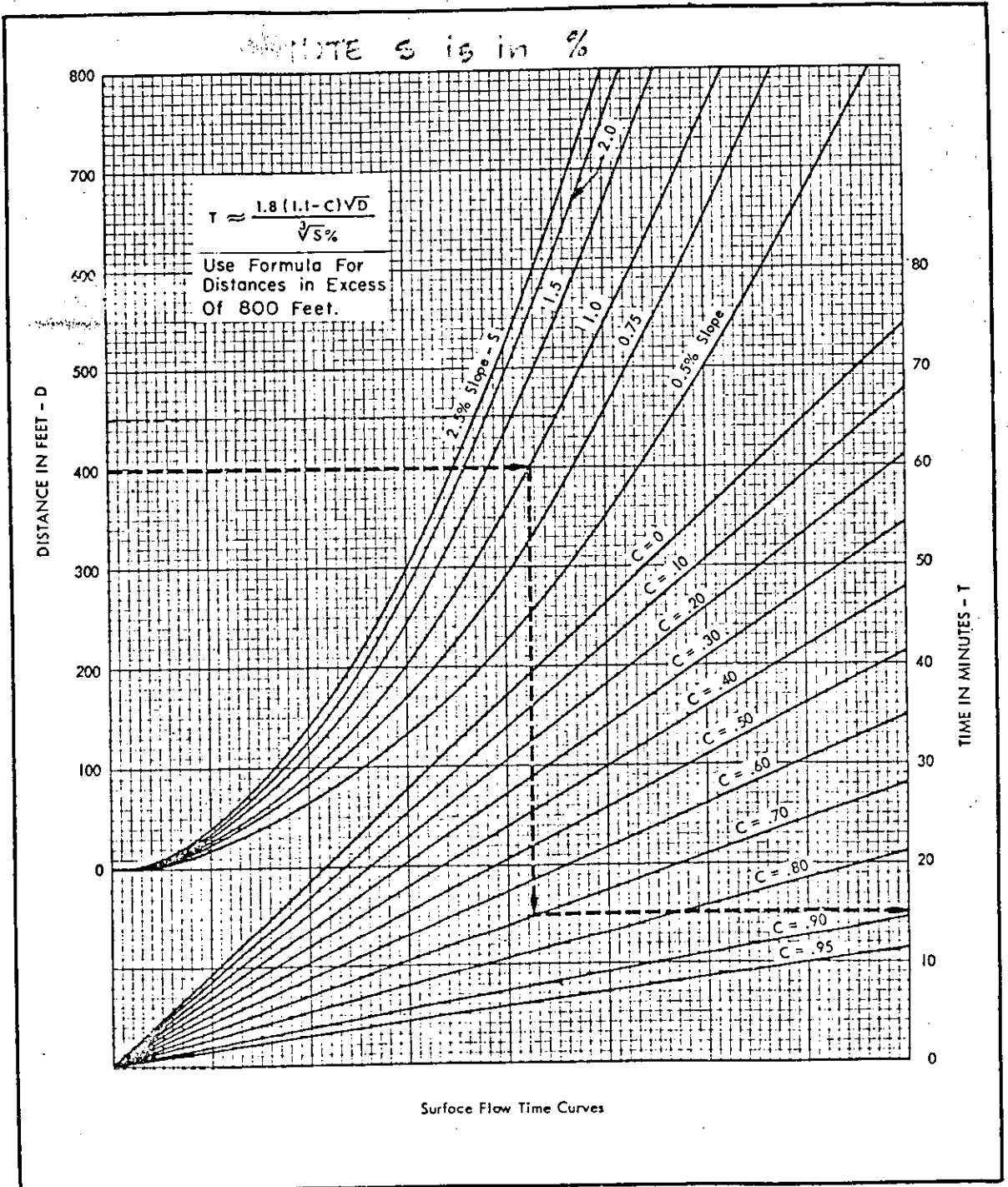


FIGURE 7. Surface flow time curves.

being investigated. In some instances the "inlet time" will be the time of concentration. Such is the case for an inlet at the upper end of a drainage line.

(1) Furthermore, a condition may exist where the "inlet time" to a structure along the line may exceed the time required for water falling on a more distant subarea to reach that

Comparison of Rainfall Intensities between Technical Paper No. 40, 1941
and NWS Hydro-35, 1977.

