

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	16	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 Qdesign=113.8+10.4+15.4+10.7+150.3	
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	3.83	4.56	7.37	11.4	13.7	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, B - ASS	
S+T+U+Z+Y+X+W+V+G+F+H+I+M+L+K+J+EE+FF+E	73.62	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 Qdesign=150.3+14.1+10.2+174.6	
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 Qdesign=174.9+9.8+104.4	
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	
S+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 Qdesign=164.4+15.7+200.1	
AA	3.67	0.68	0.69	0.80	15	15	15	3.83	4.56	7.37	9.6	11.5	21.8	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	0.69	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	26.01	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	5.26	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 AREA 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			

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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	8.6	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		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		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		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		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		15	0.4	MINIMUM PIPE SIZES DUE TO STORAGE ON SOCCER FIELDS
V	4.80	0.45	0.47	0.64	20	19	15	3.33	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		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		42	0.8	100 YR FROM AREA D - 10 CFS FROM SOCCER FIELDS Qdesign = 76.1+10+66.1
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	2.78	3.43	5.9	77.2	105.9	222.5		48	0.8	100 YR FROM AREA G AND F - 10 CFS FROM SOCCER Qdesign = 85.1+34.9+120.7
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		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		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

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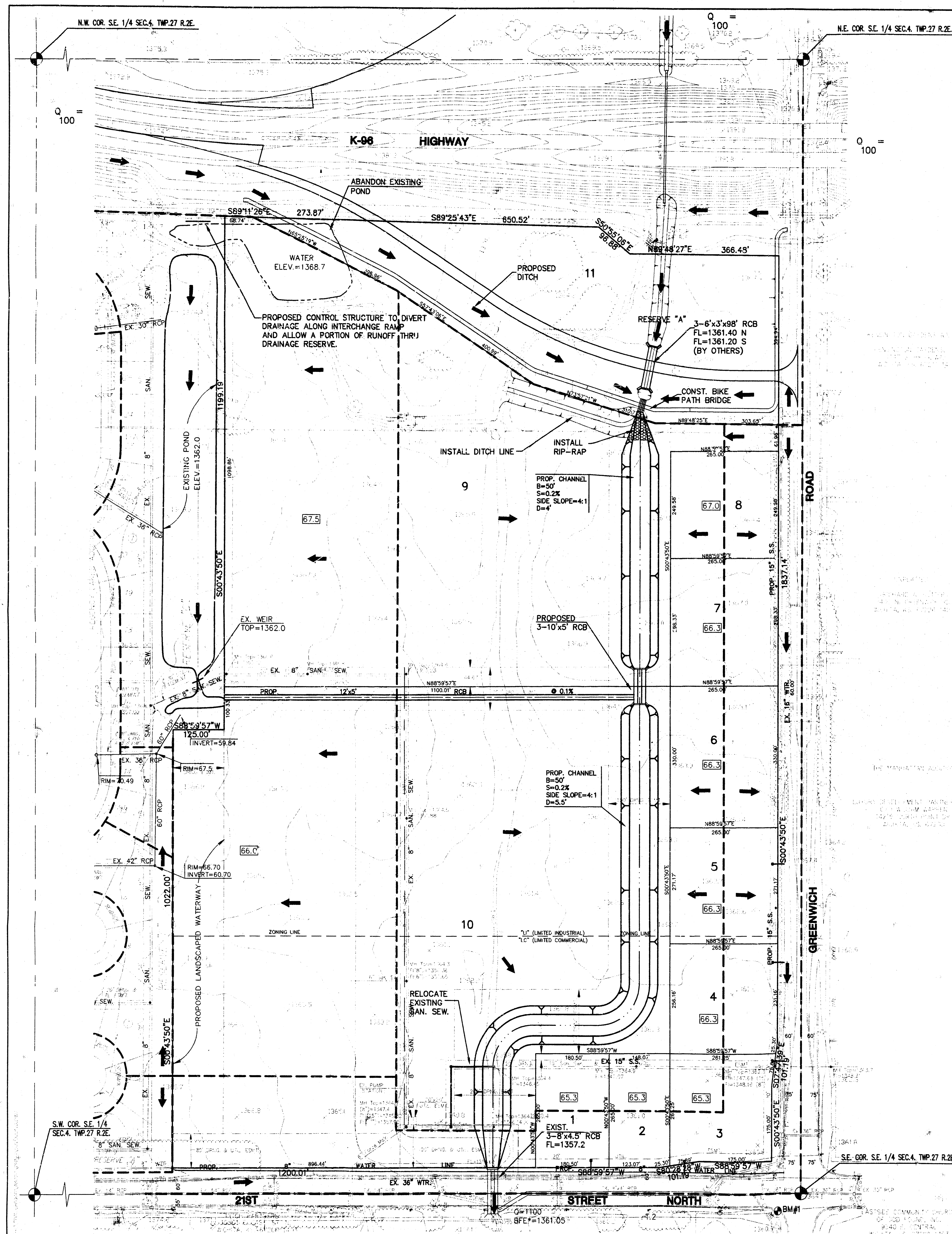
DRAINAGE ANALYSIS SUMMARY
REGENCY PARK ADDITION

