

MID-KANSAS ENGINEERING CONSULTANTS, INC.
 411 North Webb Road
 Wichita, Kansas 67208
 316-884-4000 FAX 316-884-5100
LETTER OF TRANSMITTAL

PROJECT: Wilson Farms Addition TO: Ms. Vicky Huang
 City of Wichita - Engineering Dept.
 PROJECT NO: 96186-154 455 N. Main - 7th Floor
 DATE: March 12, 1997 Wichita, Kansas 67202

We are sending you the following items: Attached
 Under separate cover
 Via

Prints Specifications Computer Disks
 Contracts Petitions Other

COMMENTS: Enclosed is the Drainage and Utility plan for Wilson Farms Addition with drainage calculations.

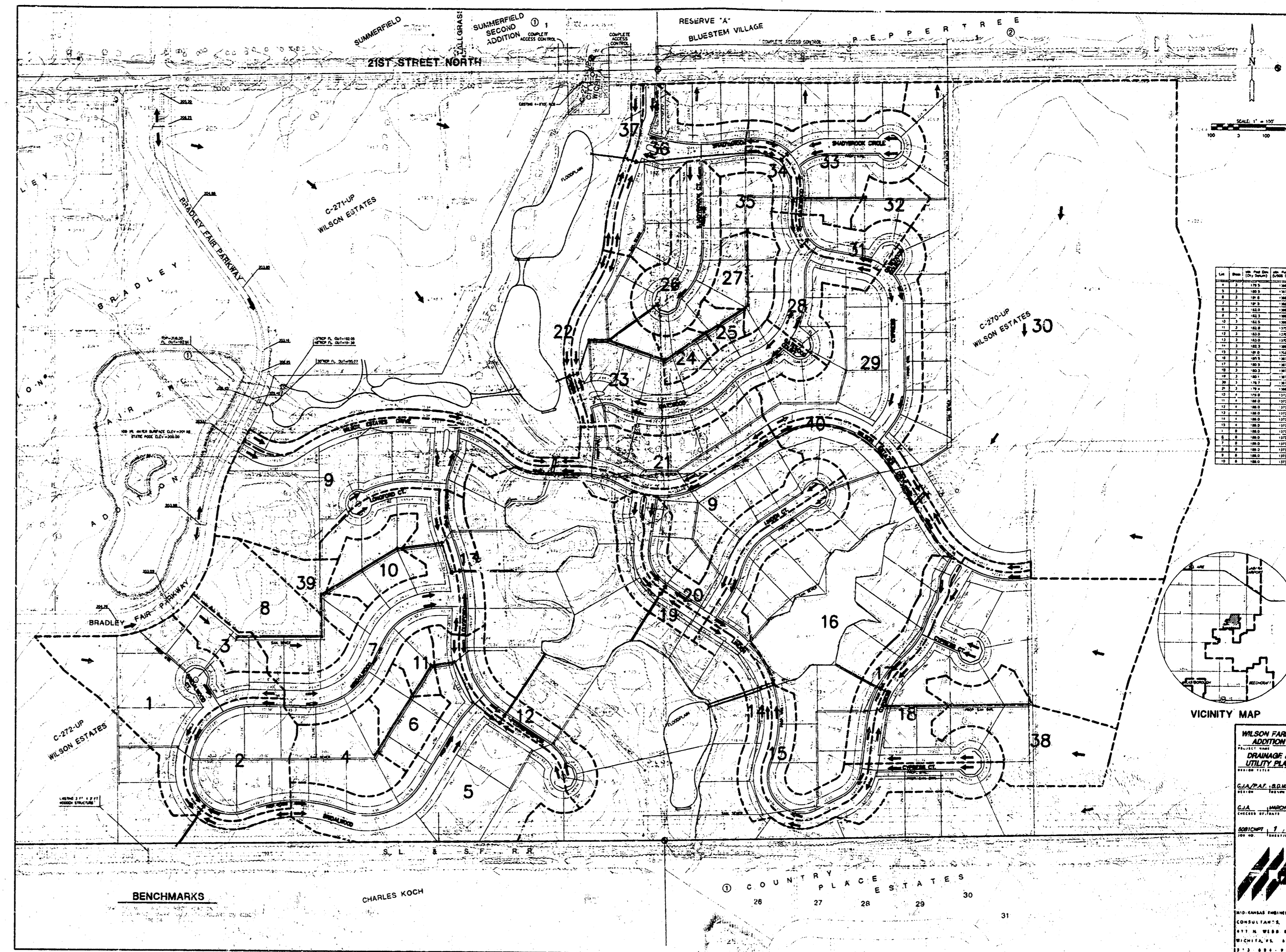
For Your Approval As Requested
 For Your Use For Your Files
 Approved As Noted For Review and Comment