I N T E N S I T I E S (in/hr)

Frequency: Time	2 Year		5 Year		10 Year		25 Year		50 Year		100 Year	
	Tech-40	Hydro-35	Tech-40	Hydro-35	Tech-40	Hydro-35	Tech-40	Hydro-35	Tech-40	Hydro-35	Tech-40	Hydro-35
5	6.23	5.57	8.01	6.53	7.41	7.11	10.77	8.52	12.28	9.48	13.77	10.32
6	5.80	5.32	7.46	6.25	7.09	6.81	10.01	8.16	11.44	9.09	12.83	9.87
7	5.46	5.09	7.02	5.99	6.81	6.55	9.41	7.84	10.77	8.74	12.03	9.50
8	5.19	4.89	6.67	5.75	6.55	6.31	8.92	7.55	10.22	8.42	11.47	9.15
9	4.95	4.70	6.37	5.54	6.31	6.08	8.51	7.28	9.76	8.13	10.95	8.83
10	4.75	4.52	6.11	5.34	6.13	5.89	8.16	7.04	9.37	7.86	10.51	8.54
11	4.58	4.36	5.89	5.16	5.89	5.67	7.86	6.81	9.03	7.61	10.13	8.27
12	4.43	4.21	5.69	4.99	5.71	5.53	7.59	6.59	8.73	7.38	9.79	8.02
13	4.29	4.08	5.52	4.84	5.53	5.33	7.35	6.41	8.46	7.17	9.49	7.79
14	4.17	3.95	5.36	4.69	5.37	5.19	7.13	6.23	8.22	6.97	9.22	7.57
15	4.06	3.83	5.22	4.56	5.22	5.04	6.94	6.06	8.00	6.78	8.97	7.37
16	3.96	3.72	5.09	4.43	5.04	4.88	6.73	5.90	7.80	6.60	8.75	7.18
17	3.87	3.61	4.97	4.31	4.95	4.82	6.60	5.75	7.62	6.44	8.55	7.00
18	3.78	3.51	4.86	4.20	4.83	4.71	6.45	5.61	7.45	6.29	8.36	6.84
19	3.70	3.42	4.76	4.10	4.74	4.62	6.31	5.47	7.29	6.14	8.18	6.68
20	3.63	3.33	4.66	4.00	4.60	4.50	6.19	5.35	7.15	6.00	8.02	6.53
21	3.56	3.25	4.58	3.90	4.50	4.40	6.07	5.23	7.02	5.87	7.87	6.39
22	3.50	3.17	4.49	3.81	4.40	4.30	5.95	5.12	6.89	5.73	7.73	6.26
23	3.44	3.10	4.42	3.73	4.31	4.22	5.85	5.01	6.77	5.63	7.60	6.13
24	3.38	3.03	4.34	3.65	4.22	4.13	5.75	4.91	6.66	5.52	7.47	6.01
25	3.33	2.96	4.27	3.57	4.13	4.04	5.66	4.81	6.55	5.41	7.35	5.90
26	3.22	2.90	4.21	3.50	4.05	3.95	5.57	4.72	6.45	5.31	7.24	5.79
27	3.13	2.84	4.15	3.43	3.98	3.88	5.49	4.63	6.36	5.21	7.13	5.69
28	3.04	2.78	4.09	3.37	3.90	3.80	5.41	4.55	6.27	5.12	7.03	5.59
29	2.96	2.72	4.03	3.30	3.83	3.73	5.33	4.47	6.19	5.03	6.94	5.49
30	2.89	2.67	3.94	3.24	3.76	3.66	5.24	4.39	6.10	4.94	6.84	5.40
31	2.81	2.62	3.84	3.19	3.70	3.60	5.16	4.32	6.03	4.86	6.74	5.32
32	2.75	2.57	3.75	3.13	3.64	3.54	5.11	4.25	5.88	4.78	6.64	5.23
33	2.68	2.52	3.66	3.08	3.58	3.48	5.06	4.18	5.73	4.71	6.54	5.15
34	2.62	2.48	3.57	3.03	3.52	3.42	4.97	4.11	5.60	4.63	6.40	5.07
35	2.56	2.44	3.49	2.98	3.46	3.36	4.76	4.05	5.47	4.56	6.26	5.00
36	2.51	2.39	3.41	2.93	3.41	3.31	4.65	3.99	5.35	4.50	6.13	4.93
37	2.46	2.35	3.34	2.88	3.34	3.24	4.56	3.93	5.23	4.43	6.00	4.86
38	2.41	2.32	3.27	2.84	3.31	3.21	4.46	3.87	5.12	4.37	5.87	4.79
39	2.36	2.28	3.20	2.80	3.26	3.16	4.37	3.82	5.02	4.31	5.74	4.73
40	2.31	2.24	3.14	2.76	3.22	3.12	4.29	3.76	4.91	4.25	5.61	4.66
41	2.27	2.21	3.08	2.72	3.17	3.07	4.20	3.71	4.82	4.19	5.49	4.60
42	2.23	2.18	3.02	2.68	3.13	3.03	4.12	3.66	4.73	4.13	5.37	4.54
43	2.19	2.14	2.97	2.64	3.09	2.99	4.05	3.61	4.64	4.08	5.24	4.49
44	2.15	2.11	2.91	2.61	3.05	2.95	3.97	3.57	4.55	4.03	5.12	4.43
45	2.11	2.08	2.86	2.54	3.01	2.91	3.90	3.52	4.47	3.98	5.00	4.38
46	2.08	2.05	2.81	2.54	2.97	2.87	3.84	3.48	4.39	3.93	4.87	4.33
47	2.04	2.02	2.77	2.50	2.93	2.83	3.77	3.44	4.32	3.88	4.75	4.28
48	2.01	2.00	2.72	2.47	2.90	2.80	3.71	3.39	4.25	3.84	4.62	4.23
49	1.98	1.97	2.68	2.44	2.86	2.76	3.65	3.35	4.18	3.79	4.50	4.18
50	1.95	1.94	2.63	2.41	2.83	2.73	3.59	3.32	4.11	3.75	4.41	4.13
51	1.92	1.92	2.59	2.38	2.79	2.69	3.54	3.28	4.05	3.71	4.28	4.09
52	1.89	1.89	2.55	2.35	2.76	2.66	3.48	3.24	3.98	3.67	4.15	4.05
53	1.86	1.87	2.51	2.33	2.73	2.63	3.43	3.20	3.92	3.63	4.02	4.00
54	1.84	1.85	2.48	2.30	2.70	2.60	3.38	3.17	3.87	3.59	3.92	3.96
55	1.81	1.82	2.44	2.27	2.67	2.57	3.33	3.14	3.81	3.55	3.87	3.92
56	1.78	1.80	2.41	2.25	2.64	2.54	3.29	3.10	3.75	3.51	3.82	3.88
57	1.76	1.78	2.37	2.22	2.61	2.51	3.24	3.07	3.70	3.48	3.75	3.83
58	1.74	1.76	2.34	2.20	2.59	2.49	3.20	3.04	3.65	3.44	3.70	3.81
59	1.71	1.74	2.31	2.18	2.56	2.46	3.15	3.01	3.60	3.41	3.65	3.81
60	1.69	1.72	2.28	2.15	2.53	2.43	3.11	3.01	3.55	3.40	3.60	3.77
61	1.67	1.70	2.25	2.13	2.50	2.40	3.07	2.95	3.51	3.34	3.51	3.70

