

# DRAINAGE PLAN ERNEST JORDAN ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

**LEGAL DESCRIPTION:**

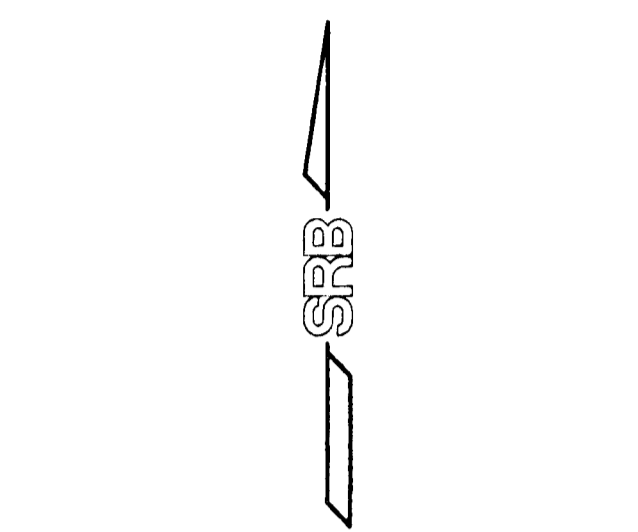
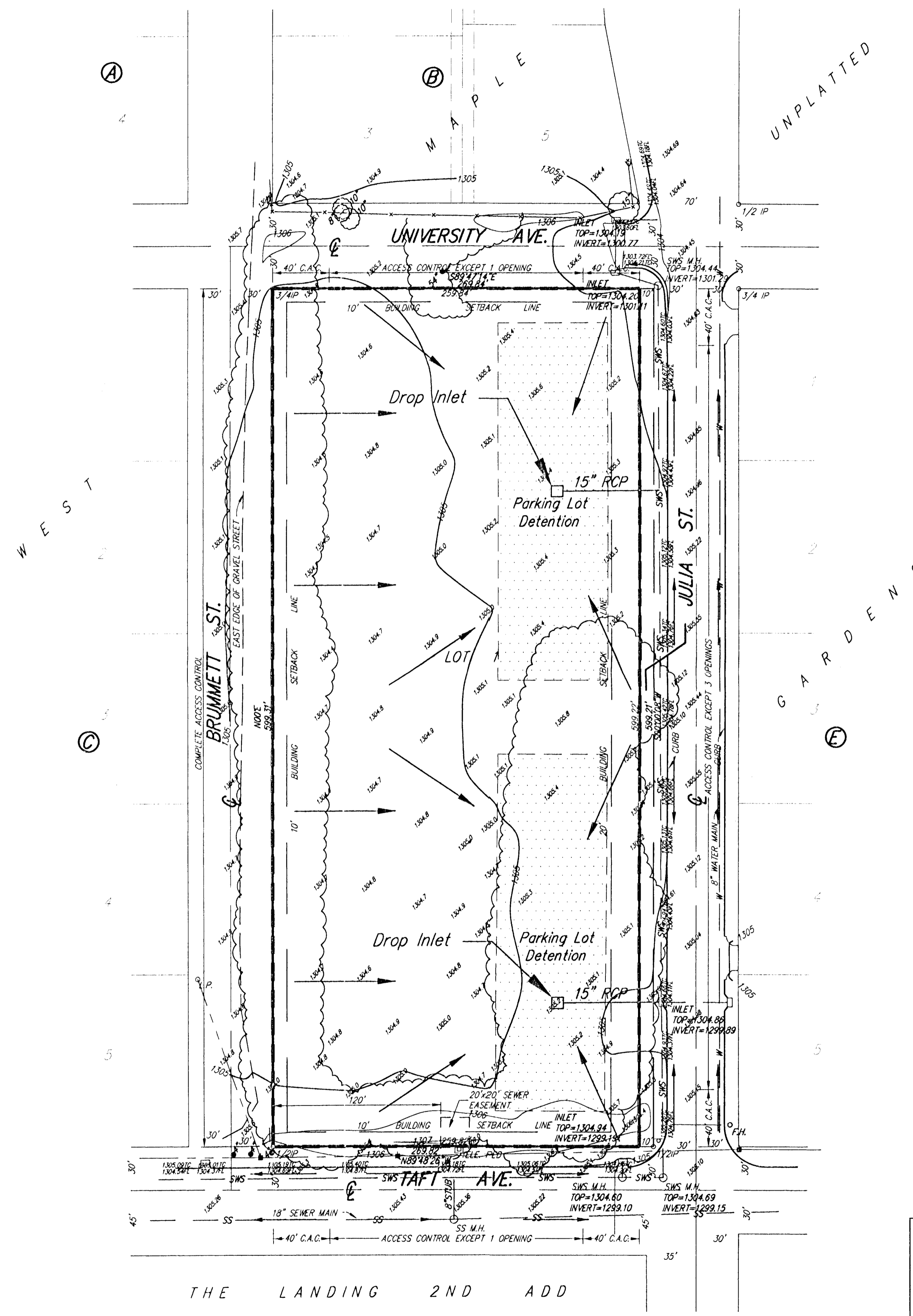
Lots 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10, Block D, West Maple Gardens,  
Sedgwick County, Kansas.

