

DRAINAGE ANALYSIS SUMMARY
REGENCY PARK ADDITION

Area ID**	Area ac	C2	C5	C100	Tc2 min	Tc5 min	Tc100 min	I2" in/hr	I5 in/hr	I100" in/hr	Q2 cfs	Q5 cfs	Q100 cfs	Size ft	Size in	Min Slope %	COMMENTS	
M+L+K	5.05	0.68	0.69	0.80	16	15	15	3.72	4.43	7.37	12.8	15.4	29.8	24	0.6	5 YR		
J	3.32	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	8.8	10.4	19.6	area inlet			BYPASS	
S+T+U+Z+Y+X+W+V+G+F+H+I+M+L+K+J	63.43	0.51	0.53	0.67	47	46	35	2.02	2.54	5	65.3	85.4	212.5	54	0.6	10 CFS SOCCER, 100 YR G & F, 5 YR ELSEWHERE		
EE	3.11	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	8.1	9.8	18.3	10	24	0.4	5 YR, BYPASS	
FF	1.25	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	3.3	3.9	7.4	10	15	0.4	5 YR, BYPASS	
EE+FF	4.36	0.68	0.69	0.80	29	29	25	2.72	3.3	5.9	10.6	13.0	25.7	24	1.0	5 YR		
E	5.73	0.68	0.69	0.80	29	29	25	2.72	3.3	5.9	10.6	13.0	27.0	15'			5 YR, BYPASS	
S+T+U+Z+Y+X+W+V+G+F+H+I+M+L+K+J+EE+FF+E	73.52	0.53	0.55	0.69	48	47	36	2	2.5	4.93	77.9	101.1	250.1	66	3.4	10 CFS SOCCER, 100 YR G & F, 5 YR ELSEWHERE		
D	3.47	0.68	0.69	0.80	19	19	18	3.42	4.1	6.84	8.1	9.8	19.0	10			5 YR BYPASS	
S+T+U+Z+Y+X+W+V+G+F+H+I+M+L+K+J+EE+FF+E+D	76.99	0.54	0.56	0.70	48	47	36	2	2.5	4.93	83.1	107.8	265.7	66	0.4	10 CFS SOCCER, 100 YR G & F, 5 YR ELSEWHERE		
C	5.69	0.68	0.69	0.80	20	19	16	3.33	4	6.53	12.9	15.7	29.7	24			5 YR, OVERFLOW TO SOUTH STORAGE AREA	
T+U+Z+Y+X+W+V+G+F+H+I+M+L+K+J+EE+FF+E+D+	86.28	0.55	0.57	0.71	49	48	37	1.97	2.47	4.86	93.5	121.5	297.7	66	0.4	10 CFS SOCCER, 100 YR G & F, 5 YR ELSEWHERE		
AA	3.67	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	9.6	11.5	21.6	20	30	0.4	100 YR, SUMP	
GG	0.86	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	2.2	2.7	5.1	5			100 YR, SUMP	
AA+GG	4.53	0.68	0.69	0.80	16	15	15	3.83	4.56	7.37	11.8	14.3	26.7	36	0.4	100 YR		
BB	0.72	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	1.9	2.3	4.2	5	15	0.4	100 YR, SUMP	
CC	0.89	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	2.3	2.8	5.2	5			100 YR, SUMP	
BB+CC	1.61	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	4.2	5.1	9.5	24	0.4	100 YR		
HH	19.87	0.68	0.69	0.80	21	20	15	3.25	4	7.37	43.9	54.8	117.2	X-ROAD				
BB+CC+HH	21.48	0.68	0.69	0.80	21	20	15	3.25	4	7.37	47.5	60.3	126.6	48	1.0	100 YR		
AA+GG+HH+BB+CC	28.01	0.68	0.69	0.80	21	20	15	3.25	4	7.37	57.5	71.8	153.4	54	1.0	100 YR		
N	2.05	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	5.3	6.5	12.1	area inlet	18	0.4	5 YR, BYPASS	
O	1.93	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	5.0	6.1	11.4	area inlet			5 YR, BYPASS	
N+O	3.98	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	10.4	12.5	23.5	24	0.4	5 YR		
P	1.40	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	3.6	4.4	8.3	area inlet			100 YR, SUMP	
N+O+P	5.28	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	13.7	16.6	31.0	36	0.4	100 YR FROM ARREA P, 5 YR ELSEWHERE		
Q	1.87	0.68	0.69	0.80	16	16	15	3.72	4.43	7.37	4.7	5.7	11.0	X-ROAD				

199606104DRAINAGE.WK4

2

Mid-Kansas Engineering Consultants, Inc.

