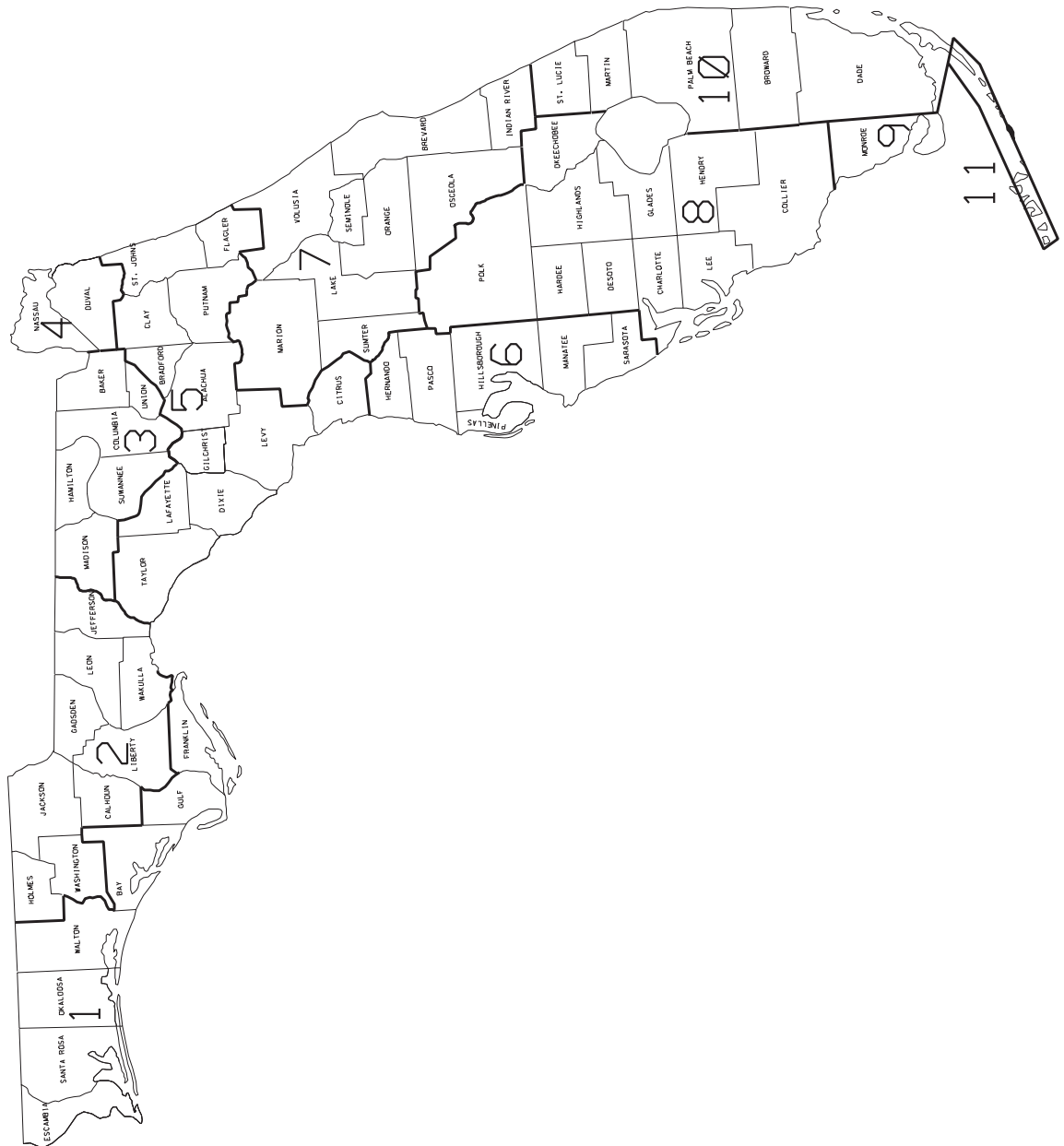
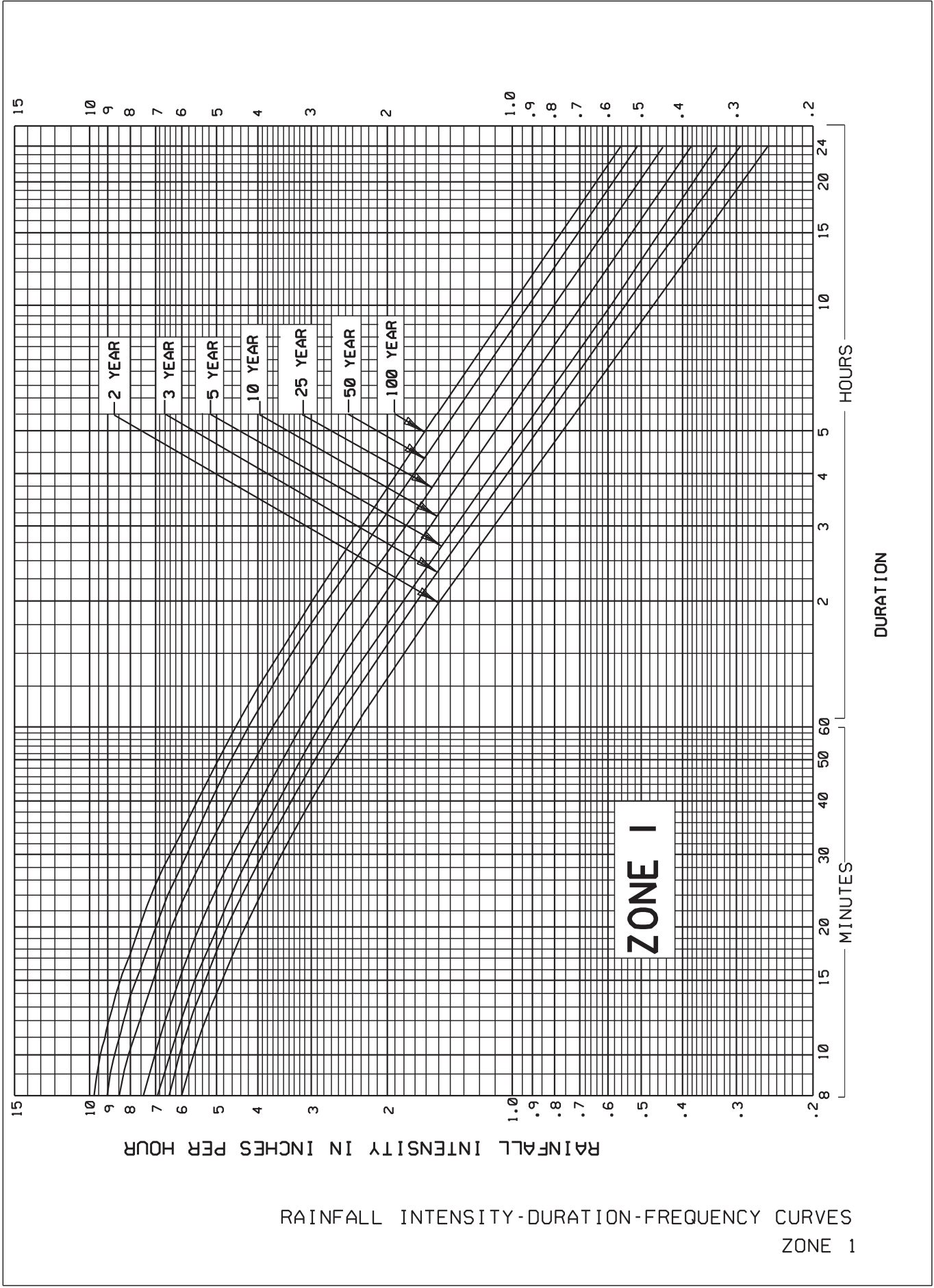
