

Date 10-3-80 Page 2 of 2

Project Timbrook 2nd Addition

Item Hydraulics

NODE	Pipe Size	Hyd. Slope	Loss	Hyd. GL Elev	Max. Elev.
Timbers Inlet	15	0.62	0.16	1408.25	1411.20
100	15	1.27	0.45	1408.09	1410.70
200	18	1.02	3.77	1407.64	1410.70
Existing Manhole	-	-	-	1403.87	1403.87

Formulas Used in Calculations

$$T_c = \frac{1.8 (1.1 - CDR) (LSB)^{1/2}}{SLSB^{1/3}} \quad - \text{FAA Formulae}$$

INT from ESSA Weather Bureau Technical Paper 40

$Q = CIA$ Rational Formula

Friction loss = (Hyd. Slope x L)

$$\text{Hyd. Slope} = \left(\frac{Qn}{1.49AR^{2/3}} \right)^2$$

$$\text{Travel Time} = \frac{L}{vel.}$$

MEMO



TO: Paul Graves ✓
Chief Engineer
City Hall - 7th Floor
455 N. Main
Wichita, Kansas 67202

PROJECT NO. 30-80348-232

PROJECT: Timbrook 2nd Addition

COPIES TO:

ATTN: Chris Breitenstein, P.E.

DATE: October 3, 1980

Louise Olivarez

FROM: Kristen Hart, E.I.T.

Mike Lindebak

REFERENCE: Drainage Concept and Plan

Dick Linn

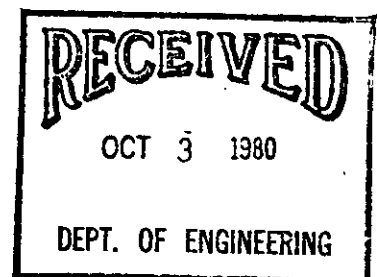
File

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

Transmitted herewith is Timbrook 2nd Addition Drainage Concept/Plan and supportive calculations.

The preliminary plat for this site was approved before a drainage concept or plan was required. Therefore we are submitting a drainage concept and plan prior to filing the final plat. We anticipate filing October 17, 1980 and would appreciate your comments prior to that date.

If you require any further information or clarification, please contact me.



THE CITY OF WICHITA

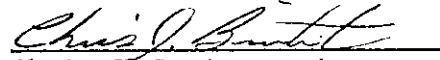
OFFICE OF DEPARTMENT OF ENGINEERING DATE: October 6, 1980

TO Jack Galbraith, Chief Planner

FROM Chris J. Breitenstein, Acting Drainage Design Engineer

SUBJECT Timbrook 2nd Addition
Drainage Concept & Plan

The above referenced drainage concept and plan is approved.


Chris J. Breitenstein
Acting Drainage Design Engr.

CJB:md

cc: Louise Olivarez
Kristen Hart



MEMO

TO: Paul Graves
Chief Engineer
City Hall - 7th Floor
455 N. Main
Wichita, Kansas 67202