Westway

cross-slope = 1/4" / Ft

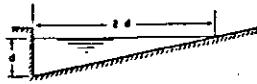
long. slope = 0.16 %

n = 0.014

$Z = \frac{1}{1/4" / Ft} = \frac{1}{0.020833} = 48$

$Z/n = 48 / 0.014 = 3,428.57$

Chart 1.

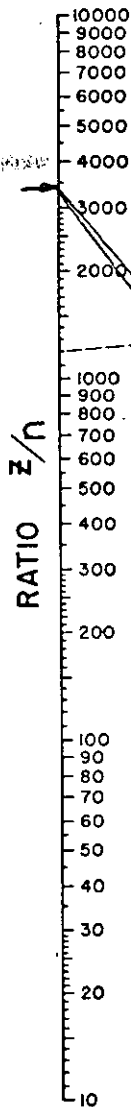


EQUATION: $Q = 0.56 \left(\frac{Z}{n}\right)^{3/2} d^{3/2}$
 n IS ROUGHNESS COEFFICIENT IN MANNING
 FORMULA APPROPRIATE TO MATERIAL IN
 BOTTOM OF CHANNEL
 Z IS RECIPROCAL OF CROSS SLOPE
 REFERENCE: H. R. B. PROCEEDINGS 1946,
 PAGE 150, EQUATION (14)

EXAMPLE (SEE INSTRUCTION 1)

GIVEN: $Z = 0.03$
 $n = 0.02$ } $Z/n = 1200$
 $Q = 200$ CFS

FIND: $d = 0.22$ BY FOLLOWING
 DASHED LINES



TURNING LINE

Elizabeth
 Crawford

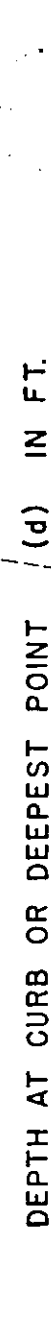
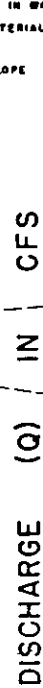
INSTRUCTIONS

1. CONNECT Z/n RATIO WITH SLOPE (S) AND CONNECT DISCHARGE (Q) WITH POINT WHERE LINE CROSSES TURNING LINE READ DEPTH AT CURB (d) Q CAN BE FOUND FROM d BY CONNECTING d WITH CROSSING OF TURNING LINE.