DRAINAGE ANALYSIS SUMMARY
REGENCY PARK ADDITION

Area ID**	Area ac	C2	C5	C100	Tc2 min	Tc5 min	Tc100 min	I2" in/hr	I5 in/hr	I100" in/hr	Q2 cfs	Q5 cfs	Q100 cfs	Size ft	Size in	Min Slope %	COMMENTS
A	1.11	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	2.9	3.5	6.5	10'	18	0.4	100 YR, SUMP
B	2.14	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	5.6	6.7	12.6	10'	24	0.4	100 YR, SUMP
S	10.39	0.33	0.35	0.55	31	30	22	2.62	3.24	6.26	9.0	11.8	35.8	area inlet	15	0.4	MINIMUM PIPE SIZES DUE TO STORAGE ON SOCCER FIELDS
T	8.20	0.33	0.35	0.55	35	34	25	2.44	3.01	5.9	6.6	8.6	26.6	area inlet			
S+T	18.59	0.33	0.35	0.55	35	34	25	2.44	3.01	5.9	15.0	19.6	60.3	area inlet	15	0.4	MINIMUM PIPE SIZES DUE TO STORAGE ON SOCCER FIELDS
U	9.50	0.33	0.35	0.55	42	41	30	2.18	2.72	5.4	6.8	9.0	28.2	area inlet			
S+T+U	28.09	0.33	0.35	0.55	42	41	30	2.18	2.72	5.4	20.2	26.7	83.4	area inlet	15	0.4	MINIMUM PIPE SIZES DUE TO STORAGE ON SOCCER FIELDS
Z	0.00	0.47	0.49	0.65	18	17	15	3.51	4.31	7.37	0.0	0.0	0.0	area inlet	15	0.4	MINIMUM PIPE SIZES DUE TO STORAGE ON SOCCER FIELDS
Y	0.00	0.47	0.49	0.65	19	18	15	3.42	4.2	7.37	0.0	0.0	0.0	area inlet			
Z+Y	0.00	0.47	0.49	0.65	19	18	15	3.42	4.2	7.37	0.0	0.0	0.0	area inlet	15	0.4	MINIMUM PIPE SIZES DUE TO STORAGE ON SOCCER FIELDS
X	0.00	0.47	0.49	0.65	19	18	15	3.42	4.2	7.37	0.0	0.0	0.0	area inlet			
Z+Y+X	0.00	0.47	0.49	0.65	19	18	15	3.42	4.2	7.37	0.0	0.0	0.0	area inlet	15	0.4	MINIMUM PIPE SIZES DUE TO STORAGE ON SOCCER FIELDS
W	0.00	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	0.0	0.0	0.0	area inlet			
Z+Y+X+W	0.00	0.51	0.53	0.68	21	20	15	3.25	4	7.37	0.0	0.0	0.0	area inlet	15	0.4	MINIMUM PIPE SIZES DUE TO STORAGE ON SOCCER FIELDS
V	4.80	0.45	0.47	0.64	20	19	15	3.53	4.1	7.37	7.2	9.2	22.6	area inlet			
S+T+U+Z+Y+X+W+V	32.89	0.38	0.40	0.58	42	41	30	2.18	2.72	5.4	27.2	35.8	103.0	area inlet	15	0.4	THROTTLED TO 10 CFS
G	12.90	0.68	0.69	0.80	21	21	18	3.25	4.1	7.37	28.5	36.5	76.1	30'			100 YR, SUMP
S+T+U+Z+Y+X+W+V+G	45.79	0.44	0.46	0.62	45	44	33	2.08	2.61	5.14	41.9	55.0	145.9	area inlet	42	0.8	100 YR FROM AREA D - 10 CFS FROM SOCCER FIELDS
F	5.87	0.68	0.69	0.80	21	19	15	3.25	4.1	7.37	11.1	13.9	34.6	30'			100 YR, SUMP
S+T+U+Z+Y+X+W+V+G+F	51.66	0.46	0.50	0.73	28	27	25	2.70	3.43	6.9	77.2	105.9	222.5	area inlet	48	0.8	100 YR FROM AREA G AND F + 10 CFS FROM SOCCER
H	1.52	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	4.0	4.8	9.0	area inlet	15	1	5 YR, BYPASS
I	1.88	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	4.9	5.9	11.1	area inlet			BYPASS
H+I	3.40	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	8.9	10.7	20.0	area inlet	24	0.4	5 YR
M	2.15	0.68	0.69	0.80	17	17	15	3.61	4.31	7.37	5.3	6.4	12.7	area inlet	18	0.5	5 YR
L	0.72	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	1.9	2.3	4.2	area inlet			BYPASS
M+L	2.87	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	7.5	9.0	16.9	area inlet	24	0.6	5 YR
K	2.18	0.68	0.69	0.80	16	16	15	3.72	4.43	7.37	5.5	6.7	12.9	area inlet			BYPASS