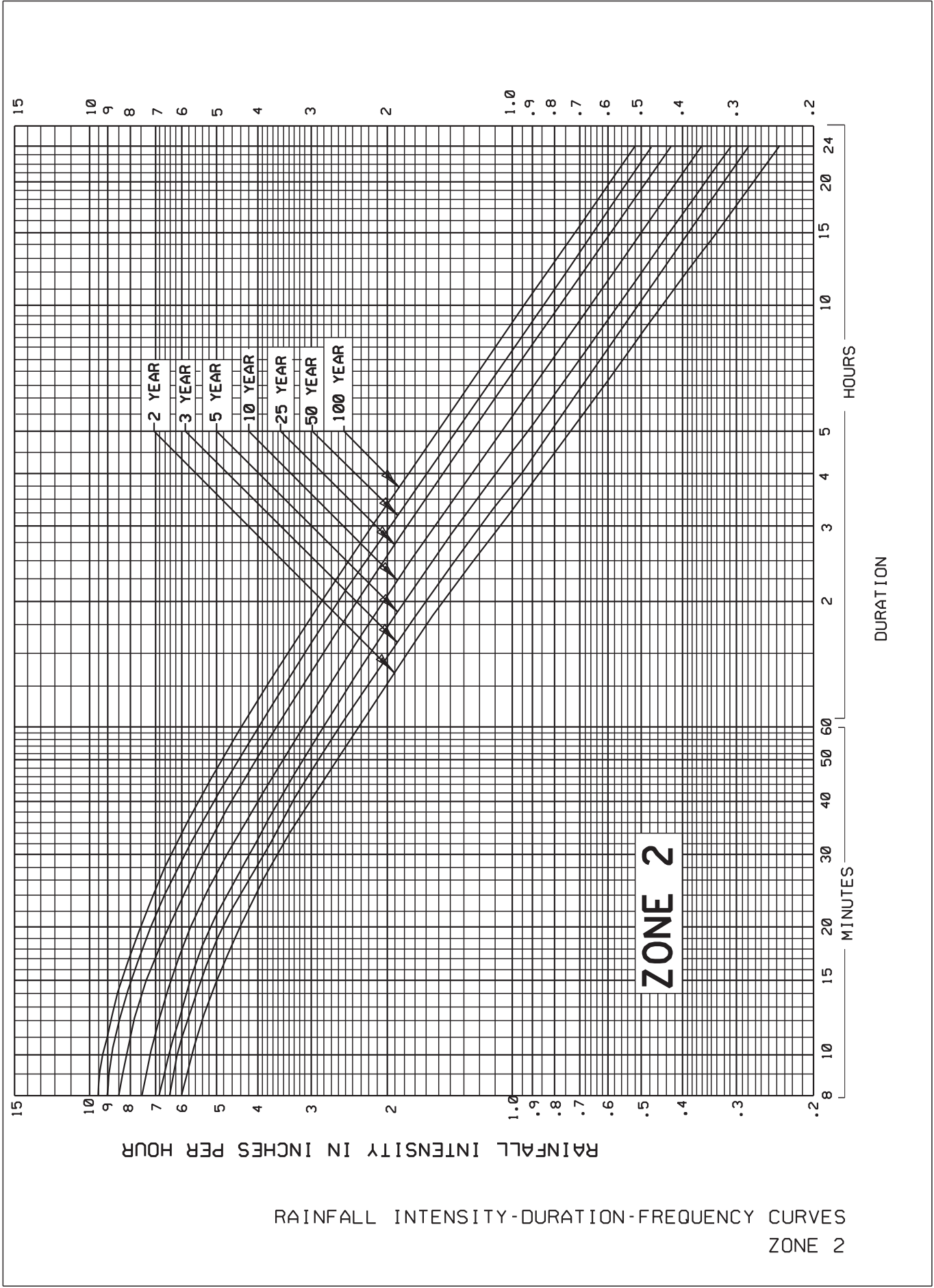