2. FOR SHALLOW V-SHAPED CHANNEL AS SHOWN USE NOMOGRAPH AS EXPLAINED IN INSTRUCTION 1 BUT WITH $Z = \frac{T}{d}$

3. TO DETERMINE DISCHARGE Q_2 IN PORTION OF CHANNEL HAVING WIDTH X: DETERMINE DEPTH d FOR TOTAL DISCHARGE IN ENTIRE SECTION AS EXPLAINED IN 1. THEN USE NOMOGRAPH TO DETERMINE Q_1 IN SECTION OF WIDTH d FOR DEPTH $d' = d \cdot \left(\frac{x}{Z}\right)$ THEN $Q_2 = Q - Q_1$.

4. TO DETERMINE DISCHARGE (Q_1) IN COMPOSITE SECTION: FOLLOW INSTRUCTION 3 TO OBTAIN DISCHARGE (Q_1) IN SECTION a AT ASSUMED DEPTH a BASED ON AN EXTENSION OF SLOPE RATIO Z_a TO INTERSECT WATER SURFACE; OBTAIN Q_2 FOR SLOPE RATIO Z_b AND DEPTH d' ; $d' = d \cdot \frac{x}{Z_b}$ THEN $Q_1 = Q_2 + Q_3$.



1. Industrial Park Development Company. Street R/W Vacation. Existing U.L. on N side of 37th. No water problem.
2. Robert Cox. Utility Easement Vacation. No water problem.
3. Westway Addition. Final Plat. Existing main in Seneca and Pawnee. Existing structure now served. PROBLEMS! 8" line shown is probably correct, however not all water lines are shown. Request 20' Utility esmt. for 8" main going west x SW from northerly end of 8" main shown. See notes on sketch plat. Consultant to determine location of 8" mains from Water Dept. City.
4. Simon Industrial Park Addition. Preliminary Plat. Park City. No city water available. No water problem.
5. Huntington Place Addition. Final Plat. Item D, water to be extended. No water problems.
6. Vanderhoff Gardens Second Addition. Item B, water to be extended, no water problem. How will lot 3 be served by water?
7. Gray's First Addition. Final Plat. Item B, main to be extended. City.
8. Burlington Northern Industrial Center Second Addition. Existing main in Ohio, no water problem.
9. Wolke Addition. Preliminary plat. Item C, no city water available. No water problem. City.
10. The Dugan Centre. Final plat. Item B, mains to be extended. No water problem.
11. C. Wayne Kerr. Utility Esmt. Granting. No water problem.

Pre-Sub
5-22-86

0

12. The Board of Park Commissioners. St. R/W Dedication.
No water problem.
13. Ted & Ken Prichard. Grant Utility Esmt. Probably
no problem.
14. Ted & Ken Prichard. St. R/W Dedication. No water problem
15. Other Matters.



METROPOLITAN AREA PLANNING
COMMISSION

CITY HALL — TENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4561



May 23, 1986

Professional Engineering Consultants, P.A.
1440 East English
Wichita, KS 67211

Re: S/D 86-16 - Final Plat of Westway Addition.

Gentlemen:

At the regular meeting of the Subdivision Committee of the Metropolitan Area Planning Commission on Thursday, May 22, 1986, the above-captioned plat was considered. The action of the Committee was to recommend that this plat be approved subject to:

- A. On the final plat tracing, the existing half-street rights-of-way for Elizabeth Street to the west and Crawford Street to the south shall be indicated.
- B. On the final plat tracing, the sanitary sewer easement on Lot 3 shall be relabeled as a utility easement.
- C. Perimeter closure computations shall be submitted with the final plat tracing. Section 5-101(C).
- D. Recording of the plat within 30 days after approval by the Board of City Commissioners.

The enclosed "marked" copy of the final plat is for your information and files.

This matter will be forwarded to the Planning Commission for its consideration on Thursday, May 29, 1986. If you have any questions concerning this matter, please call.