199606104DRAINAGE.WK4

1

Mid-Kansas Engineering Consultants, Inc.

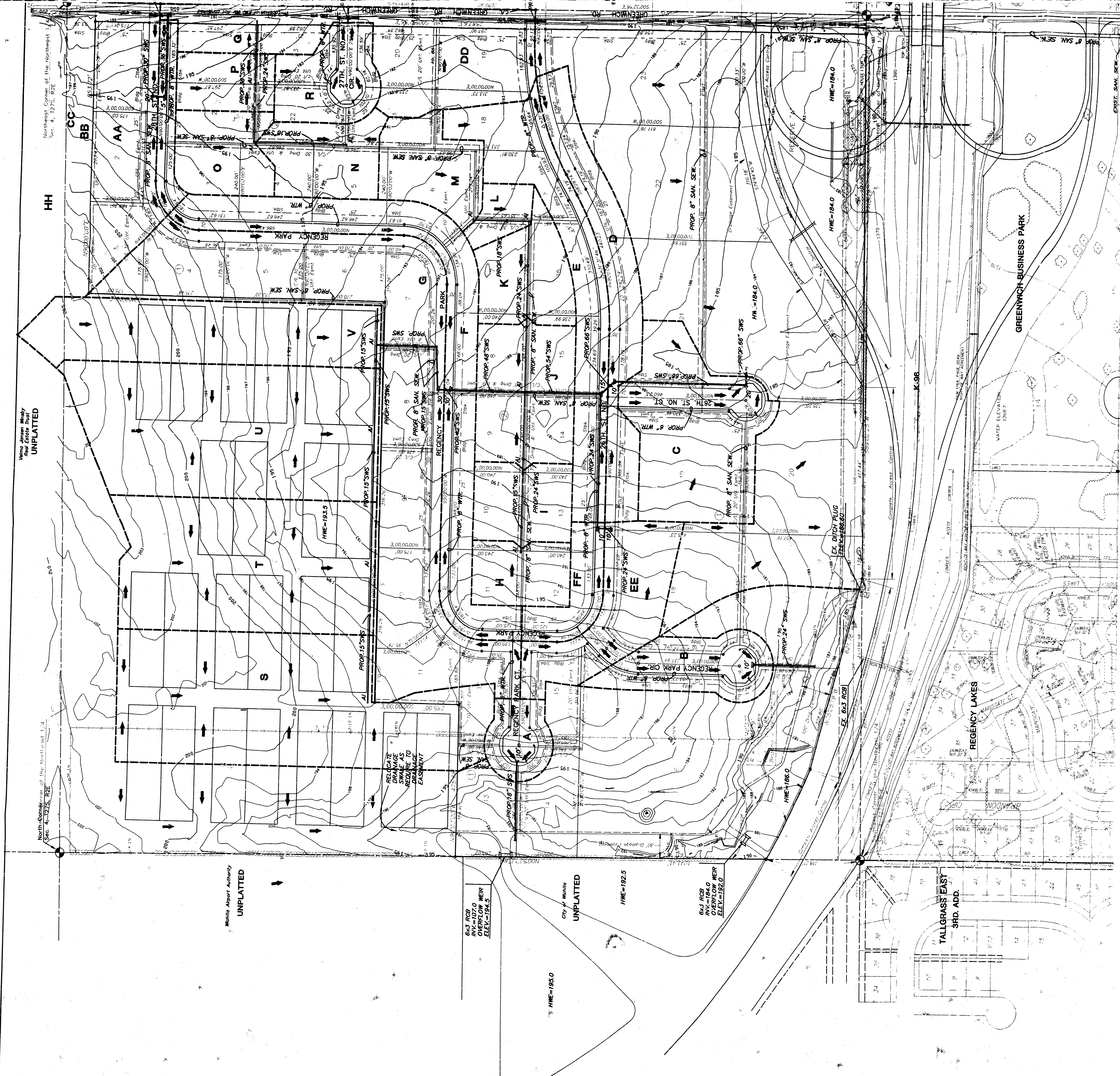
DRAINAGE ANALYSIS SUMMARY
REGENCY PARK ADDITION