REMARKS:

Signed: *Greg Allison*
 Greg Allison

GA/pf

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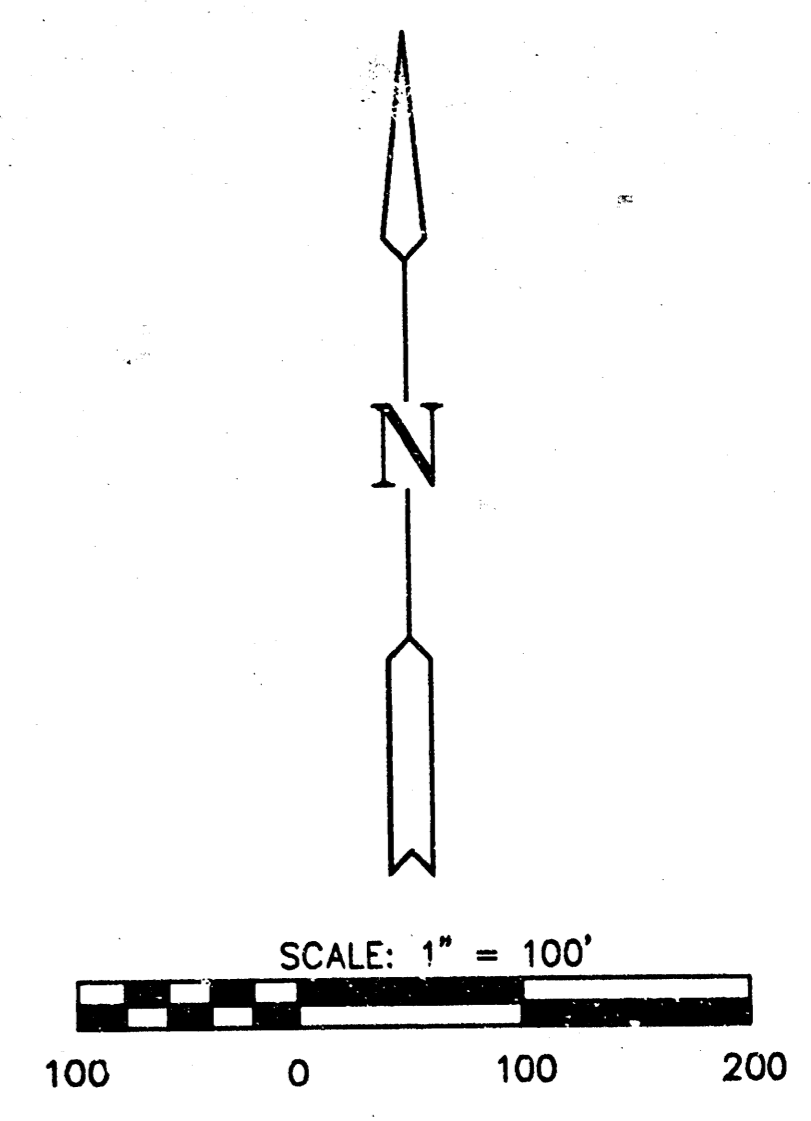
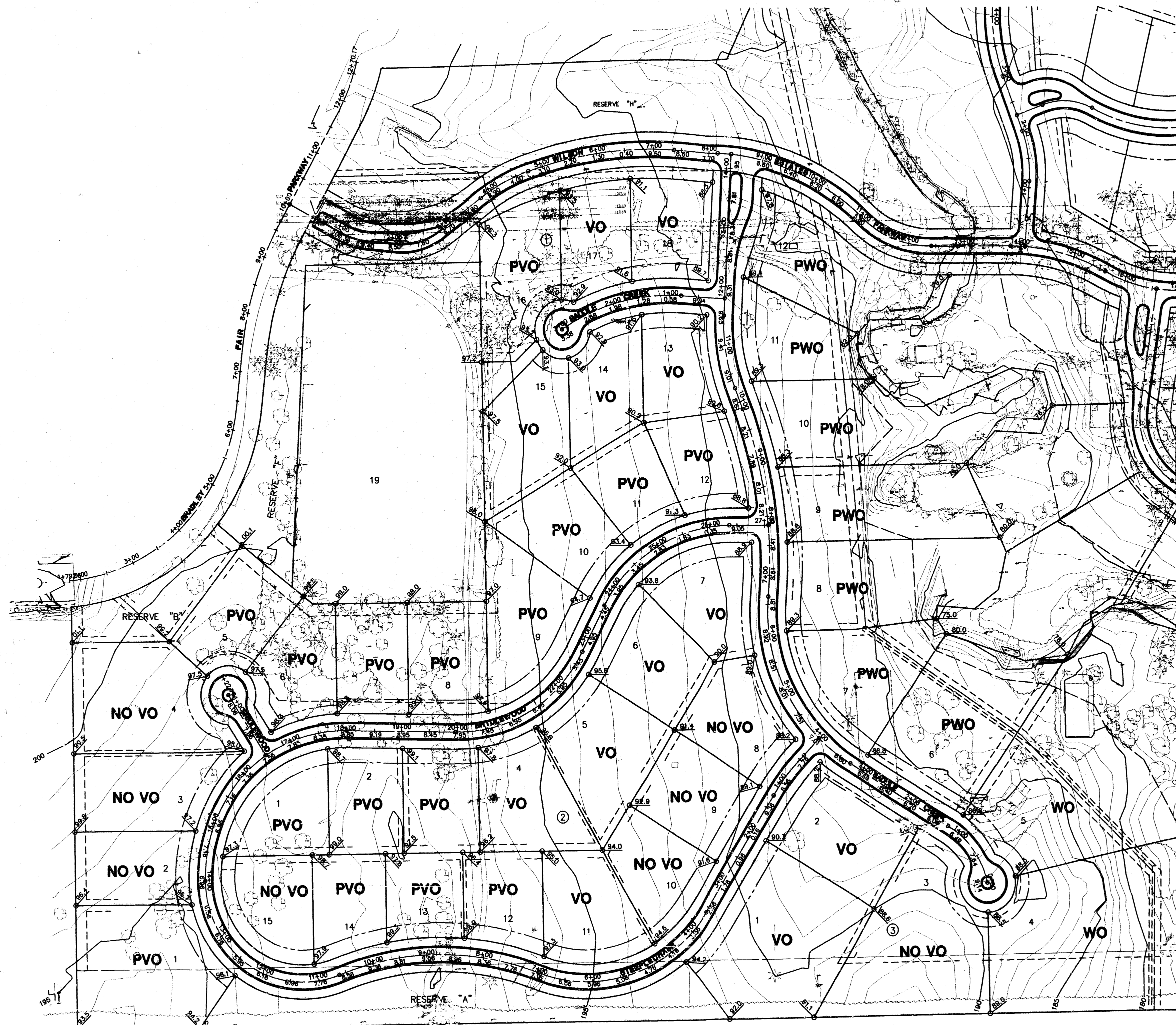