Sincerely,

FLN

Forrest L. Nagley
Senior Planner

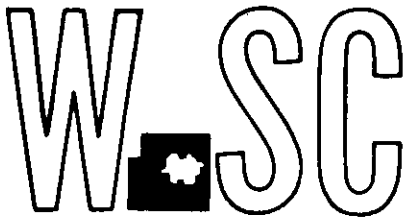
FLN:mlh

Enclosure

cc: Phil Ruffin, Attn: Gary Snyder, P.O. Box 17087, Wichita, KS 67217
Mike Lindebak, City Engineer

C
O
P
Y

WICHITA - SEDGWICK COUNTY



METROPOLITAN AREA PLANNING DEPARTMENT

CITY HALL - TENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4561

*Send to
Mr. Lindebak*

*File
Plat Folder: Westway Addition*

July 2, 1986

Gary Wiley, Manager, Land Development
Professional Engineering Consultants
1440 East English
Wichita, Kansas 67211

C
O
P
Y


RE: Z-2687 - Request for platting time extension

Dear Mr. Wiley:


We have reviewed your request for platting time extension associated with the additional "LC" zoning on the Westway Shopping Center site. We support your request for a six-month extension, to December 11, 1986, but will not recommend any additional extensions believing that eighteen months is more than adequate time to complete the platting of this developed property.

Every effort should be made to record the plat of Westway Addition prior to the new December 11, 1986, deadline.

Sincerely,


Michael E. Lindebak
Director of Planning (Interim)

Approved by:


Chris Cherches
City Manager

MEL/LO:blw

APP

DIRECTORS

- C. O. KNOP, P.E.
- R. B. PEUGH, P.E.
- C. J. FREUND, P.E.
- W. H. KELTNER, P.E.
- R. D. PLETCHER, P.E.
- F. D. MIDDLETON, JR., P.E.
- D. E. MALTBIE, P.E.
- M. D. SCHOMAKER, P.E.
- G. D. SCHOCK, P.E.
- J. H. BAILEY, P.E., PH.D.

Office of the City Manager

CFC _____ SH _____

RGF _____ JA _____

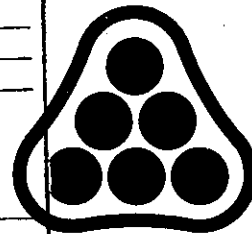
RT _____ _____

JUN 24 1986

Copies To _____

Send To _____

File _____



**PROFESSIONAL
ENGINEERING
CONSULTANTS**
PROFESSIONAL ASSOCIATION

June 23, 1986

Mr. Chris Cherches
City Manager
City Hall - 13th Floor
455 North Main
Wichita, Kansas 67202

Reference: Request for extension of platting time in association with
DP-21, Westway C.U.P. and Z-2687.
P.E.C. File No. 36-84510-1014

Dear Mr. Cherches:

On June 11th, 1985 the Board of City Commissioners approved the above mentioned zone change and C.U.P. amendment subject to replatting within one year.

On May 29, 1986, the Planning Commission approved the final plat of Westway Addition.

The plat tracing has been signed by the majority owner, Mr. Phil Ruffin and sent to the U.S. Postal Service for signature. At this time the plat tracing has not been returned.

We would appreciate your favorable consideration for a six-month platting extension.

Very truly yours,

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

Gary Wiley
Manager
Land Development

GW:sg

1440 EAST ENGLISH
WICHITA, KANSAS 67211
(316) 262-2691

KSA 12-420

PROFESSIONAL
ENGINEERING CONSULTANTS, PA

1440 E. English
WICHITA, KANSAS 67211

(316) 262-2691

LETTER OF TRANSMITTAL

TO

Mike Lindebak, P.E.
City Engineer

DATE	10/27/86	JOB NO.
ATTENTION		
RE:	Westway	

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

- Shop drawings Prints Plans Samples Specifications
 Copy of letter Change order _____

COPIES	DATE	NO.	DESCRIPTION
1			Certificate of Corrections to Dimension
1			Affidavit (re correction)

THESE ARE TRANSMITTED as checked below:

- For approval Approved as submitted Resubmit _____ copies for approval
 For your use Approved as noted Submit _____ copies for distribution
 As requested Returned for corrections Return _____ corrected prints
 For review and comment _____
 FOR BIDS DUE _____ 19____ PRINTS RETURNED AFTER LOAN TO US

REMARKS

The recorded plat of Westway contains a dimension error on the sanitary sewer easement at the northeast corner of Lot 1. The plat dimension shown as 315' is from the Sec. line - not the property line. This dimension needs to be corrected to 255' (deducting the 60' street R/W).

COPY TO _____

SIGNED: Rich Lin

KSA 12-420

PROFESSIONAL ENGINEERING CONSULTANTS, PA

1440 E. English
WICHITA, KANSAS 67211

(316) 262-2691

LETTER OF TRANSMITTAL

TO

Mike Lindebak, P.E.
City Engineer

DATE	10/27/86	JOB NO.	
ATTENTION			
RE:	Westway		

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

- Shop drawings Prints Plans Samples Specifications
 Copy of letter Change order _____

COPIES	DATE	NO.	DESCRIPTION
1			Certificate of Corrections to Dimension
1			Affidavit (re correction)

THESE ARE TRANSMITTED as checked below:

- For approval Approved as submitted Resubmit _____ copies for approval
 For your use Approved as noted Submit _____ copies for distribution
 As requested Returned for corrections Return _____ corrected prints
 For review and comment _____
 FOR BIDS DUE _____ 19 _____ PRINTS RETURNED AFTER LOAN TO US

REMARKS

The recorded plat of Westway contains a dimension error on the sanitary sewer easement at the northeast corner of lot 1. The plat dimension shown as 315' is from the Sec. line - not the property line. This dimension needs to be corrected to 255' (deducting the 60' street R/W).