Area ID**	Area ac	C2	C5	C100	Tc2 min	Tc5 min	Tc100 min	I2" in/hr	I5 in/hr	I100" in/hr	Q2 cfs	Q5 cfs	Q100 cfs	Size ft	Size in	Min Slope %	COMMENTS
R	2.02	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	5.3	6.4	11.9				
N+O+P+Q+R+AA+GG+HH+BB+CC	35.16	0.68	0.69	0.80	28	27	22	2.78	2.43	6.26	66.5	83.2	176.1				
DO	3.97	0.68	0.69	0.80	21	20	17	3.25	4	7	8.8	11.0	22.2				

199606104DRAINAGE.WK4

3

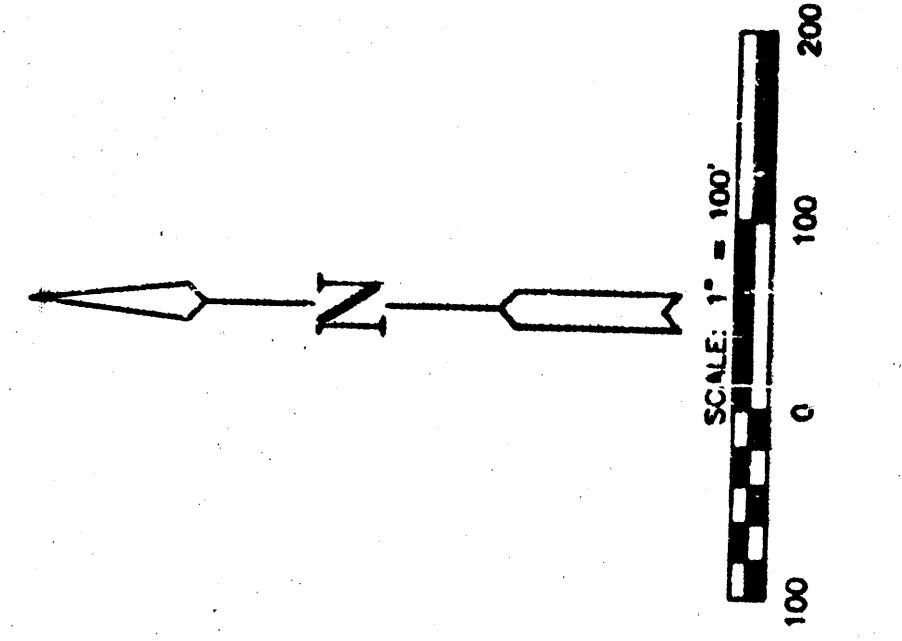
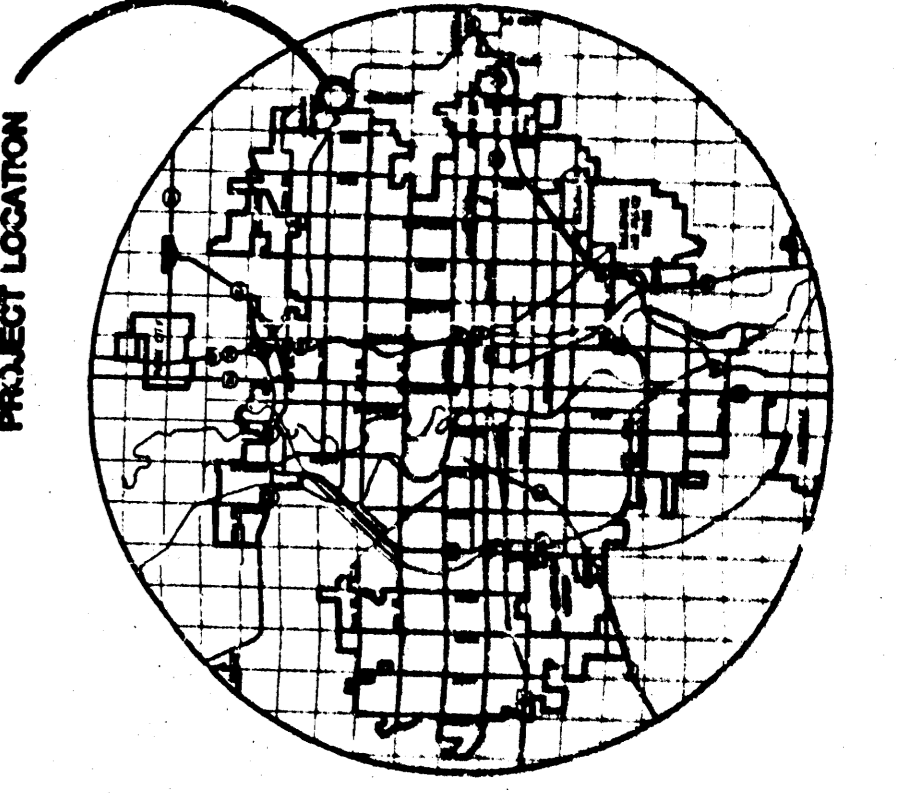
Mid-Kansas Engineering Consultants, Inc.



