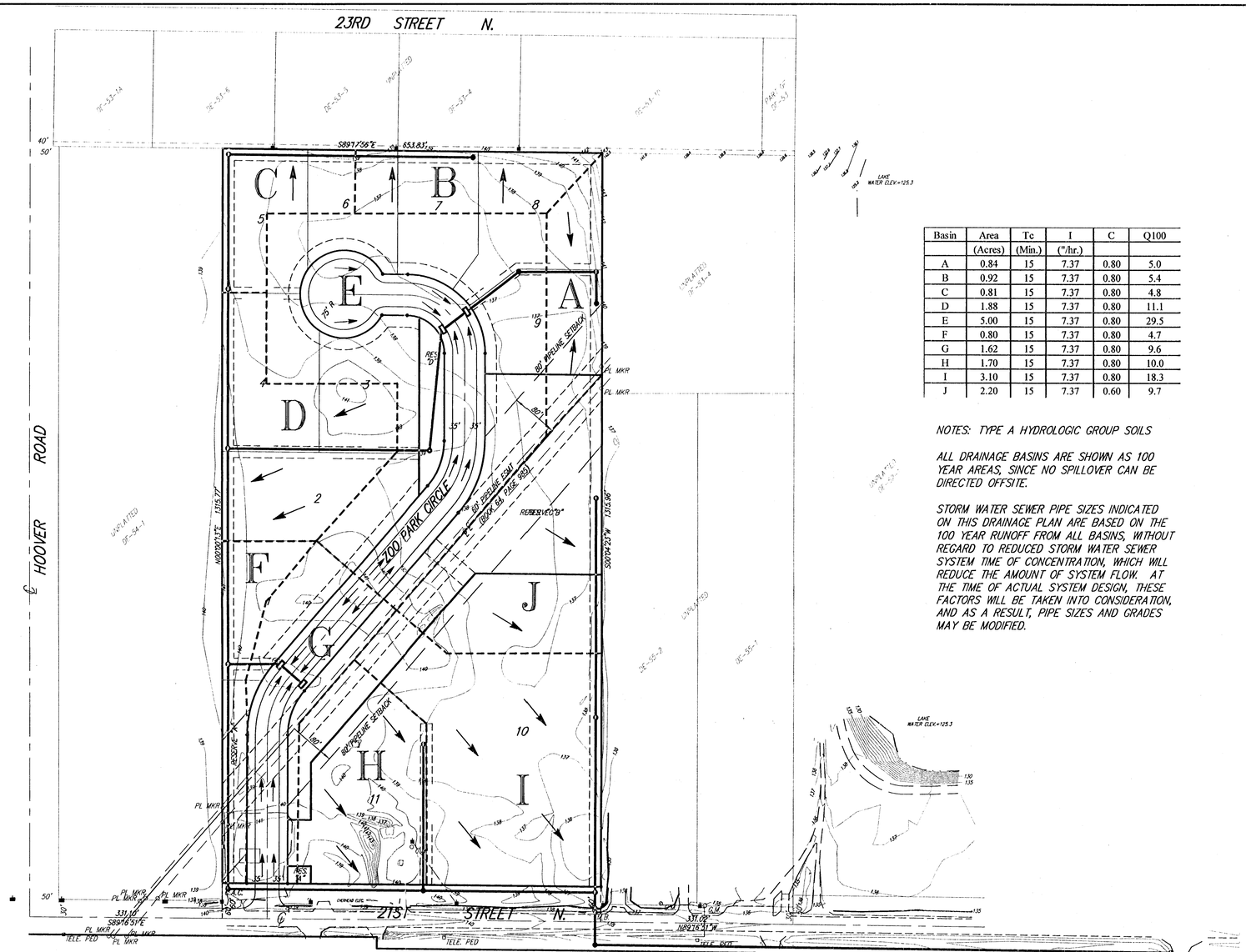
DRAINAGE PLAN
ZOO BUSINESS PARK

WICHITA, SEDGWICK COUNTY, KANSAS

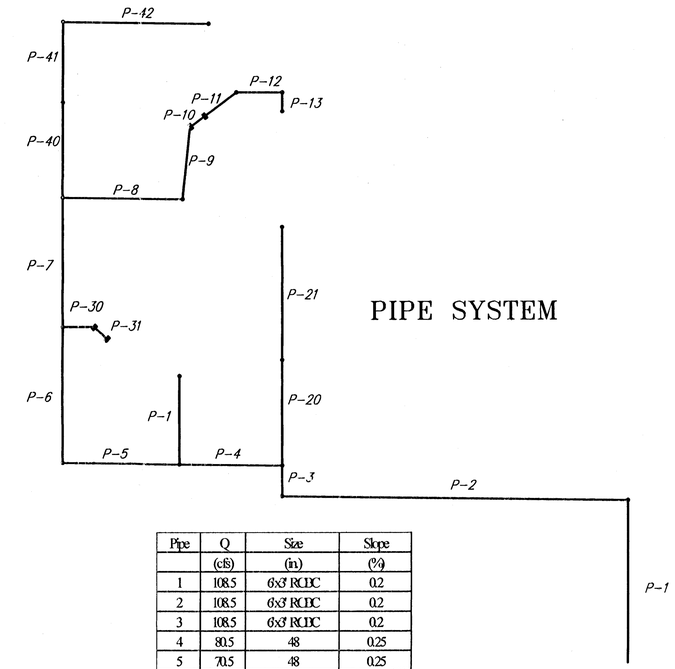


Basin	Area	Tc	I	C	Q100
	(Acres)	(Min.)	("/hr.)		
A	0.84	15	7.37	0.80	5.0
B	0.92	15	7.37	0.80	5.4
C	0.81	15	7.37	0.80	4.8
D	1.88	15	7.37	0.80	11.1
E	5.00	15	7.37	0.80	29.5
F	0.80	15	7.37	0.80	4.7
G	1.62	15	7.37	0.80	9.6
H	1.70	15	7.37	0.80	10.0
I	3.10	15	7.37	0.80	18.3
J	2.20	15	7.37	0.60	9.7

NOTES: TYPE A HYDROLOGIC GROUP SOILS

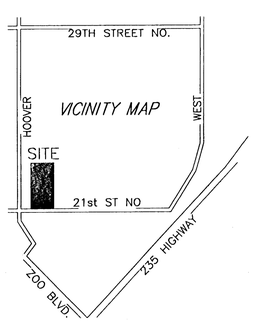
ALL DRAINAGE BASINS ARE SHOWN AS 100 YEAR AREAS, SINCE NO SPILLOVER CAN BE DIRECTED OFFSITE.

STORM WATER SEWER PIPE SIZES INDICATED ON THIS DRAINAGE PLAN ARE BASED ON THE 100 YEAR RUNOFF FROM ALL BASINS, WITHOUT REGARD TO REDUCED STORM WATER SEWER SYSTEM TIME OF CONCENTRATION, WHICH WILL REDUCE THE AMOUNT OF SYSTEM FLOW. AT THE TIME OF ACTUAL SYSTEM DESIGN, THESE FACTORS WILL BE TAKEN INTO CONSIDERATION, AND AS A RESULT, PIPE SIZES AND GRADES MAY BE MODIFIED.



PIPE SYSTEM

