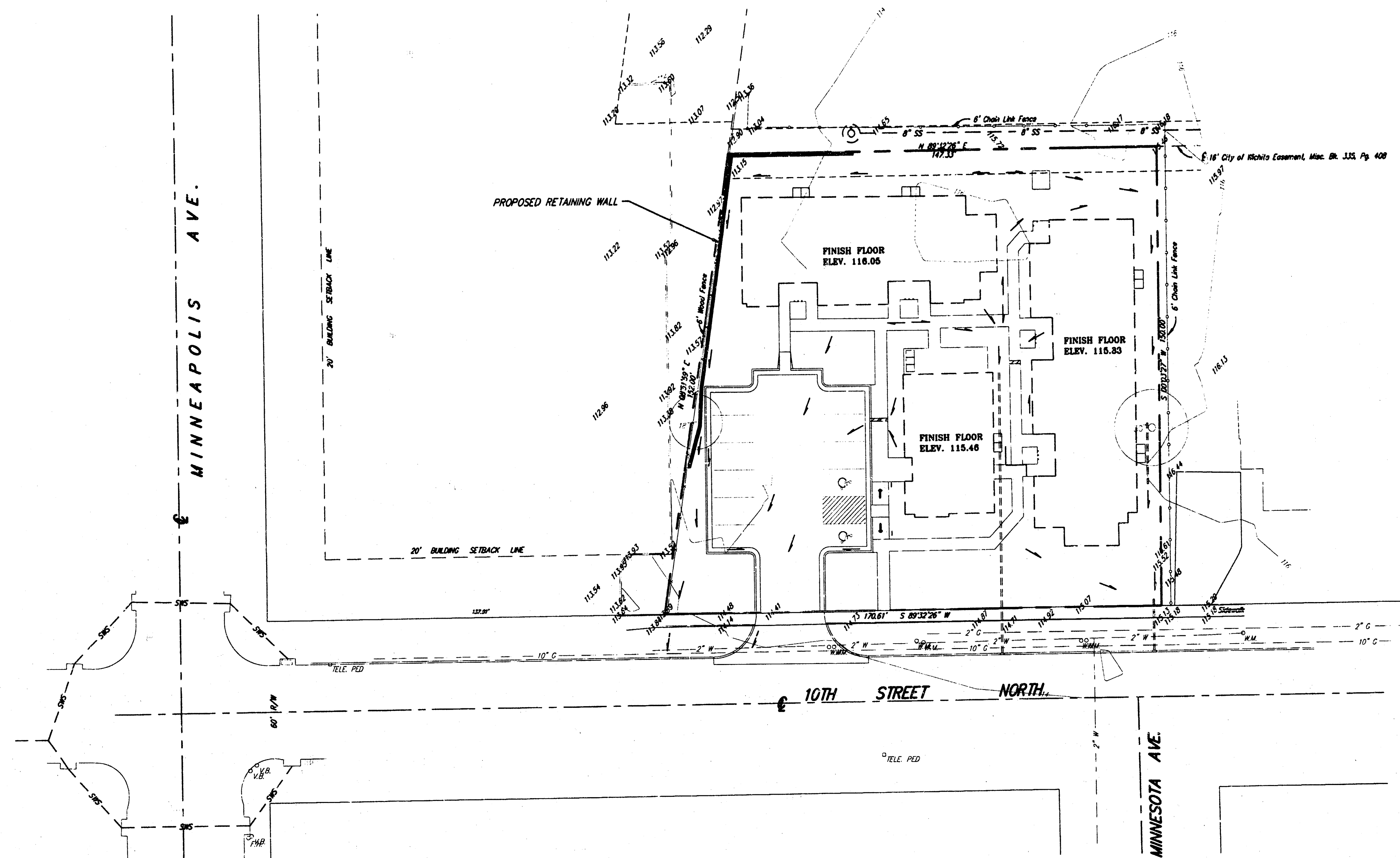




RUNOFF CALCULATIONS

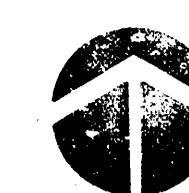
By Rational Formula: $Q = CIA$
 Impervious Area = 0.32 acre
 Pervious Area = 0.23 acre
 D.A. to street = 0.55 acre
 C_{im} impervious = 0.95
 C_{im} pervious = 0.65
 C_m weighted = 0.82
 Assume time of concentration = 10 min.
 $I_p = 5.34$ in./hr. $I_m = 8.54$ in./hr.
 $Q_{im} = 2.4$ cfs $Q_m = 3.9$ cfs

NOTE

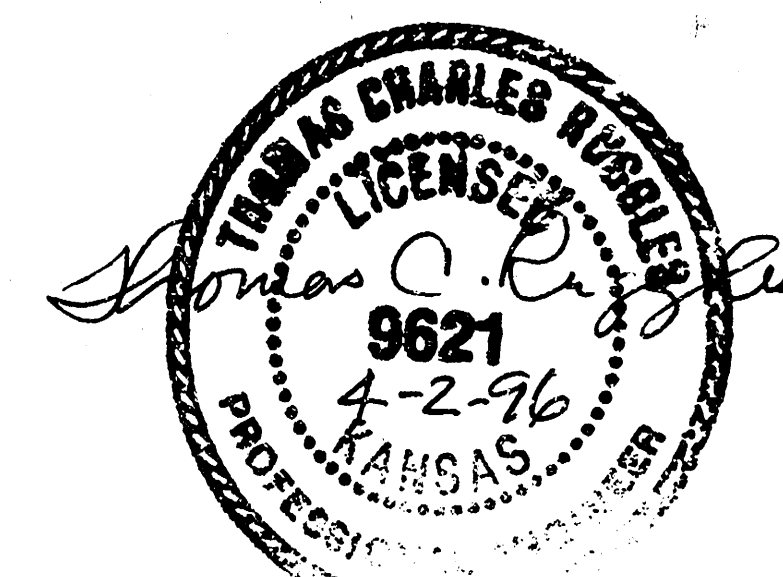
Site to drain to 10th Street through proposed drive and through two 6" pipes to curb

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

SRB 324 NORTH MAIN WICHITA, KANSAS 67203 316-264-8008
SAVOY, RUGGLES & BOHM, P.A. FAX 316-264-4621
 ENGINEERING & SURVEYING