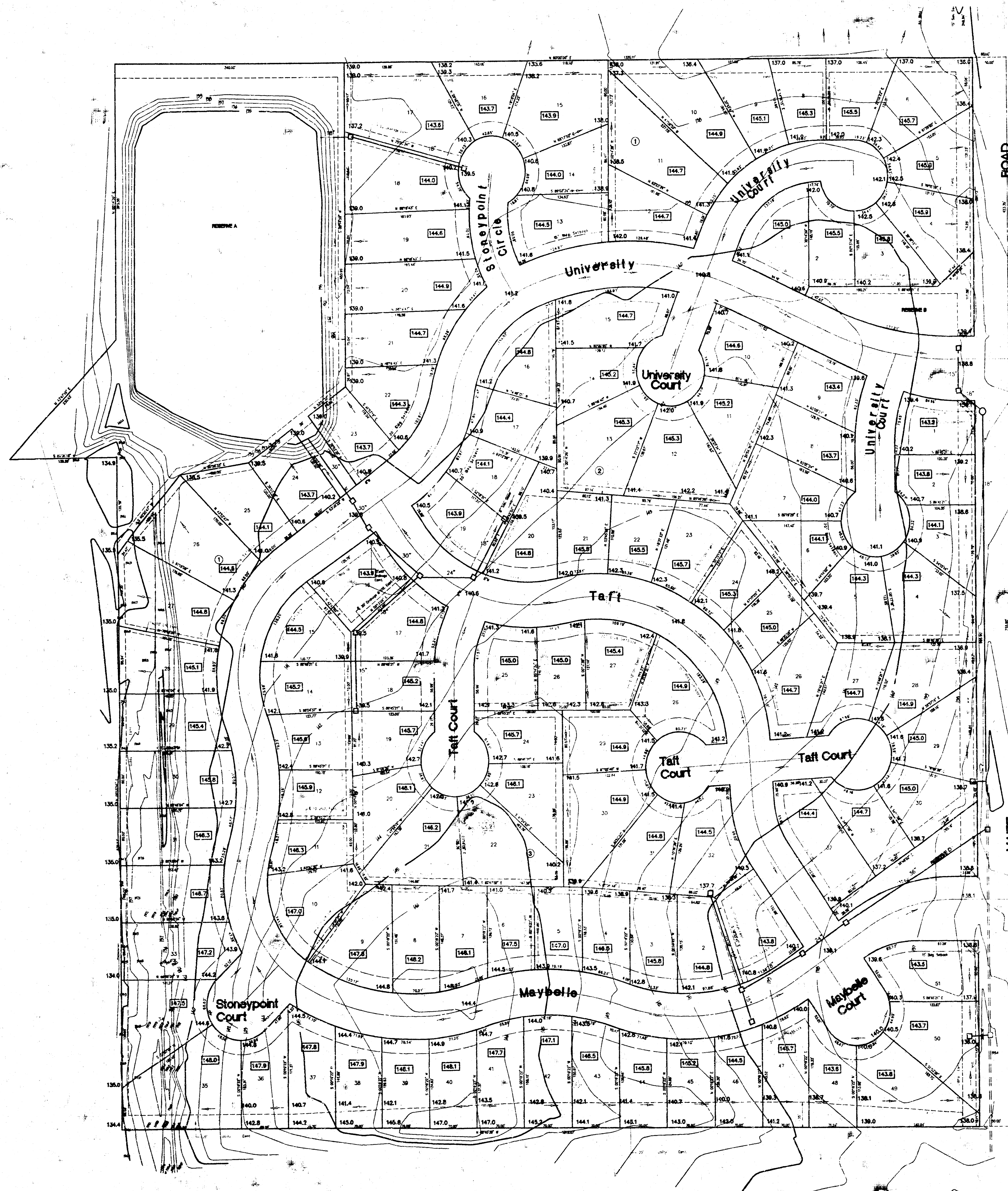




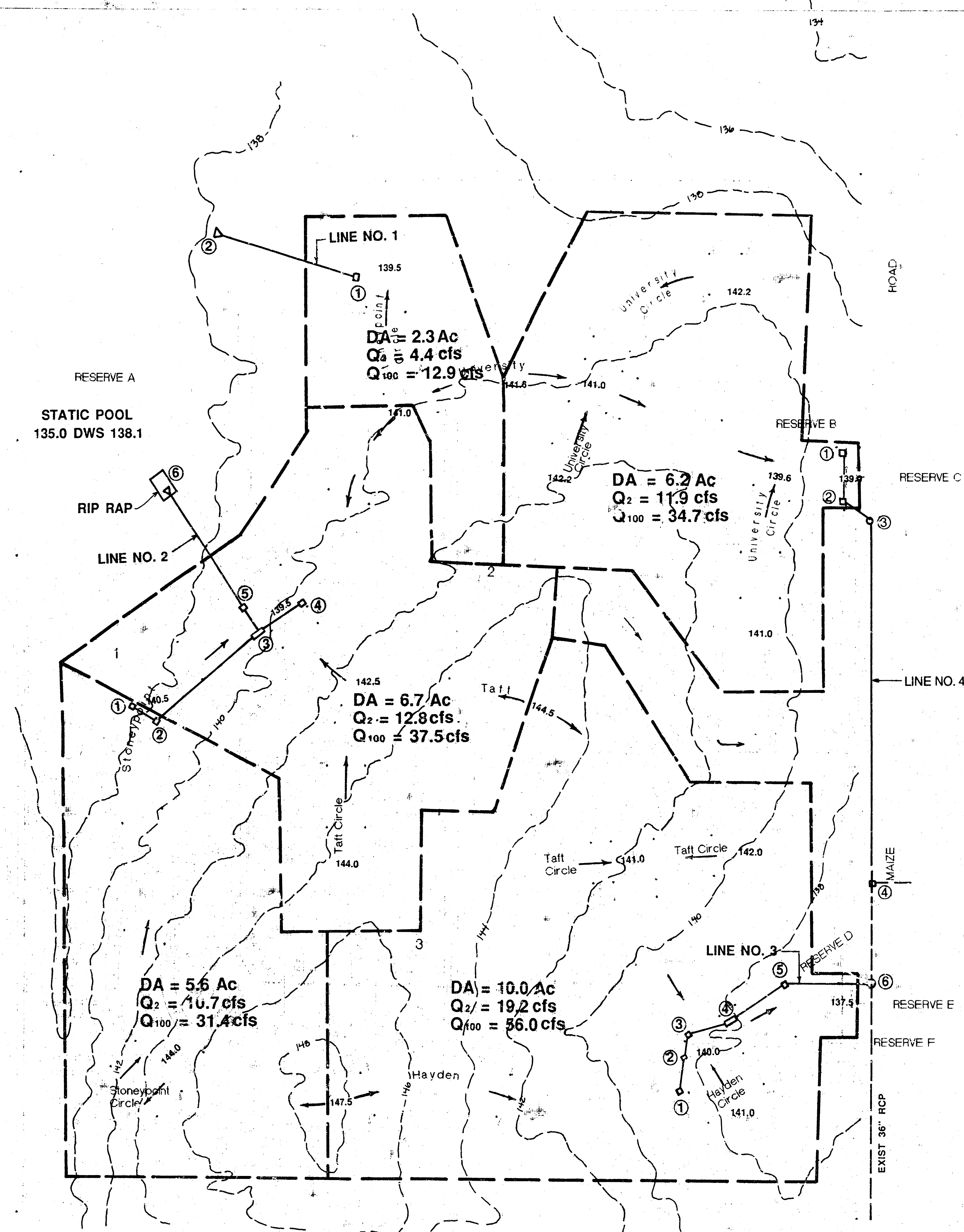
LOT GRADING PLAN LEXINGTON ADDITION

Date: December 9, 1992

Scale 1" = 80'

**APPROVED
DRAINAGE PLAN**

Poe and Associates of Kansas, Inc.
Consulting Engineers



LINE NO. 2

NO.	Q ₂	PIPE SIZE	PIPE CAPACITY	PIPE VELOCITY	Q ₁₀₀ BYPASS	STRUCTURE
1	4.5	15"	4.5			INLET
2	9.0	24"	15.0			INLET
3	4.0	15"	4.5			DBL INLET
4/3	20.5	30"	28.0			INLET
5	23.5	30"	28.0	5.7 FPS	40.9*	INLET
6						END SEC.

*CONSTR. "V" SWALE @ 0.4%, 7.5:1 SIDES, DEPTH 1.5'
 n=.030 Q=40.9 CFS V=2.53 fps
 USE RIP RAP AT STORM SEWER OUTLET

LINE NO. 1

NO.	Q ₂	PIPE SIZE	PIPE CAPACITY	PIPE VELOCITY	Q ₁₀₀ BYPASS	STRUCTURE
1	4.4	18"	8.0	4.5	4.9*	INLET
2						END SEC.

*CONSTR. "V" SWALE @ .4%, 6.5:1 SIDES, DEPTH .7'
