



1" = 100'

DRAINAGE PLAN PAWNEE AND WEST INDUSTRIAL PARK SECOND ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

Runoff calculated by the Rational Formula: $Q=CIA$
"C" and "I" Values from City of Wichita Drainage Criteria
C values as follows: C_s C_{100}
Paved areas (96% imperv.) 0.87 0.89
Heavy industrial 0.76 0.84
Overland flow travel time (per Attachment E) assumes
0.3% slope on pavement. $V=0.77$ fps
Time of concentration=15 minutes (minimum) except where noted
Combined Q at conjunction of flows is adjusted for different T_c
by the formula: $Total\ Q = Q_{greater} + Q_{smaller} \left(\frac{I_{smaller}}{I_{greater}} \right)$
Major drainage outlet to the north of Lydia Street provides
outfall for undetained runoff as approved with Pawnee and
West Industrial Park Addition.