DRAINAGE ANALYSIS SUMMARY
 WILSON FARMS ADDITION

Area ID**	Area ac	C2	C5	C100	Tc2 min	Tc5	Tc100 min	I2" in/hr	I5 in/hr	I100" in/hr	Q2 cfs	Q5	Q100 cfs	Size ft	Size in	Min Slope %	COMMENTS
2	3.28	0.46	0.50	0.73	21	19	12	3.25	4.1	7.37	4.9	6.7	17.6	5	18	0.4	2 year design overflow to railroad ditch
1	5.17	0.46	0.50	0.73	29	27	18	2.72	3.43	6.84	6.5	8.9	25.8	5			overflow to railroad ditch
1+2	8.45	0.46	0.50	0.73	29	27	18	2.72	3.43	6.84	10.6	14.5	42.2	24		0.4	2 year design overflow to railroad ditch
3	0.99	0.46	0.50	0.73	21	19	12	3.25	4.1	7.37	1.5	2.0	5.3	area inlet	15	1.0	2 year design with 100 year design from area 8
8	2.99	0.46	0.50	0.73	30	28	17	2.67	3.37	7	3.7	5.0	15.3	area inlet			
3+8	3.98	0.46	0.50	0.73	30	28	17	2.67	3.37	7	4.9	6.7	20.3	24	1.0		100 year design from area 8 only
39	1.28	0.46	0.50	0.73	21	18	15	3.25	4.21	7.37	1.9	2.7	6.9	area inlet			
3+8+39	5.25	0.46	0.50	0.73	30	28	17	2.67	3.37	7	6.5	8.9	26.9	24	1.0		100 year design from area 8 only
10	1.49	0.45	0.50	0.73	17	16	15	3.61	4.56	7.37	2.5	3.4	8.0	area inlet			
3+8+39+10	6.75	0.46	0.50	0.73	30	28	17	2.67	3.37	7	8.3	11.1	34.5	24	1.0		100 year design from area 8 only
7	4.87	0.46	0.50	0.73	18	18	15	3.51	4.2	7.37	7.9	10.2	26.2				
3+8+39+10+7	11.92	0.46	0.50	0.73	30	28	17	2.67	3.37	7.00	14.3	19.6	59.4	2-10'	30	2.0	100 year design
13	1.01	0.39	0.41	0.57	15	15	15	3.83	4.56	7.37	1.5	1.9	4.2				
3+8+39+10+7+13	12.63	0.45	0.49	0.72	30	28	17	2.67	3.37	7	15.2	20.9	63.7	2-10'	42	2.0	100 year design
4	2.04	0.46	0.50	0.73	16	15	15	3.72	4.56	7.37	3.5	4.7	11.0	area inlet	15	1.25	2 year design
6+11	1.82	0.46	0.50	0.73	21	19	15	3.25	4.1	7.37	2.7	3.7	9.8	area inlet	15	0.8	2 year design
4+6+11	3.56	0.46	0.50	0.73	21	19	15	3.25	4.1	7.37	5.8	7.9	20.8	area inlet	15	1.2	2 year design
5	7.05	0.46	0.50	0.73	17	17	15	3.61	4.31	7.37	11.7	15.2	37.9				
4+6+11+5	19.91	0.46	0.50	0.73	21	19	15	3.25	4.1	7.37	16.3	22.4	58.7	2-10'	30	2.1	100 year design
12	1.68	0.44	0.47	0.68	15	15	15	3.83	4.56	7.37	2.8	3.6	8.4				
4+6+11+5+12	12.59	0.46	0.50	0.72	21	19	15	3.25	4.1	7.37	18.8	25.8	66.8	2-10'	36	2.5	100 year design
20	2.45	0.46	0.50	0.73	18	17	15	3.51	4.31	7.37	4.0	5.3	13.2	10	24	1.5	100 year design
19	1.28	0.44	0.48	0.68	15	15	15	3.83	4.56	7.37	2.1	2.8	6.4	5			