COPY TO _____

SIGNED: _____

Rich Linn

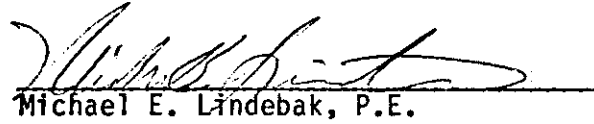
If enclosures are not as noted, kindly notify us at once.

AFFIDAVIT

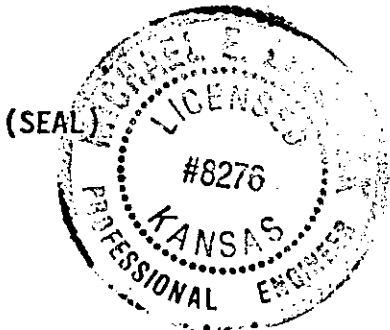
STATE OF KANSAS)
COUNTY OF SEDGWICK) SS

Michael E. Lindebak, P.E., City Engineer for The City of Wichita, Kansas, being first duly sworn, on oath states:

I have examined the final plat of Westway, an addition to Wichita, Sedgwick County, Kansas, and have found that a certain dimension error exists on the plat drawing showing the 20' sanitary sewer easement extending in a southerly direction located 158.5' west of the N.E. corner of Lot 1, Block 1, in said plat. The correction shall show a distance of 158.5' from the center-line of the 20' easement to the N.E. corner of said Lot 1, and the distance shown as S0°00'00"E, 315' shall be corrected to S0°00'00"E, 255'.



Michael E. Lindebak, P.E.

Dated this 6th day of October, ¹⁹⁸⁷~~1986~~.



STATE OF KANSAS)
COUNTY OF SEDGWICK) SS

Be it remembered that on this 6th day of Oct, ¹⁹⁸⁷~~1986~~, before me, a Notary Public in and for said State and County, came Michael E. Lindebak, P.E., City Engineer for Wichita, Kansas, to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

(SEAL) 

My appointment expires on Dec 9, 1990.



CERTIFICATE OF CORRECTIONS TO DIMENSION

WESTWAY

Wichita, Kansas

STATE OF KANSAS)
COUNTY OF SEDGWICK) SS

We, Professional Engineering Consultants, P.A., engineers in aforesaid county and state, do hereby certify that a certain dimension error exists on the plat drawing showing the 20' sanitary sewer easement extending in a southerly direction located 158.5' west of the N.E. corner of Lot 1, Block 1, Westway.

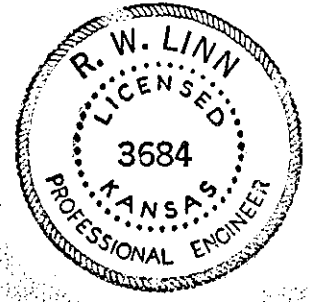
The accompanying drawing is a true and correct exhibit of the correction as noted.

