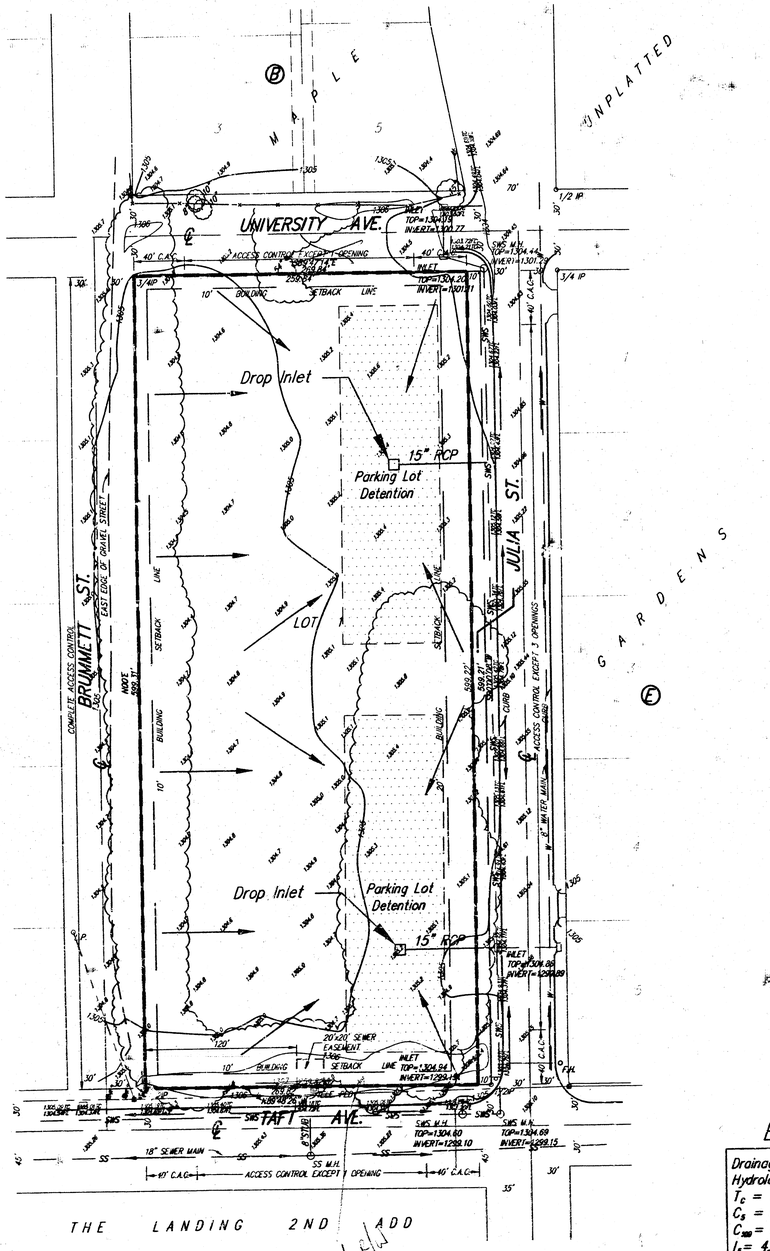
DRAINAGE PLAN
ERNEST JORDAN ADDITION
WICHITA, SEDGWICK COUNTY, KANSAS



BENCH MARK: CITY OF WICHITA STD DISC
30.61' S. & 52.3' W. OF CENTERLINE INTERSECTION
DUGAN ROAD & TAFT AVE.
ELEV.=1306.40 NGVD

LEGAL DESCRIPTION:

Lots 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10, Block D, West Maple Gardens, Sedgwick County, Kansas.

OWNER:

Ernest A. Jordan, Sr., Trustee
of the Doris I. Jordan Trust and of the Ernest A. Jordan, Sr. Trust
32 Friendship Lane
Newton, Kansas 67114

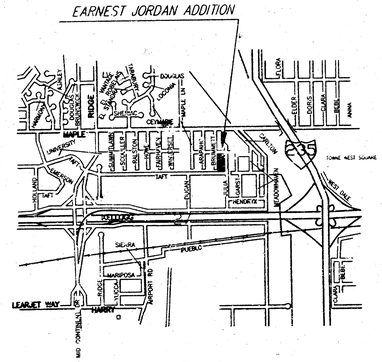
Ph. (316) 283-4079

GROSS AREA:
161,696.86 Sq. Ft.±
3.71 Acrss±

LEGEND

G = GAS MAIN
W = WATER MAIN
SS = SANITARY SEWER
SMS = STORM WATER SEWER
UGE = UNDER GROUND ELECTRIC
UGT = UNDER GROUND TELEPHONE

- TELE. PED . . . TELEPHONE PEDESTAL
- E.B. . . . . ELECTRIC BOX
- G.M. . . . . GAS METER
- W.M. . . . . WATER METER
- W.V. . . . . WATER VALVE
- F.H. . . . . FIRE HYDRANT
- M.W. . . . . MONITOR WELL
- C.O. . . . . CLEAN OUT
- L.P. . . . . LIGHT POLE
- . . . . . POWER POLE
- . . . . . HIGH LINE POLE
- . . . . . GUY ANCHOR
- . . . . . SIGN
- G.P. . . . . GUARD POST
- SMS M.H. . . . STORM WATER SEWER MANHOLE
- SS M.H. . . . SANITARY SEWER MANHOLE



VICINITY MAP
N.T.S.

EXISTING

Drainage Area = 3.58 Ac.
Hydrologic Soil Type "B"
T_c = 15 min.
C_5 = 0.18
C_{100} = 0.37
I_5 = 4.56 in.
I_{100} = 7.37 in.
Q_5 = 2.9 cfs
Q_{100} = 9.8 cfs

PROPOSED

Drainage Area = 3.58 Ac.
Hydrologic Soil Type "B"
T_c = 15 min.
C_5 = 0.69
C_{100} = 0.80
I_5 = 4.56 in.
I_{100} = 7.37 in.
Q_5 = 11.3 cfs
Q_{100} = 21.1 cfs

DETENTION REQUIRED

Storage Volume = (Qin-Qall)(3)(Tc)(0.5)(60 sec/min)(K)
Qin = 21.1 cfs
Qall = 9.8 cfs
Tc = 15 min.
K = 1.5
SV = (21.1-9.8)(3)(15)(0.5)(60)(1.5)
SV = 22,883 cu-ft
SV = 0.53 ac-ft

SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
http://www.fpiet.com/~srb
316-264-8008
FAX 264-4621
E-mail: srb@feist.com
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

Oct. 2, 2001

DWG FILE: Drainage Plan
PROJECT NO. 01H02023P