REGENCY PARK ADDITION
PROPOSED SANITARY SEWER DRAINAGE AND UTILITY PLAN
 SHEET NO. 1
 DATE: 1/17/97
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 PROJECT NO. 1997-01
 CLIENT: [Name]
 ADDRESS: [Address]
 CITY: [City]
 STATE: [State]
 ZIP: [ZIP]

Note: Each lot shall be responsible for Detention of the 100 year-2 hour storm.

Lot	Area (Sq. Ft.)	Prop. Det. (Cubic Feet)	Prop. Det. (Cubic Feet)
1	1000	1000	1000
2	1000	1000	1000
3	1000	1000	1000
4	1000	1000	1000
5	1000	1000	1000
6	1000	1000	1000
7	1000	1000	1000
8	1000	1000	1000
9	1000	1000	1000
10	1000	1000	1000
11	1000	1000	1000
12	1000	1000	1000
13	1000	1000	1000
14	1000	1000	1000
15	1000	1000	1000
16	1000	1000	1000
17	1000	1000	1000
18	1000	1000	1000
19	1000	1000	1000
20	1000	1000	1000
21	1000	1000	1000
22	1000	1000	1000
23	1000	1000	1000
24	1000	1000	1000
25	1000	1000	1000



PREPARED FEB. 1997
 BY MKC
 SURVEYED JAN. 1997
 EXISTING AGRICULTURAL ZONING - L-1
 PROPOSED ZONING - L-1
 MINIMUM PADS AS INDICATED ON DRAINAGE PLAN
 OWNER: [Name]
 ENGINEER: [Name]
 8100 E. 22ND ST., BLDG 1000
 WICHITA, KANSAS 67226

BENCHMARKS
 BM#1 2nd St. in West side of 1st. pole North of 29th. St. on East side of Greenwich Rd. Elev=267.51
 BM#2 2nd St. in West side of 1st. pole North of K-96 on East side of Greenwich Rd. Elev=192.04
 BM#3 2nd St. in West side of 1st. pole North of K-96 on East side of Greenwich Rd. Elev=194.43

Northwest Corner of the Northeast 1/4 Sec. 4, T27S, R2E

North Corner of the Northeast 1/4 Sec. 4, T27S, R2E

Wichita State University
 Road Construction
 UNPLATTED

Wichita Airport Authority
 UNPLATTED

City of Wichita
 UNPLATTED

TALLGRASS EAST
 3RD. ADD.