 n=.030 Q=4.9 CFS V=1.54 fps

LINE NO. 3

NO.	Q ₂	PIPE SIZE	PIPE CAPACITY	PIPE VELOCITY	Q ₁₀₀ BYPASS	STRUCTURE
1	3.0	15"	4.5			INLET
2	7.0	24"	15.0			INLET
3	11.0	24"	15.0			INLET
4	15.0	36"	46.0			DBL INLET
5	19.2	36"	46.0	2.7 fps	10.0	INLET
6						MANHOLE

LINE NO. 4

NO.	Q ₂	PIPE SIZE	PIPE CAPACITY	PIPE VELOCITY	Q ₁₀₀ BYPASS	STRUCTURE
1	4.7	15"	4.7			INLET
2	9.4	18"	9.4			INLET
3	9.4	18"	9.4	5.2 FPS	25.3	MANHOLE
4					(NORTH)	EXIST. INLET

RATIONAL FORMULA FACTORS
 $T_c = 15$ MIN. $C_2 = .5$
 $I_2 = 3.83$ $C_{100} = .76$
 $I_{100} = 7.37$

Scale 1" = 100'

DRAINAGE PLAN LEXINGTON

REVISED NOVEMBER 10, 1992

AN ADDITION TO WICHITA, KANSAS

POE & ASSOCIATES OF KANSAS, INC.

Consulting Engineers
 434 N. Oliver Suite 110 Wichita KS 67208 316/6854114