Date 10/27/1986

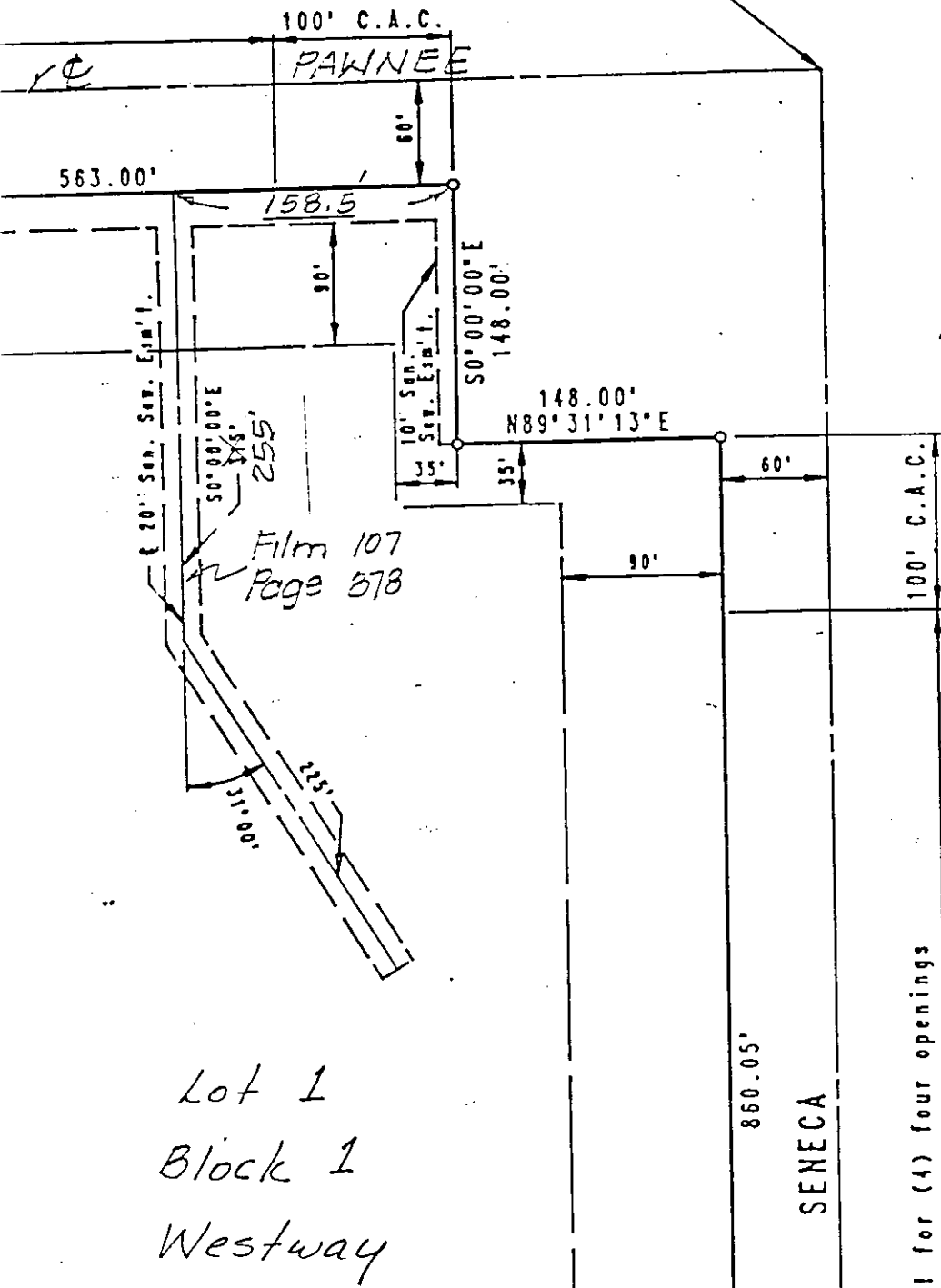
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

By R.W. Linn
R.W. Linn, P.E. License No. 3684

N.E. Cor. N.E. 1/4
Sec. 6, T28S, R1E
of the 6th P.M.



1" = 100'



Lot 1
Block 1
Westway

SENECA

1 for (4) four openings

AFFIDAVIT

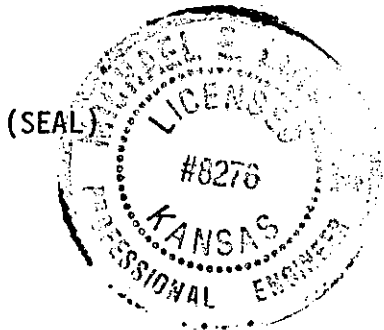
STATE OF KANSAS)
COUNTY OF SEDGWICK) SS

Michael E. Lindebak, P.E., City Engineer for The City of Wichita, Kansas, being first duly sworn, on oath states:

I have examined the final plat of Westway, an addition to Wichita, Sedgwick County, Kansas, and have found that a certain dimension error exists on the plat drawing showing the 20' sanitary sewer easement extending in a southerly direction located 158.5' west of the N.E. corner of Lot 1, Block 1, in said plat. The correction shall show a distance of 158.5' from the center-line of the 20' easement to the N.E. corner of said Lot 1, and the distance shown as S0°00'00"E, 315' shall be corrected to S0°00'00"E, 255'.

Michael E. Lindebak
Michael E. Lindebak, P.E.

Dated this 6th day of October, ~~1986~~ ¹⁹⁸⁷.