REGENCY LAKES

GREENWICH BUSINESS PARK

6x3 RCB
 INV.=107.0
 OVERFLOW WEIR
 ELEV.=194.5

HME=192.5

6x3 RCB
 INV.=184.0
 OVERFLOW WEIR
 ELEV.=192.0

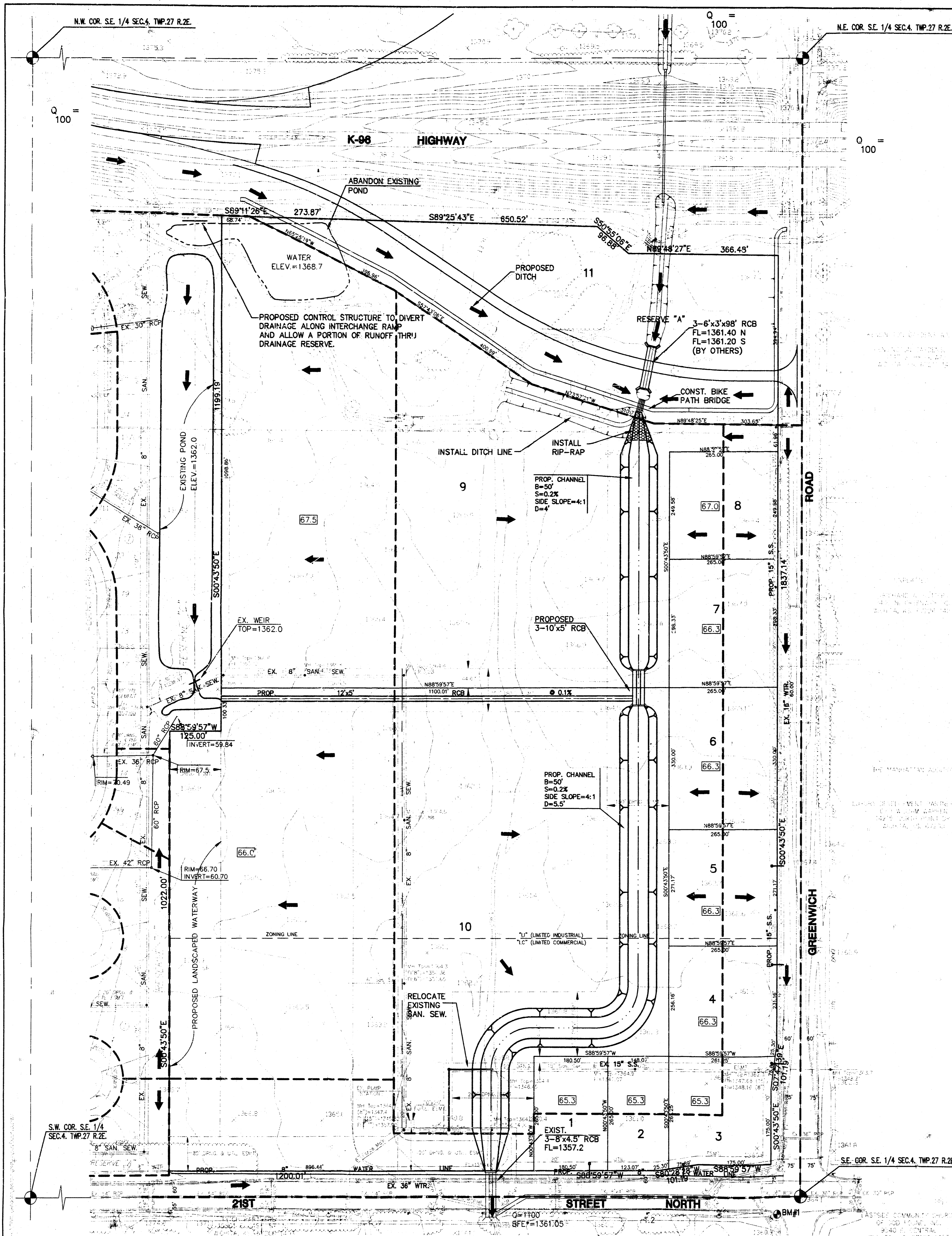
HME=195.0

HME=186.0

HME=184.0

HME=184.0

HME=184.0



