

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				

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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	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

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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				

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