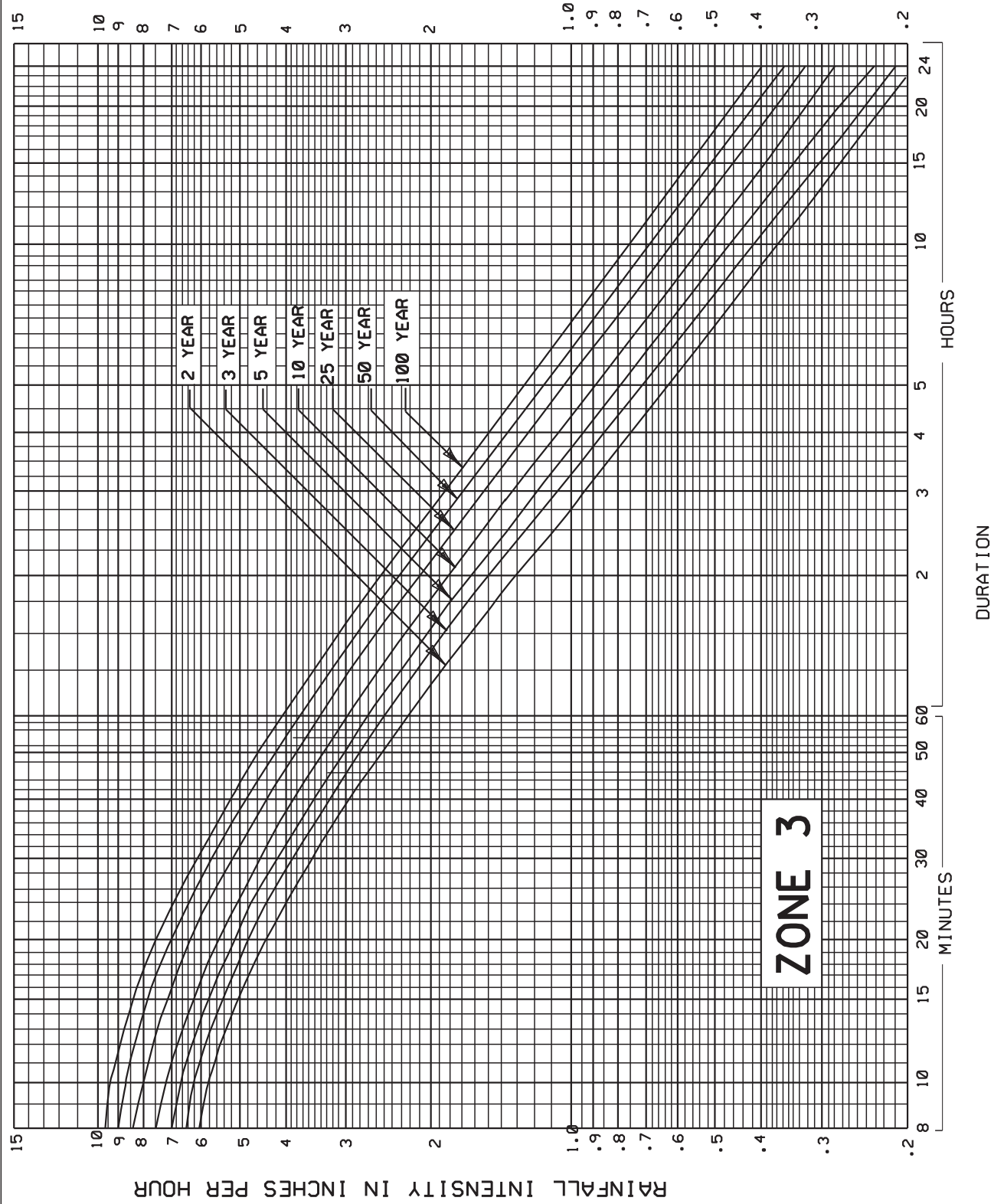
Drainage Manual IDF Curves