NOTES

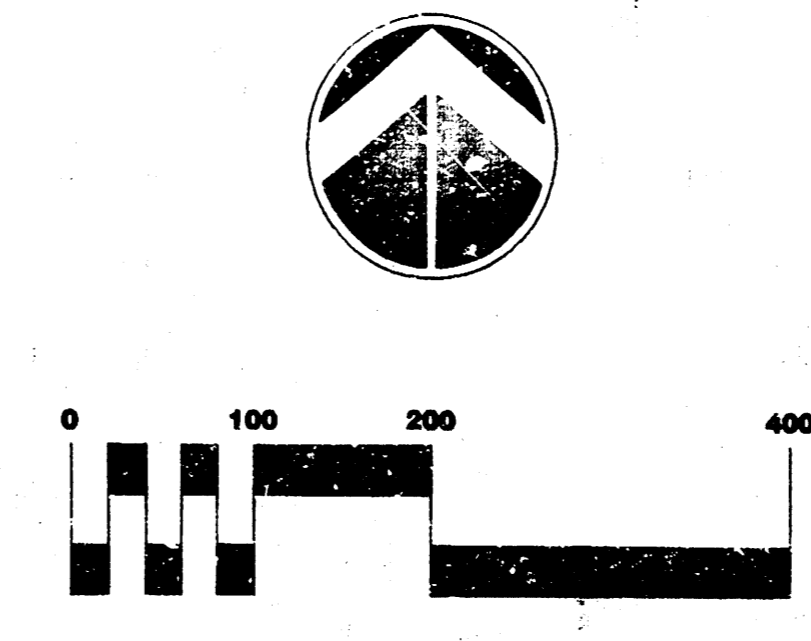
1. ZONING: LIMITED INDUSTRIAL - LI
LIMITED COMMERCIAL - LC
2. LOT MINIMUM PADS AS INDICATED ON DRAINAGE PLAN.
3. RESERVE A IS FOR HIGHWAY, LANDSCAPING, OPEN SPACE DEDICATED TO THE PUBLIC.