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 WILSON FARMS ADDITION

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20+19	3.72	0.45	0.49	0.72	18	17	15	3.51	4.31	7.37	5.9	7.9	19.7		24	1.1	100 year design
35	0.94	0.46	0.50	0.73	16	15	15	3.72	4.56	7.37	1.6	2.1	5.1	area inlet	15	0.4	2 year design
27	1.40	0.46	0.50	0.73	19	17	15	3.42	4.31	7.37	2.2	3.0	7.5	area inlet			
35+27	2.34	0.46	0.50	0.73	19	17	15	3.42	4.31	7.37	3.7	5.0	12.6		15	1.5	2 year design
25	0.46	0.46	0.50	0.73	15	15	15	3.83	4.56	7.37	0.8	1.0	2.5	area inlet			
35+27+25	2.80	0.46	0.50	0.73	19	17	15	3.42	4.31	7.37	4.4	6.0	15.1		15	1.0	2 year design
24	0.63	0.46	0.50	0.73	15	15	15	3.83	4.56	7.37	1.1	1.4	3.4	area inlet			
24+35+27+25	3.43	0.46	0.50	0.74	19	17	15	3.42	4.31	7.37	5.4	7.4	18.7		15	2.0	2 year design
26	2.69	0.46	0.50	0.73	15	15	15	3.83	4.56	7.37	4.7	6.1	14.5	10	18	2.0	2 year design
26+24+35+27+25	6.12	0.46	0.50	0.73	19	17	15	3.83	4.56	7.37	10.8	14.0	32.9		15	2.0	100 year design from area 26
23	5.78	0.45	0.49	0.70	19	18	15	3.42	4.2	7.37	8.9	11.9	29.6	2-10'			2 year design
23+26+24+35+27+25	11.90	0.46	0.50	0.72	19	18	15	3.42	4.2	7.37	18.7	25.0	63.1		30	2.5	100 year design
22	0.44	0.87	0.88	0.93	15	15	15	3.83	4.56	7.37	1.5	1.8	3.0	2-10'			100 year design
22+23+26+24+35+27+25	12.34	0.45	0.49	0.71	18	18	15	3.42	4.2	7.37	19.0	25.4	64.6		36	2.5	100 year design
31	1.08	0.46	0.50	0.73	15	15	15	3.83	4.56	7.37	1.9	2.5	5.6	5	18	0.4	100 year design
28	2.11	0.46	0.50	0.73	15	15	15	3.83	4.56	7.37	3.7	4.8	11.4	10			
28+31	3.19	0.46	0.50	0.73	15	15	15	3.83	4.56	7.37	5.6	7.3	17.2		30	0.4	100 year design
32	0.75	0.46	0.50	0.73	16	15	15	3.72	4.56	7.37	1.3	1.7	4.0	area inlet	15	0.8	2 year design
12+28+31	3.94	0.46	0.50	0.73	16	15	15	3.72	4.56	7.37	6.7	9.0	21.2		24	1.4	
33	3.39	0.46	0.50	0.73	15	15	15	3.83	4.56	7.37	6.0	7.7	18.2	15	24	1.0	100 year design
34	0.59	0.46	0.50	0.73	15	15	15	3.83	4.56	7.37	1.0	1.3	3.2	5			100 year design
34+33+32+28+31	7.92	0.46	0.50	0.73	16	15	15	3.72	4.56	7.37	13.6	18.1	42.6		30	1.4	100 yr design
36	3.13	0.44	0.48	0.68	17	16	15	3.61	4.43	7.37	5.0	6.7	15.7	15			100 year design



APPROVED
DRAINAGE PLAN

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 MID-KANSAS ENGINEERING CONSULTANTS, INC. 411 N. WEBB ROAD WICHITA, KS. 67206 316-684-9600	WILSON ESTATES ADDITION		
	PROJECT NAME		
	GRADING		
	SHEET TITLE		
DESIGN BY: GJA	DRAWN BY: KKL/GJR	CHECKED BY: GJA	
DATE: JUL 1997	JOB NO.: GRADING.DWG	SHEET OF: 1 / 1	