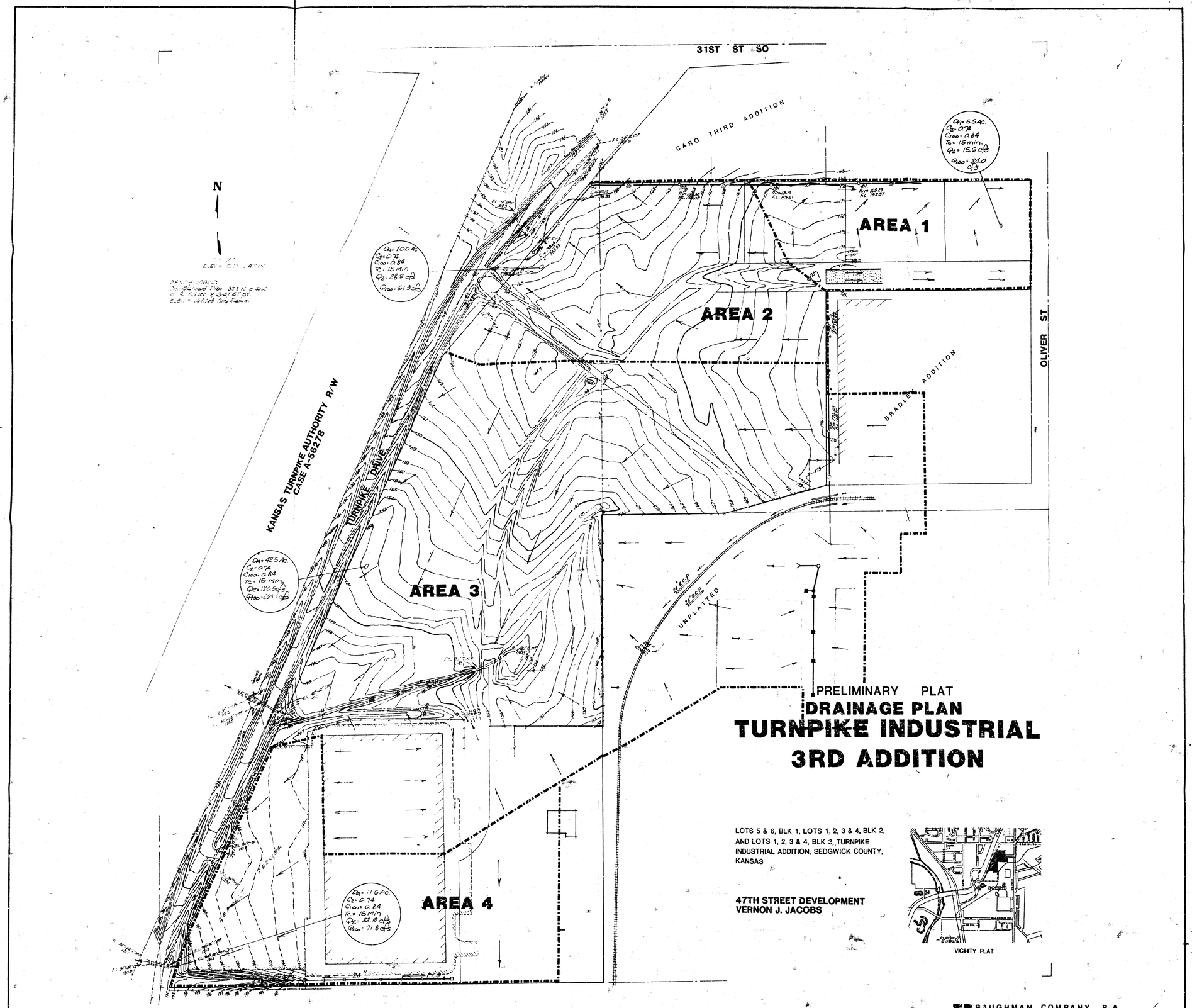
Turnpike Industrial 3rd Add.



PRELIMINARY PLAT

DRAINAGE PLAN
TURNPIKE INDUSTRIAL
3RD ADDITION

LOTS 5 & 6, BLK 1, LOTS 1, 2, 3 & 4, BLK 2, AND LOTS 1, 2, 3 & 4, BLK 3, TURNPIKE INDUSTRIAL ADDITION, SEDGWICK COUNTY, KANSAS

47TH STREET DEVELOPMENT
VERNON J. JACOBS

VICINITY PLAT

BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

Orig. 10/25/88

TURNPIKE INDUSTRIAL 3RD ADDITION
DRAINAGE 1
By CB 10/24/88 Page of
BAUGHMAN COMPANY, P.A.

From SCS "Soil Survey of Sedgwick County, KS"
Soil Types: About 1/2 1A and 1e, Rd. Eotan Silt
Fall in Hydrological Group "D"
From City of Wichita Drainage Manual:
Heavy Industrial Area, Type "D" Soil.

$C_2 = 0.74$ $C_{100} = 0.84$

Area #1

DA = 5.5 Ac
Tc = 15 min (Min. Value, City of Wichita)
$i_2 = 3.83$ in/hr $i_{100} = 7.37$ in/hr
$Q_2 = (5.5 Ac)(3.83 in/hr)(0.74) = 15.6$ cfs
$Q_{100} = (5.5 Ac)(7.37 "/hr)(0.84) = 34.0$ cfs

Area #2

DA = 10.0 Ac.
Tc = 15 min (Improved)
$Q_2 = 10.0 Ac (3.83 in/hr)(0.74) = 28.3$ cfs
$Q_{100} = 10.0 Ac (7.37 "/hr)(0.84) = 61.9$ cfs

Area #3

DA = 42.5 Ac
Tc = 15 min.
$Q_2 = 42.5 Ac (3.83 in/hr)(0.74) = 120.5$ cfs
$Q_{100} = 42.5 Ac (7.37 in/hr)(0.84) = 263.1$ cfs

TURNPIKE INDUSTRIAL 3RD ADDITION
DRAINAGE 2
By CB 10/24/88 Page of
BAUGHMAN COMPANY, P.A.