STATE OF KANSAS }
SEDGWICK COUNTY } SS
FILED FOR RECORD AT
1:20 PM

OCT 12 1987

NO. 9 11992
PAT KETTLER
REGISTER OF DEEDS

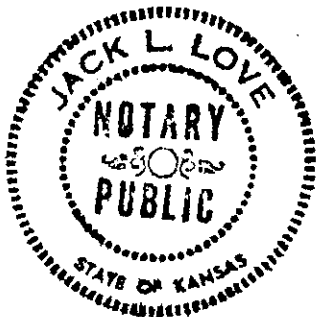
STATE OF KANSAS)
COUNTY OF SEDGWICK) SS

Be it remembered that on this 6th day of Oct, ~~1986~~ ¹⁹⁸⁷, before me, a Notary Public in and for said State and County, came Michael E. Lindebak, P.E., City Engineer for Wichita, Kansas, to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

(SEAL)

Jack L. Love

My appointment expires on Dec 9, 1990.



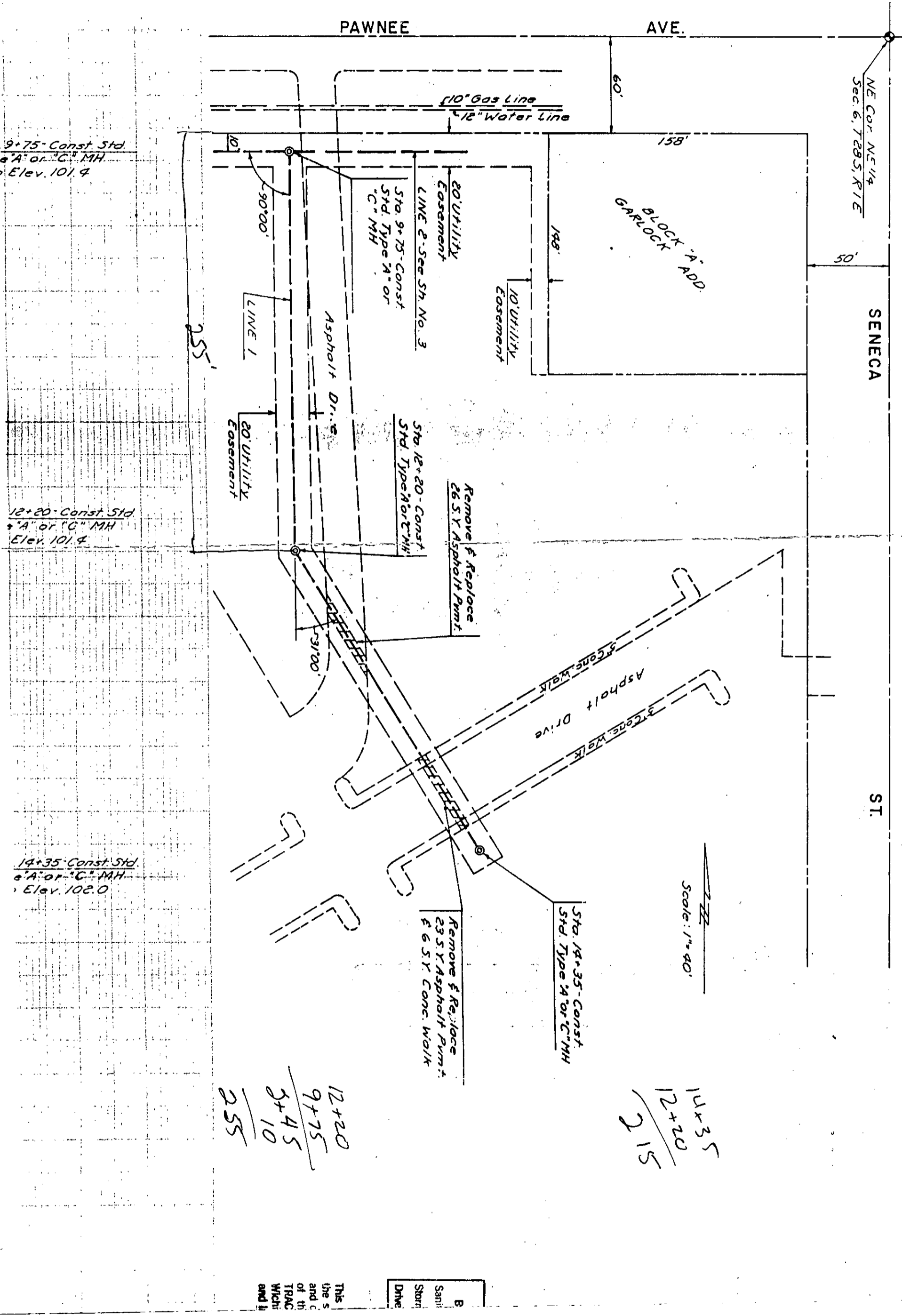
Copy

PAWNEE AVE.

NE Cor. N5114
Sec. 6, T28S, R1E

SENECA ST.

ST.



B
Sani
Stor
Dne

This
the s
and c
of th
TRAC
Wich
and l