**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

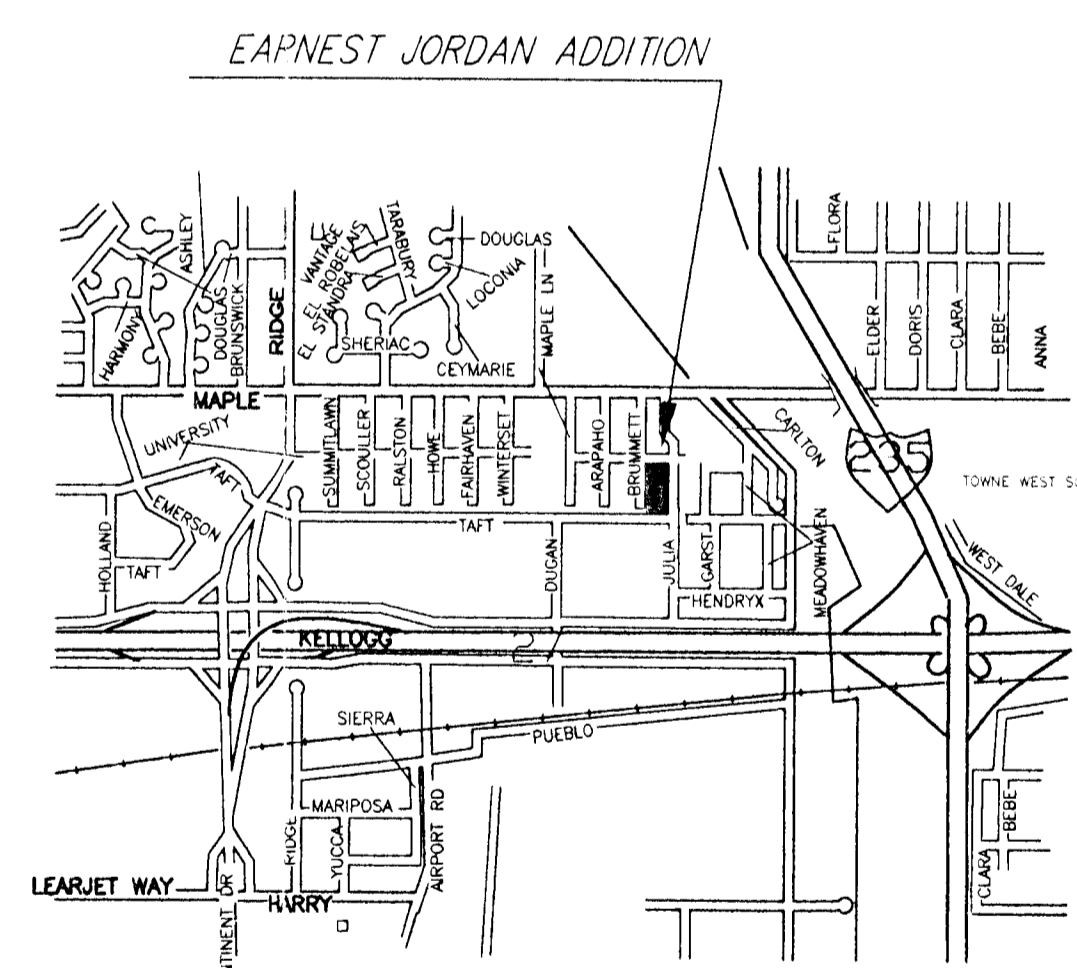
Ph. (316) 283-4079

**GROSS AREA:**  
161,696.86 Sq. Ft. ±  
3.71 Acres ±



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

- LEGEND**
- G = GAS MAIN
  - W = WATER MAIN
  - SS = SANITARY SEWER
  - SWS = STORM WATER SEWER
  - USE = UNDER GROUND ELECTRIC
  - UT = 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
  - ◻ . . . . . DUTY ANCHOR
  - ◻ . . . . . SIGN
  - ◻ G.P. . . . . GUARD POST
  - ◻ SWS 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.  
 $C_s = 0.18$   
 $C_{100} = 0.37$   
 $I_s = 4.56$  in.  
 $I_{100} = 7.37$  in.  
 $Q_s = 2.9$  cfs  
 $Q_{100} = 9.8$  cfs

**PROPOSED**

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

**DETENTION REQUIRED**

Storage Volume =  $(Q_{in} - Q_{out})(3)(T_c)(0.5)(60 \text{ sec/min})(K)$   
 $Q_{in} = 21.1$  cfs  
 $Q_{out} = 9.8$  cfs  
 $T_c = 15$  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

THE LANDING 2ND ADD