

**RUNOFF CALCULATIONS**

By Rational Formula:  $Q = CIA$   
 Impervious Area = 0.32 acre  
 Pervious Area = 0.23 acre  
 D.A. to street = 0.55 acre  
 $C_{im}$  impervious = 0.95  
 $C_{im}$  pervious = 0.55  
 $C_m$  weighted = 0.82  
 Assume time of concentration = 10 min.  
 $I_p = 5.34$  in./hr.  $I_m = 8.54$  in./hr.  
 $C_{um} = 2.4$  cfs  $C_{om} = 3.9$  cfs

**NOTE**

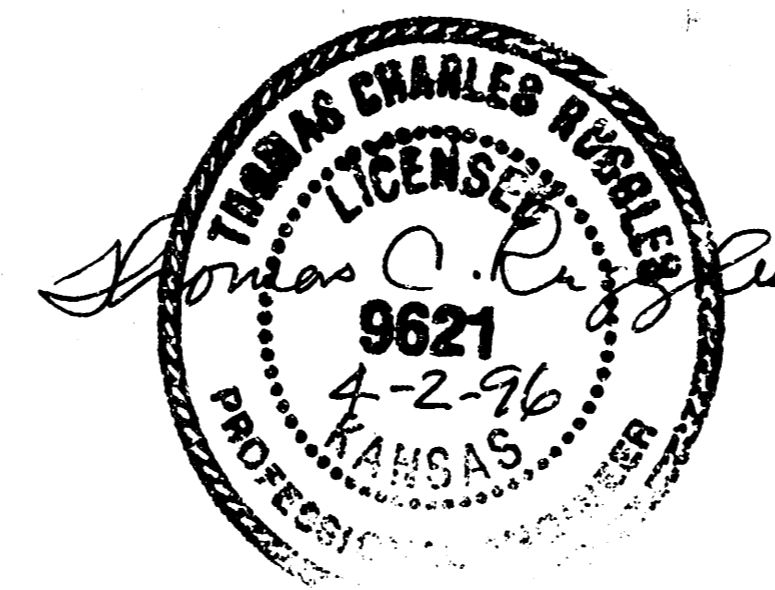
Site to drain to 10th Street through proposed drive and through two 6" pipes to curb

**BENCH MARKS**

BM #1 - City of Wichita, B.M. SE Corner of intersection of 9th St. N. & Grove  
 40' S. & 42' E. of centerline of both  
 Elev. 121.44 (City of Wichita Datum)  
 BM #2 - Railroad Spike in high line pole SW Corner of Minnesota & 10th St. N.  
 Elev. 114.27 (City of Wichita Datum)



NORTH  
 1" = 40'



**DRAINAGE PLAN  
 K.C. ESTATES**

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**SAVOY, RUGGLES & BOHM, P.A.**  
 ENGINEERING & SURVEYING