Pipe	Q	Size	Slope
	(cfs)	(in.)	(%)
1	108.5	6x3 RCDC	0.2
2	108.5	6x3 RCDC	0.2
3	108.5	6x3 RCDC	0.2
4	80.5	48	0.25
5	70.5	48	0.25
6	68.8	48	0.25
7	55.8	48	0.27
8	34.5	48	0.26
9	34.5	36	0.29
10	19.0	24	0.83
11	5.0	15	0.53
12	5.0	15	0.53
13	2.0	15	0.53
20	18.7	24	0.68
21	9.7	18	0.85
30	10.0	24	0.55
31	5.0	18	1.04
40	10.2	24	0.3
41	5.4	15	0.35
42	5.4	15	0.35



BENCH MARK:
CITY OF WICHITA DISC
48.5' W. & 28.0' N. OF CENTERLINE INTERSECTION
OF HOOVER RD & 21ST STREET N.
ELEV.=139.07 (CITY DATUM)

ON SITE B.M.:
RAILROAD SPIKE IN POWER POLE
@ S.W. COR. OF SUBJECT PROPERTY
ELEV.=139.85 (CITY DATUM)

DRAINAGE DIRECTED TO CITY OF WICHITA WATER DEPARTMENT PROPERTY (SAND PIT)

DRAINAGE PLAN
ZOO BUSINESS PARK

SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
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SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

PROJECT NUMBER

DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
C. Bohm	C. Bohm			7-6-00	

DWG. TITLE drainage plan

SRB JOB

SHEET 1 OF 1