ZONES FOR PRECIPITATION IDF CURVES DEVELOPED BY THE DEPARTMENT



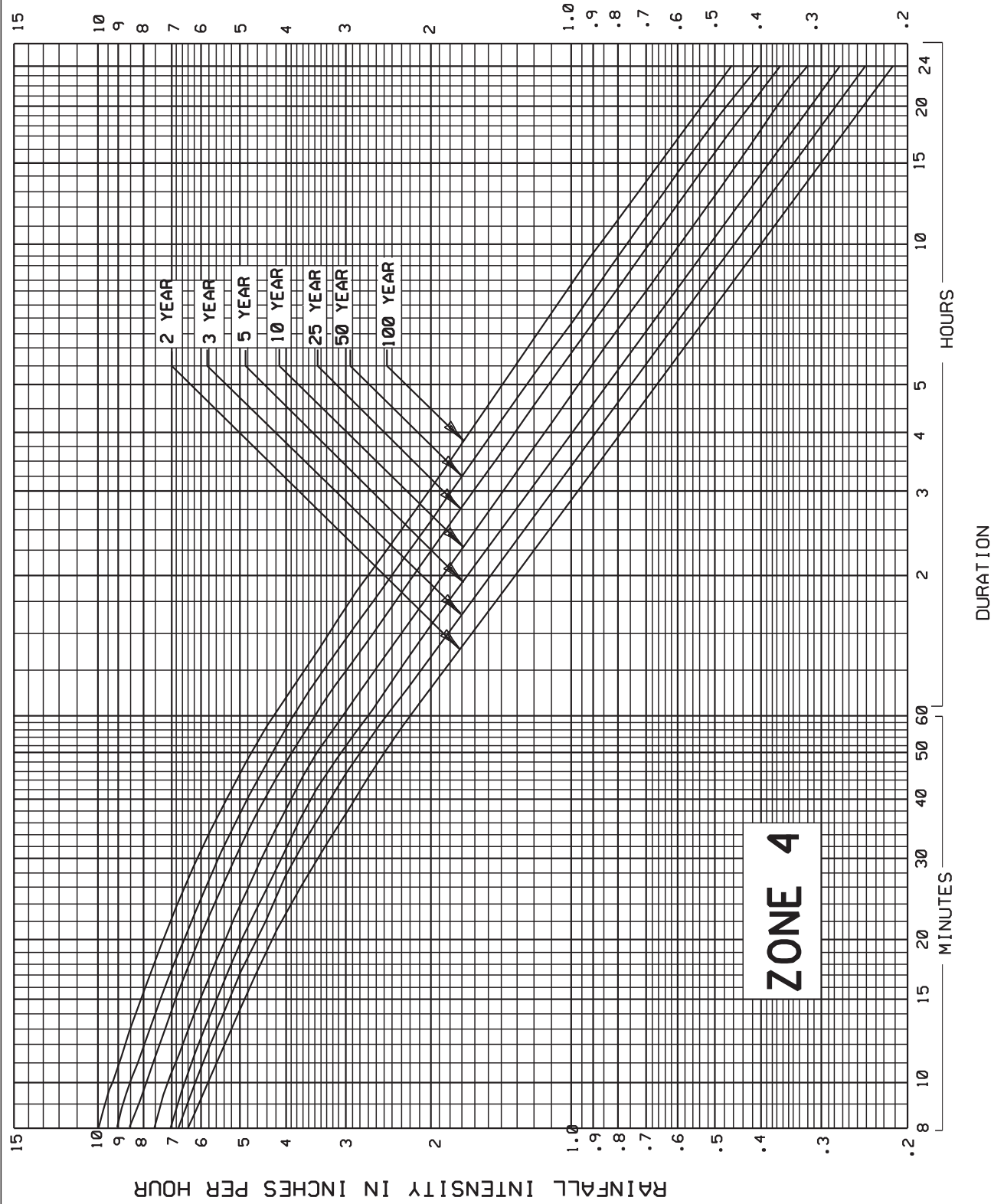




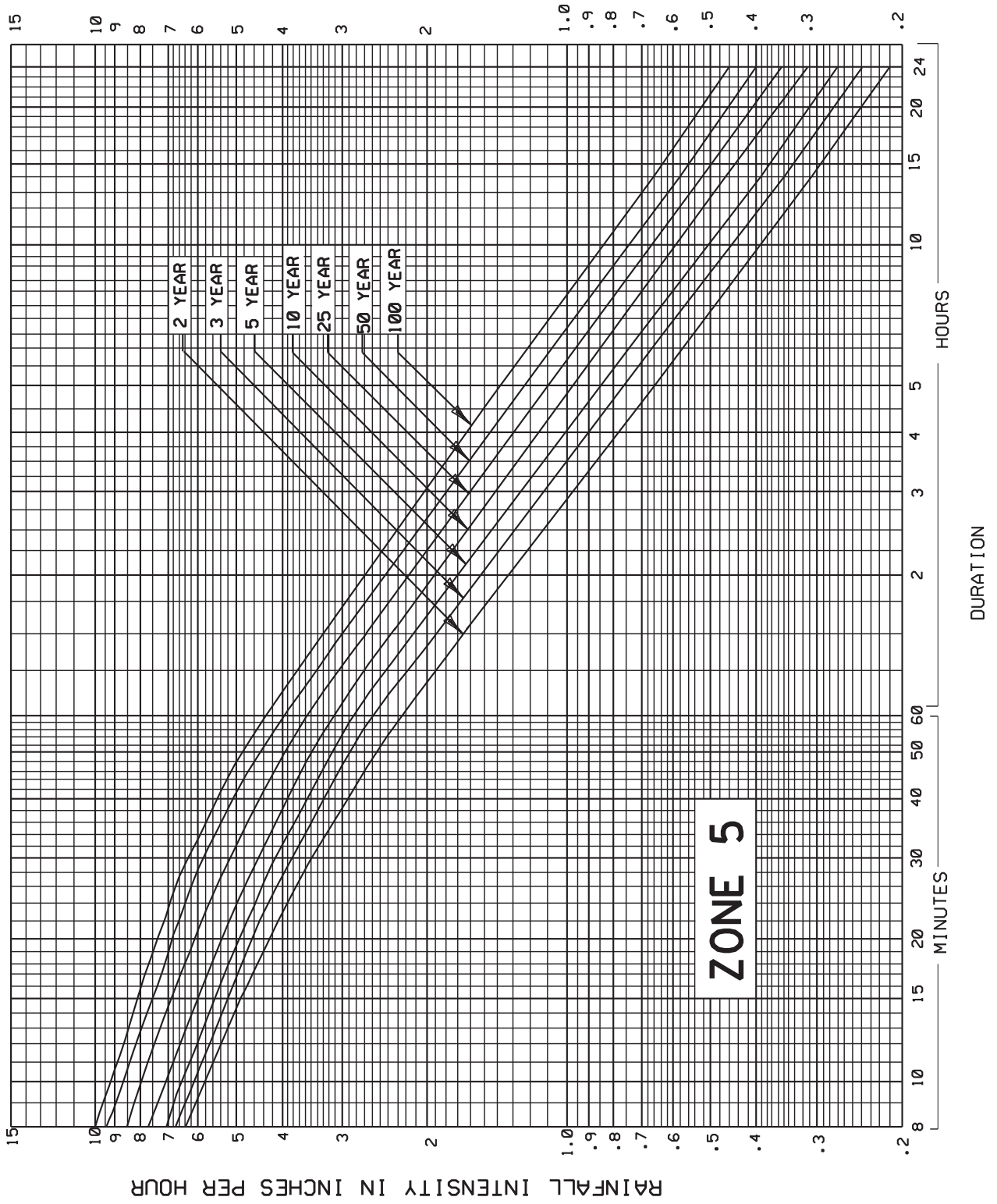