PROJECT NO. 30-80348-232

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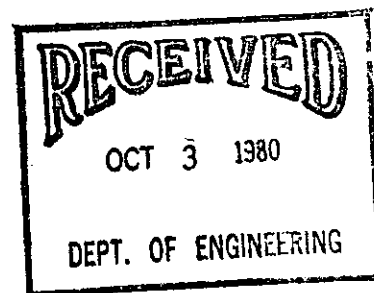
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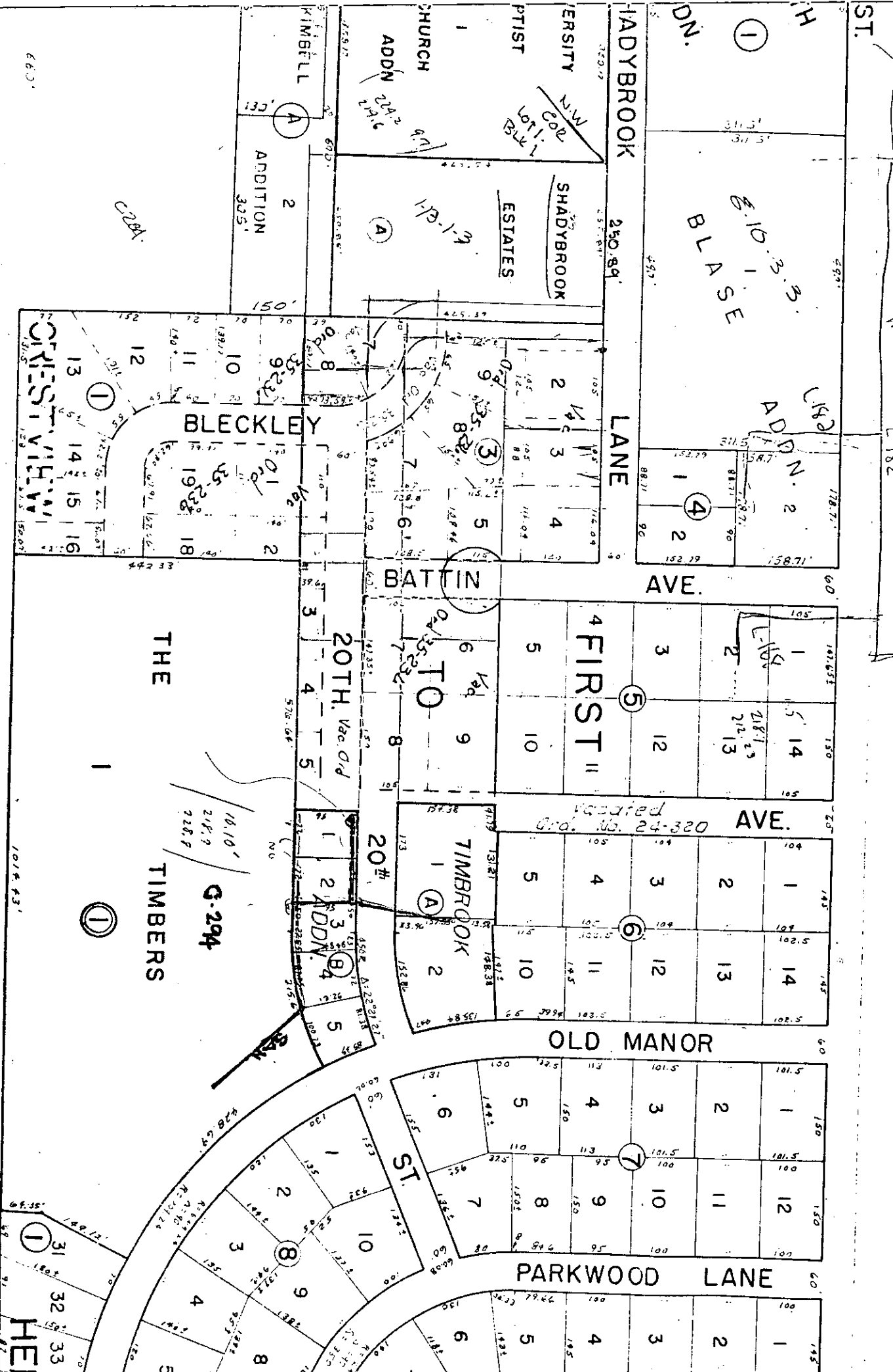
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N.W. 1/4 SEC. 12, TWP. 27 S., R. 1-E

C-294



6.00'

C-294

THE

TIMBERS

G-294

HELEN ST.

SHADYBROOK ESTATES

LANE

Graded Gro. No. 24-320

OLD MANOR

PARKWOOD LANE

L-182

L-180

①

BLAISE

④

AVE.

FIRST

⑤

AVE.

⑥

BATTLE

TO

20th

⑧

ST.

