

Fully Developed Drainage Area Calculations						
Drainage Area Designation	Acreage (ac)	C Factor	C x A	Time of Concentration (min)	I (in/hr)	Q (cfs)
					100 Yr	100 Yr
A-1	0.28	0.90	0.25	10	9.80	2.47
A-2	0.31	0.90	0.28	10	9.80	2.73
A-3	0.45	0.90	0.41	10	9.80	3.97
A-4	0.49	0.90	0.44	10	9.80	4.32
A-5	0.46	0.90	0.41	10	9.80	4.06
A-6	0.47	0.90	0.42	10	9.80	4.15
A-7	0.63	0.90	0.57	10	9.80	5.56
A-8	0.67	0.90	0.60	10	9.80	5.91
A-9	0.46	0.90	0.41	10	9.80	4.06
A-10	0.42	0.90	0.38	10	9.80	3.70
A-11	0.52	0.90	0.47	10	9.80	4.59
A-12	0.50	0.90	0.45	10	9.80	4.41
B-1	0.44	0.90	0.40	10	9.80	3.88
B-2	0.44	0.90	0.40	10	9.80	3.88
B-3	0.44	0.90	0.40	10	9.80	3.88
B-4	0.44	0.90	0.40	10	9.80	3.88
B-5	0.44	0.90	0.40	10	9.80	3.88
B-6	0.44	0.90	0.40	10	9.80	3.88
C-1	0.64	0.90	0.58	10	9.80	5.64
C-2	0.58	0.90	0.52	10	9.80	5.12
C-3	0.65	0.90	0.59	10	9.80	5.73
C-4	0.72	0.90	0.65	10	9.80	6.35
C-5	0.72	0.90	0.65	10	9.80	6.35
C-6	0.72	0.90	0.65	10	9.80	6.35
C-7	0.62	0.90	0.56	10	9.80	5.47
C-8	0.62	0.90	0.56	10	9.80	5.47
C-9	0.58	0.90	0.52	10	9.80	5.12
C-10	0.56	0.90	0.50	10	9.80	4.94
D-1	0.66	0.90	0.59	10	9.80	5.82
D-2	0.63	0.90	0.57	10	9.80	5.56
D-3	0.53	0.90	0.48	10	9.80	4.67
D-4	0.51	0.90	0.46	10	9.80	4.50
E-1	0.44	0.90	0.40	10	9.80	3.88
E-2	1.05	0.90	0.95	10	9.80	9.26
F-1	2.91	0.90	2.62	10	9.80	25.67
F-2	5.39	0.90	4.85	10	9.80	47.54
G-1	2.99	0.90	2.69	10	9.80	26.37
H-1	10.41	0.90	9.37	10	9.80	91.82
H-2	7.40	0.90	6.66	10	9.80	65.27
H-3	5.16	0.90	4.64	10	9.80	45.51
H-4	5.53	0.90	4.98	10	9.80	48.77
I-1	0.79	0.90	0.71	10	9.80	6.97
I-2	0.74	0.90	0.67	10	9.80	6.53
J-1	9.41	0.90	8.47	10	9.80	83.00
J-2	5.63	0.90	5.07	10	9.80	49.66
K-1	8.02	0.90	7.22	10	9.80	70.74
K-2	2.33	0.90	2.10	10	9.80	20.55
M-1	0.19	0.90	0.17	10	9.80	1.68
N-1	0.09	0.90	0.08	10	9.80	0.79
N-2	0.41	0.90	0.37	10	9.80	3.62
P-1	0.38	0.90	0.34	10	9.80	3.35
P-2	1.02	0.90	0.92	10	9.80	9.00
S-1*	4.65	0.90	4.19	10	9.80	41.01
S-2	1.06	0.90	0.95	10	9.80	9.35

Notes: \* THE ASSUMPTION IS MADE THAT IN FUTURE DEVELOPMENT, AREA S-1 WILL BE DETAINED TO EXISTING CONDITIONS.

Existing Condition Drainage Area Calculations for Areas Contributing to the North						
Drainage Area Designation	Acreage (ac)	C Factor	C x A	Time of Concentration (min)	Rainfall Intensity, I (in/hr)	Runoff, Q (cfs)
					100 Yr	100 Yr
B-1	0.44	0.35	0.15	20	8.3	1.50
B-2	0.44	0.35	0.15	20	8.3	1.28
B-3	0.44	0.35	0.15	20	8.3	1.28
B-4	0.44	0.35	0.15	20	8.3	1.28
B-5	0.44	0.35	0.15	20	8.3	1.28
B-6	0.44	0.35	0.15	20	8.3	1.28
K-1	8.02	0.35	2.81	20	8.3	23.30
K-2	2.33	0.35	0.82	20	8.3	6.77
M-1	0.19	0.35	0.07	20	8.3	0.55
N-1	0.09	0.35	0.03	20	8.3	0.26
N-2	0.41	0.35	0.14	20	8.3	1.19
P-1	0.38	0.35	0.13	20	8.3	1.10
P-2	1.02	0.35	0.36	20	8.3	2.96

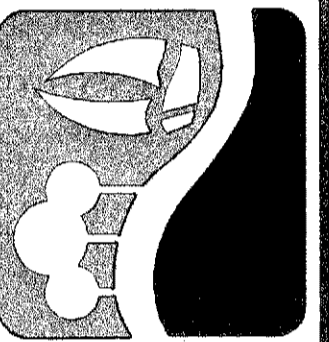
TOTAL EXISTING CONDITION Q<sub>100</sub> = 44.03

Existing Condition Drainage Area Calculations for Areas Contributing to the South						
Drainage Area Designation	Acreage (ac)	C Factor	C x A	Time of Concentration (min)	Rainfall Intensity, I (in/hr)	Runoff, Q (cfs)
					100 Yr	100 Yr
D-1	0.66	0.35	0.23	20	8.3	1.92
D-2	0.63	0.35	0.22	20	8.3	1.83
D-3	0.53	0.35	0.19	20	8.3	1.54
D-4	0.51	0.35	0.18	20	8.3	1.48
E-1	0.44	0.35	0.15	20	8.3	1.28
E-2	1.05	0.35	0.37	20	8.3	3.05
I-1	0.79	0.35	0.28	20	8.3	2.29
I-2	0.74	0.35	0.26	20	8.3	2.15
J-1	9.41	0.35	3.29	20	8.3	27.34
J-2	5.63	0.35	1.97	20	8.3	16.36

TOTAL EXISTING CONDITION Q<sub>100</sub> = 59.23

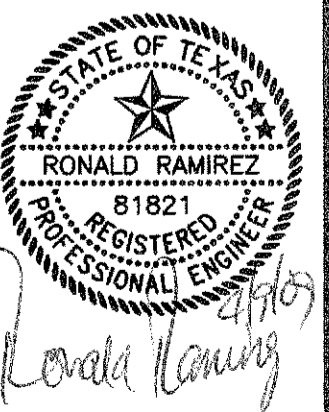
Existing Condition Drainage Area Calculations for Off-Site Areas Contributing to Storm Drain Line 'R'						
Drainage Area Designation	Acreage (ac)	C Factor	C x A	Time of Concentration (min)	Rainfall Intensity, I (in/hr)	Runoff, Q (cfs)
					100 Yr	100 Yr
S-1*	4.65	0.35	1.63	20	8.3	13.51
S-2	1.06	0.35	0.37	20	8.3	3.08

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**ROCKWALL TECHNOLOGY PARK PHASE III**

**DRAINAGE AREA CALCULATIONS**



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