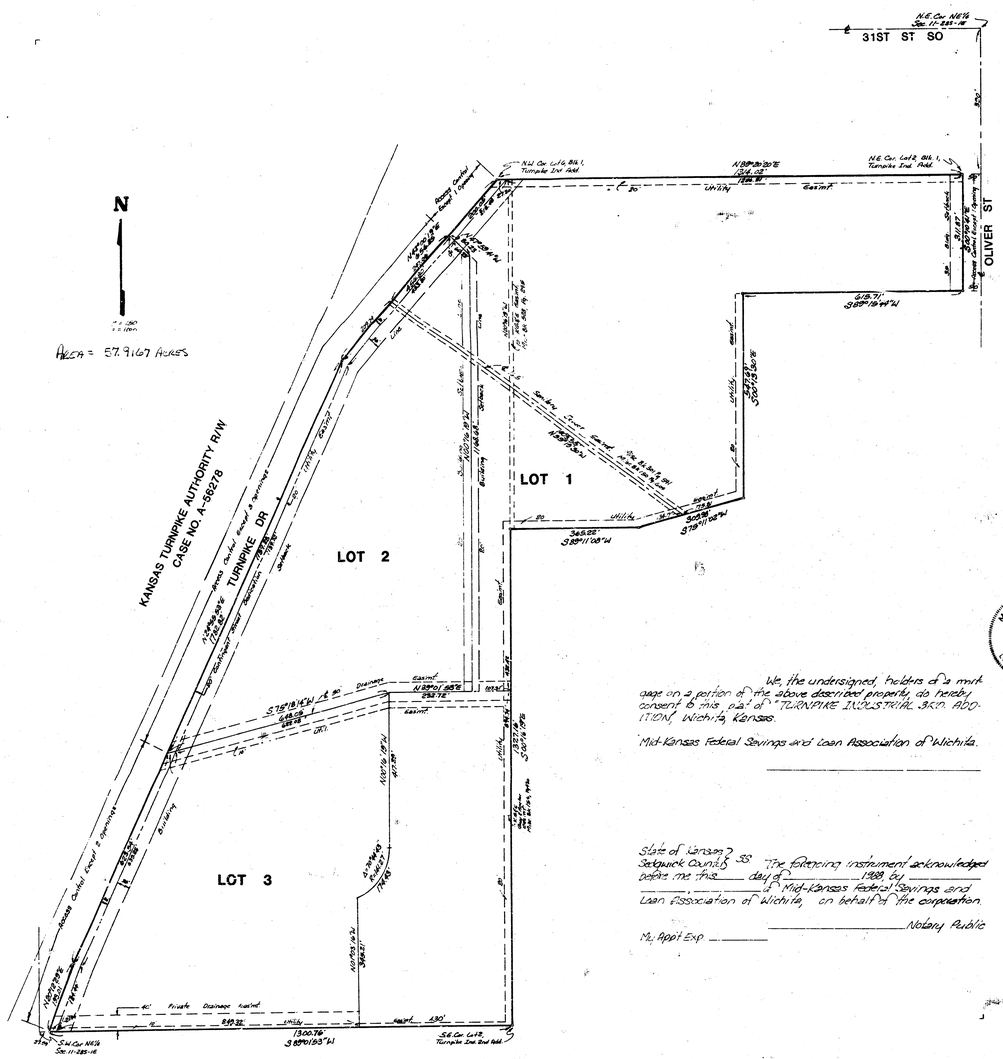
Area #4

DA = 11.6 Ac.
Tc = 15 min.
$Q_2 = 11.6 Ac (3.83 in/hr)(0.74) = 32.9$ cfs
$Q_{100} = 11.6 Ac (7.37 "/hr)(0.84) = 71.8$ cfs

Turnpike Industrial 3rd

TURNPIKE INDUSTRIAL
3RD ADDITION

WICHITA, KANSAS


N
AREA = 57.9167 ACRES
31ST ST SO
OLIVER ST
KANSAS TURNPIKE AUTHORITY R/W
CASE NO. A-56278
TURNPIKE DR
LOT 1
LOT 2
LOT 3
N.E. Cor. NE¼ Sec. 11-28S-1E
N.W. Cor. Lot 6, Blk 1, Turnpike 2nd Add.
N.E. Cor. Lot 2, Blk 1, Turnpike Ind. Add.
S.E. Cor. Lot 2, Blk 1, Turnpike 2nd Add.
S.W. Cor. NE¼ Sec. 11-28S-1E
Utility Easement
Drainage Easement
Access Control Easement & Agreement
Building Setback
Private Drainage Easement
Existing Canal
Existing Creek
Existing Ditch
Existing Pond
Existing Levee
Existing Fence
Existing Gas Line
Existing Water Line
Existing Sanitary Sewer
Existing Storm Sewer
Existing Overhead Power Line
Existing Underground Telephone Line
Existing Underground Power Line
Existing Underground Cable TV Line
Existing Underground Gas Line
Existing Underground Water Line
Existing Underground Sanitary Sewer
Existing Underground Storm Sewer