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	3.43	6.26	66.5	83.2	176.1		54	1	100 YR
DD	3.97	0.68	0.69	0.80	21	20	17	3.25	4	7	8.8	11.0	22.2				

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NOTES

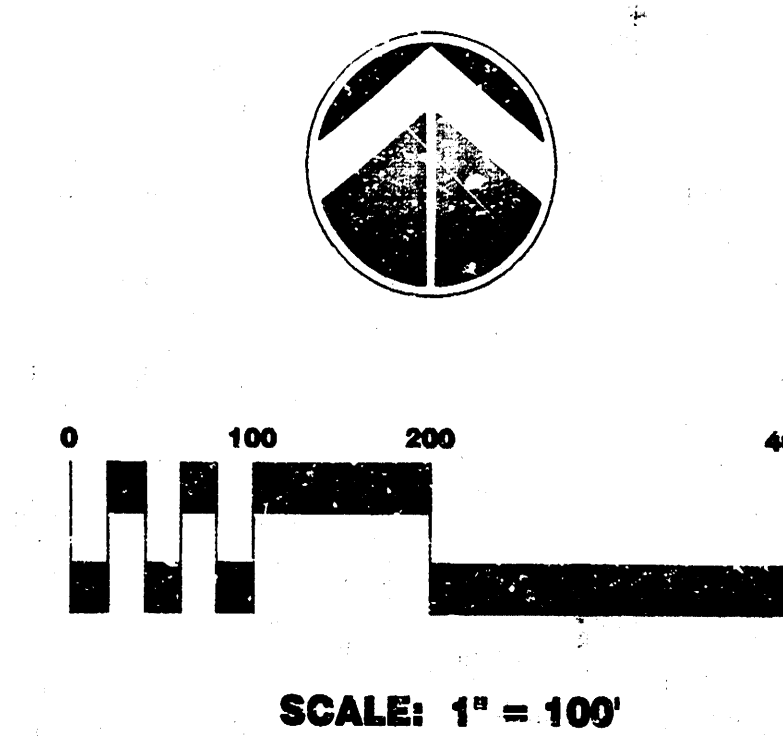
1. ZONING: LIMITED INDUSTRIAL - LI
LIMITED COMMERCIAL - LC
2. LOT MINIMUM PADS AS INDICATED ON DRAINAGE PLAN.
3. RESERVE A IS FOR HIGHWAY, LANDSCAPING, OPEN SPACE DEDICATED TO THE PUBLIC.