BENCHMARK

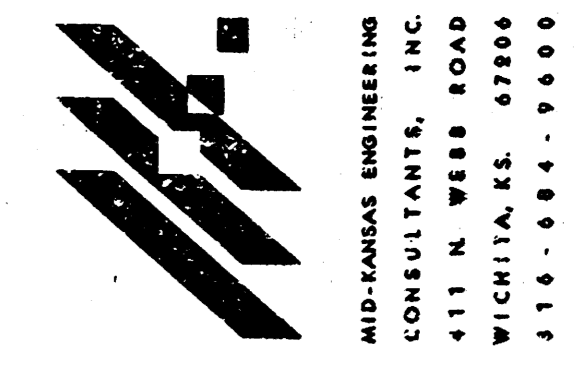
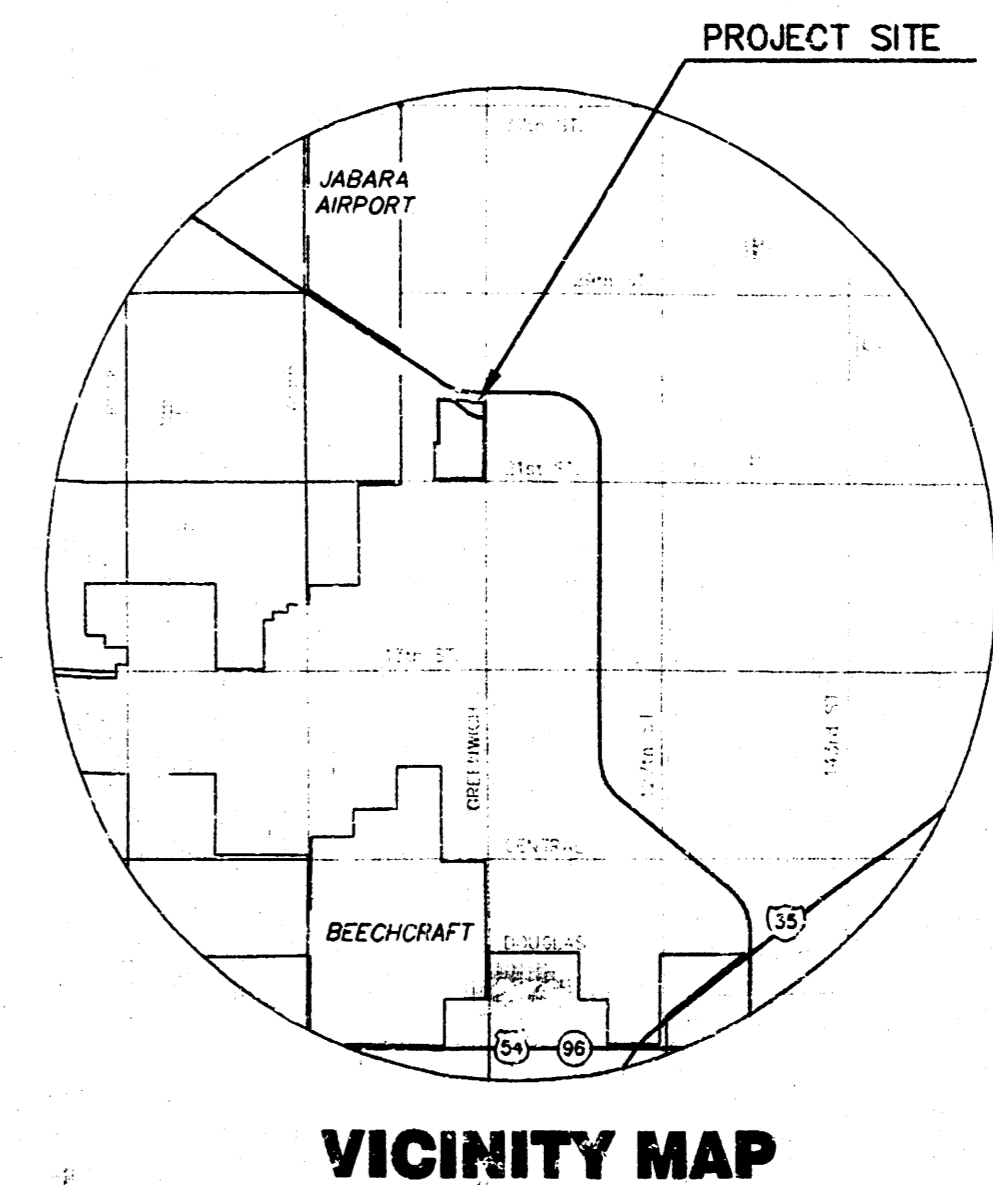
BM#1
GREENWICH AND 21ST ST. N. COR. 41' SOUTH AND 58' WEST OF
IRON CTR. LINE BOTH. 17.0' SW OF ASPHALT, 14.2' EAST OF
FACE P.P. 17.0' WEST OF FACE P.P.
ELEV. = 173.98

LEGEND

- 66.3 = MINIMUM PAD
- = FLOW ARROW
- = DRAINAGE DIVIDES



SURVEY BY - WESTERN AIR
MAP DATE - JUNE 1996



DRAINAGE & UTILITY PLAN
REGENCY LAKES COMMERCIAL

OWNERS: REGENCY LAKES L.C. % RITCHE DEVELOPMENT 8100 E. 22ND ST. WICHITA, KS. 67226 664-7300
 DEVELOPER: GREENWICH 21 LLC % GEORGE LAHAM 150 N. MARKET WICHITA, KANSAS 67201 262-6400

IN VICTA, URBAN DESIGN BRIDGING DIM