ADDITION

①

BLECKLEY

①

CRESTVIEW

①

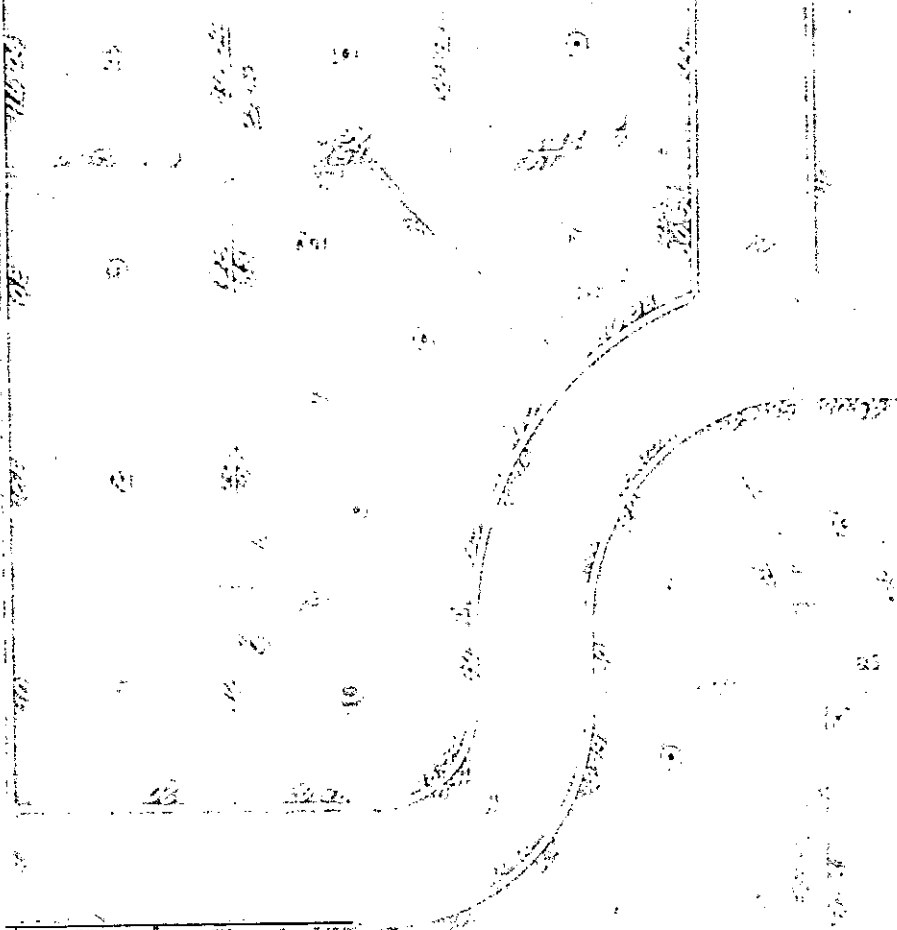
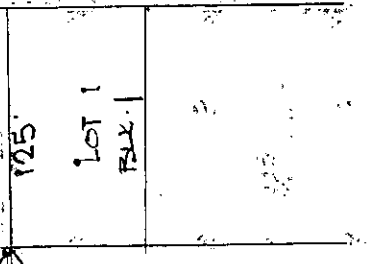
HELEN

ST.

LANE

SHELDONBROOK

589.17
409.17



D. OLIVER

This is a plan of a lot of land in the town of Sheldon, New York, containing one acre and one hundred and thirty square rods, more or less, and is divided into two lots, one of one acre and one hundred and thirty square rods, and the other of one hundred and thirty square rods, more or less. The lot of one acre and one hundred and thirty square rods is bounded by the town of Sheldon on the north and east, by the town of Westerlo on the south, and by the town of Westerlo on the west. The lot of one hundred and thirty square rods is bounded by the town of Sheldon on the north and east, by the town of Westerlo on the south, and by the town of Westerlo on the west.