DRAINAGE PLAN

AUBURN HILLS 5TH ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

0 100 200

MINIMUM BUILDING PAD ELEVATION FOR LOWEST OPENING TO THE STRUCTURES			
LOT	BLOCK	ELEVATION	
		CITY DATUM	MSL
8–17	2	209.5	1396.9
22–31	2	209.5	1396.9
42 & 43	4	206.5	1393.9

Drainage Area	Area (acres)	C_5	C_{100}	T_c (min.)	I_5 (in/hr)	I_{100} (in/hr)	Q_5 (cfs)	Q_{100} (cfs)
1	1.3	0.45	0.45	15	3.83	7.36	2.2	4.3
2	1.2	0.45	0.45	15	3.83	7.36	2.1	4.0
3	0.4	0.54	0.54	15	3.83	7.36	0.8	1.6
4	2.5	0.54	0.54	15	3.83	7.36	5.2	10.0
5	0.9	0.54	0.54	15	3.83	7.36	1.9	3.6
6	2.3	0.54	15	15	3.83	7.36	4.8	9.1
7	1.2	0.45	0.45	15	3.83	7.36	2.1	4.0
8	0.8	0.54	0.54	15	3.83	7.36	1.7	3.2
9	2.5	0.45	0.45	15	3.83	7.36	4.3	8.3
10	2.3	0.54	0.54	15	3.83	7.36	4.8	9.2
11	1.5	0.54	0.54	15	3.83	7.36	3.1	6.0
12	1.3	0.54	0.54	15	3.83	7.36	2.7	5.2
13	1.0	0.54	0.54	15	3.83	7.36	2.1	4.0
14	2.8	0.45	0.45	15	3.83	7.36	4.8	9.3
15	1.7	0.54	0.54	15	3.83	7.36	3.5	6.8
16	0.9	0.54	0.54	15	3.83	7.36	1.9	3.6
17	1.4	0.50	0.50	15	3.83	7.36	2.7	5.2
18	1.1	0.50	0.50	15	3.83	7.36	2.1	4.0
19	1.4	0.54	0.54	15	3.83	7.36	2.9	5.6
20	1.1	0.54	0.54	15	3.83	7.36	2.3	4.4

Drainage Area	Area (acres)	C_5	C_{100}	T_c (min.)	I_5 (in/hr)	I_{100} (in/hr)	Q_5 (cfs)	Q_{100} (cfs)
21	1.2	0.54	0.54	15	3.83	7.36	2.5	4.8
22	1.3	0.54	0.54	15	3.83	7.36	2.7	5.2
23	0.7	0.54	0.54	15	3.83	7.36	1.4	2.8
24	0.9	0.45	0.45	15	3.83	7.36	1.6	3.0
25	0.8	0.54	0.54	15	3.83	7.36	1.7	3.2
26	1.2	0.54	0.54	15	3.83	7.36	2.5	4.8
27	0.4	0.4	0.4	15	3.83	7.36	0.6	1.2
28	0.7	0.4	0.4	15	3.83	7.36	1.1	2.1
29	0.5	0.4	0.4	15	3.83	7.36	0.8	1.5
30	0.4	0.4	0.4	15	3.83	7.36	0.6	1.2
31	0.9	0.54	0.54	15	3.83	7.36	1.9	3.6
32	0.8	0.54	0.54	15	3.83	7.36	1.7	3.2
33	0.9	0.54	0.54	15	3.83	7.36	1.9	3.6
34	4.1	0.54	0.54	15	3.83	7.36	8.5	16.3
35	0.6	0.4	0.4	15	3.83	7.36	0.9	1.8
36	0.3	0.4	0.4	15	3.83	7.36	0.5	0.9
37	4.1	0.54	0.54	15	3.83	7.36	8.5	16.3
38	1.8	0.4	0.4	15	3.83	7.36	2.8	5.5

Off-site Drainage
Q100 = 70 cfs

Off-site Flow
Outflow from Reece Farms Estates
plus residential runoff from west of 151st St. West
Q100 = 65 cfs

MOSEELYN

RESERVE "C"

Proposed Pond
Static WS Elev. = 195.0
100-YR WS Elev. = 207.3
100-YR Floorate = 190 cfs

THREEWOOD

THREEWOOD CT.

FAIRWOOD

FAIRWOOD CT.

LYNNDALE

SANDWEDGE

SANDWEDGE CIR.

FIVEWOOD

FIVEWOOD CT.

FIVEWOOD CIR.

151ST STREET WEST

RES. "A"

RES. "B"

RES. "C"

RES. "D"

RES. "E"

RES. "F"

RES. "H"

Off-site Flow
Residential runoff from
west of 151st St. W.
Q100 = 270 cfs

Off-site Flow
Residential runoff from
west of 151st St. W.
Q100 = 55 cfs

TOTAL OUTFLOW FROM RCBC
100-YR STORM Q=530 cfs

Proposed Pond
Static WS Elev. = 190

TEMPORARY CUL-DE-SAC EASEMENT
(BY SEPARATE INSTRUMENT)

US HIGHWAY 54
CONDEMNATION CASE NO. A-38302

24 Nov 1997

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