BENCHMARK

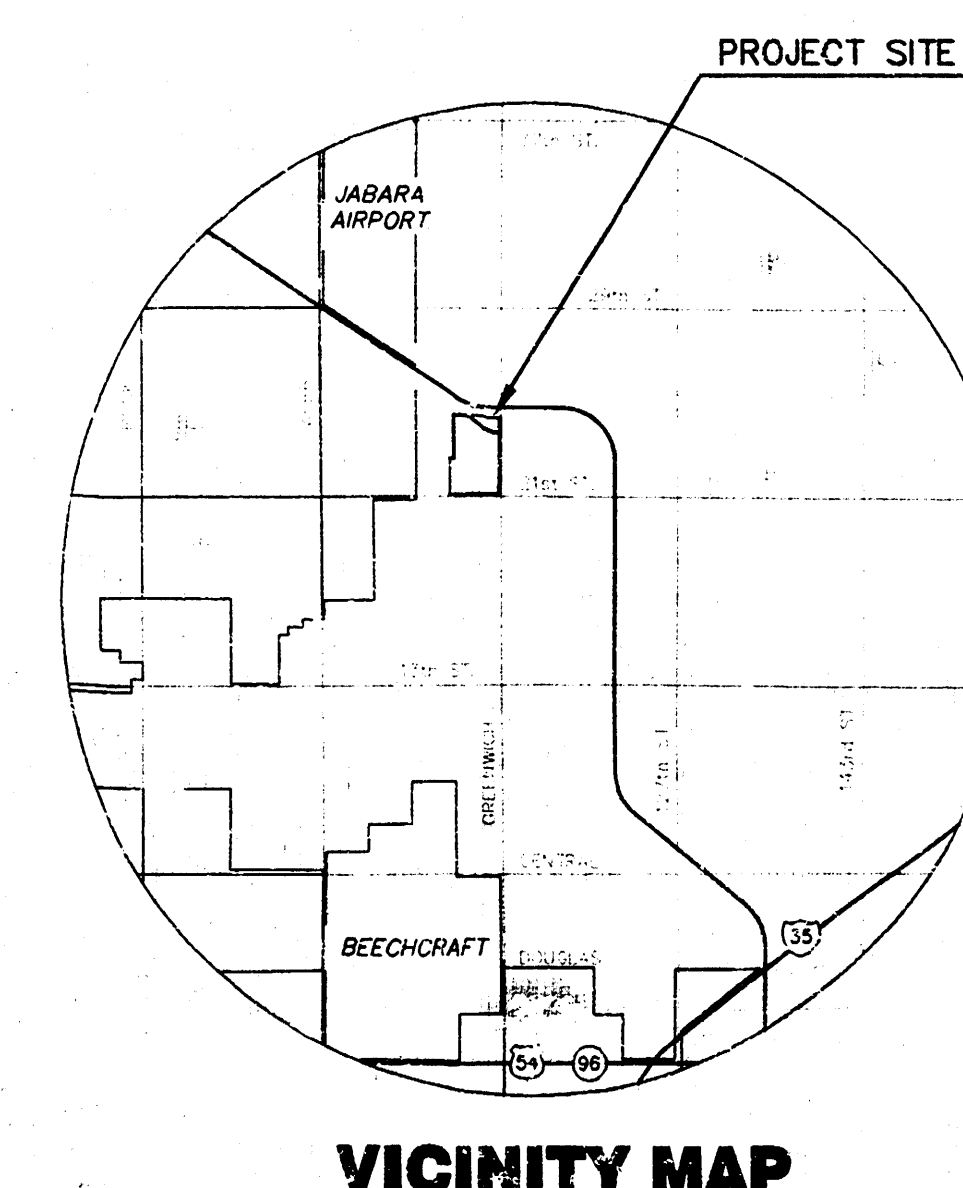
BM#1
GREENWICH AND 21ST ST. N. COR. 41' SOUTH AND 58' WEST OF
IRON CTR. LINE BOTH. 17.0' SW OF ASPHALT, 14.2' EAST OF
FACE P.P. 17.0' WEST OF FACE P.P.
ELEV. = 173.98

LEGEND

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



SURVEY BY - WESTERN AIR
MAP DATE - JUNE 1996



VICINITY MAP

DRAINAGE & UTILITY PLAN

REGENCY LAKES COMMERCIAL



OWNERS: REGENCY LAKES L.C. 2% RITCHIE DEVELOPMENT 8100 E. 22ND ST. NORTH, BLDG. 1002 WICHITA, KS. 67226 684-7300
DEVELOPER: GREENWICH 21 LLC 2% GEORGE LAHAM 150 N. MARKET WICHITA, KANSAS 67201 282-6400