

DRAINAGE PLAN COPPER GATE NORTH ADDITION WICHITA, SEDGWICK COUNTY, KANSAS

The main map shows a grid of lots numbered 1 through 28. Streets include WESTBEN, AKSARBEN, DECKER DRIVE, OLD WICK RD., ALTIMAN BRIDGE, and 135TH STREET WEST. A detention pond is located near lot 10, labeled "Detention Pond Slope NS E = 165.00 100'-x- NS E = 171.63". Various drainage features are indicated, such as "5' wide triangular concrete flume", "30\" x 18\" HERCP", and "15\" RCP". Contour lines show elevation changes across the site.

SCALE: 1"=100'

LEGEND

- = AREA INLET
- = CATCH BASIN
- = DRAINAGE PIPE
- = CONCRETE DRAINAGE FLUME
- = DRAINAGE BASIN DELINEATOR
- = DRAINAGE BASIN IDENTIFIER
- = EXISTING CONTOURS
- = DIRECTION OF STORMWATER FLOW
- = NEW CONTOURS

COPPER GATE NORTH ADDITION: STORMWATER FLOWS

BASIN ID #	BASIN AREA (acres)	Time of Concentration (min)	RUNOFF COEFFICIENTS			PEAK FLOWRATE		
			2-y C	5-y C	100-y C	2-y cfs	5-y cfs	100-y cfs
1	0.9	15	0.48	0.51	0.68	1.7	2.1	4.5
2	0.2	15	0.48	0.51	0.68	0.4	0.5	1.0
3	0.5	15	0.48	0.51	0.68	0.9	1.2	2.5
4	0.4	15	0.48	0.51	0.68	0.7	0.9	2.0
5	1.4	15	0.48	0.51	0.68	2.6	3.3	7.0
6	1.2	15	0.48	0.51	0.68	2.2	2.8	6.0
7	0.9	15	0.48	0.51	0.68	1.7	2.1	4.5
8	0.9	15	0.48	0.51	0.68	1.7	2.1	4.5
9	0.4	15	0.48	0.51	0.68	0.7	0.9	2.0
10	0.6	15	0.48	0.51	0.68	1.1	1.4	3.0
11	1.8	15	0.48	0.51	0.68	3.3	4.2	9.0
12	2.2	15	0.48	0.51	0.68	4.0	5.1	11.0
13	0.9	15	0.48	0.51	0.68	1.7	2.1	4.5
14	0.7	15	0.48	0.51	0.68	1.3	1.6	3.5
15	1.2	15	0.48	0.51	0.68	2.2	2.8	6.0
16	0.9	15	0.48	0.51	0.68	1.7	2.1	4.5
17	2.8	15	0.48	0.51	0.68	5.1	6.5	14.0
18	3.0	15	0.48	0.51	0.68	5.5	7.0	15.0
19	1.6	15	0.48	0.51	0.68	2.9	3.7	8.0
20	4.8	15	0.48	0.51	0.68	8.8	11.2	24.1
21	1.3	15	0.48	0.51	0.68	2.4	3.0	6.5
22	1.9	15	0.48	0.51	0.68	3.5	4.4	9.5
23	0.9	15	0.48	0.51	0.68	1.7	2.1	4.5
24	1.3	15	0.48	0.51	0.68	2.4	3.0	6.5
25	1.6	15	0.48	0.51	0.68	2.9	3.7	8.0
26	1.2	15	0.48	0.51	0.68	2.2	2.8	6.0
27	0.8	15	0.48	0.51	0.68	1.5	1.9	4.0
28	1.1	15	0.48	0.51	0.68	2.0	2.6	5.5

VICINITY MAP

MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING TO THE STRUCTURES		
LOT	BLOCK	ELEVATION CITY DATUM
2-11, 13-21	F	173.5

29 MARCH 2004
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
318-292-7271 • 318 ELLIS • WICHITA, KANSAS 67211

COPPER GATE NORTH ADDITION: STORMWATER FLOWS								
BASIN ID #	BASIN AREA (acres)	Time of Concentration (min)	RUNOFF COEFFICIENTS			PEAK FLOWRATE		
			2-yr C	5-yr C	100-yr C	2-yr cfs	5-yr cfs	100-yr cfs
1	0.9	15	0.48	0.51	0.68	1.7	2.1	4.5
2	0.2	15	0.48	0.51	0.68	0.4	0.5	1.0
3	0.5	15	0.48	0.51	0.68	0.9	1.2	2.5
4	0.4	15	0.48	0.51	0.68	0.7	0.9	2.0
5	1.4	15	0.48	0.51	0.68	2.6	3.3	7.0
6	1.2	15	0.48	0.51	0.68	2.2	2.8	6.0
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10	0.6	15	0.48	0.51	0.68	1.1	1.4	3.0
11	1.8	15	0.48	0.51	0.68	3.3	4.2	9.0
12	2.2	15	0.48	0.51	0.68	4.0	5.1	11.0
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16	0.9	15	0.48	0.51	0.68	1.7	2.1	4.5
17	2.8	15	0.48	0.51	0.68	5.1	6.5	14.0
18	3.0	15	0.48	0.51	0.68	5.5	7.0	15.0
19	1.6	15	0.48	0.51	0.68	2.9	3.7	8.0
20	4.8	15	0.48	0.51	0.68	9.8	11.2	24.1
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MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING TO THE STRUCTURES		
LOT	BLOCK	ELEVATION
		CITY DATUM
2-11, 13-21	F	173.5

21ST STREET NORTH

151ST STREET WEST

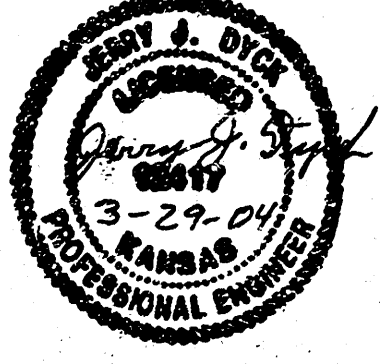
SEC. 11, T27S, R2W

137TH STREET WEST

13TH STREET NORTH

SITE

VICINITY MAP



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