RAINFALL INTENSITY-DURATION-FREQUENCY CURVES
ZONE 3

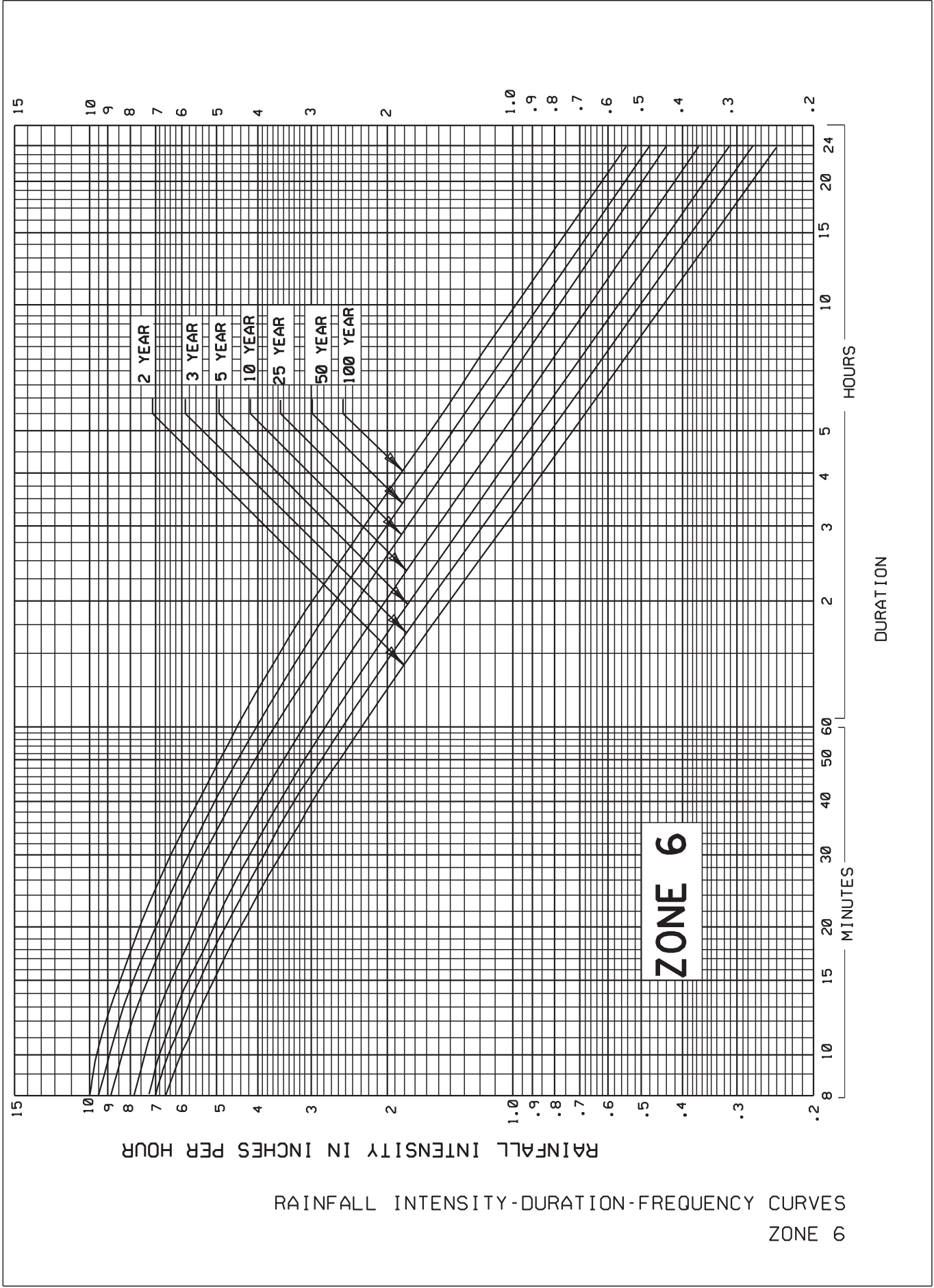
Drainage Manual
IDF Curves

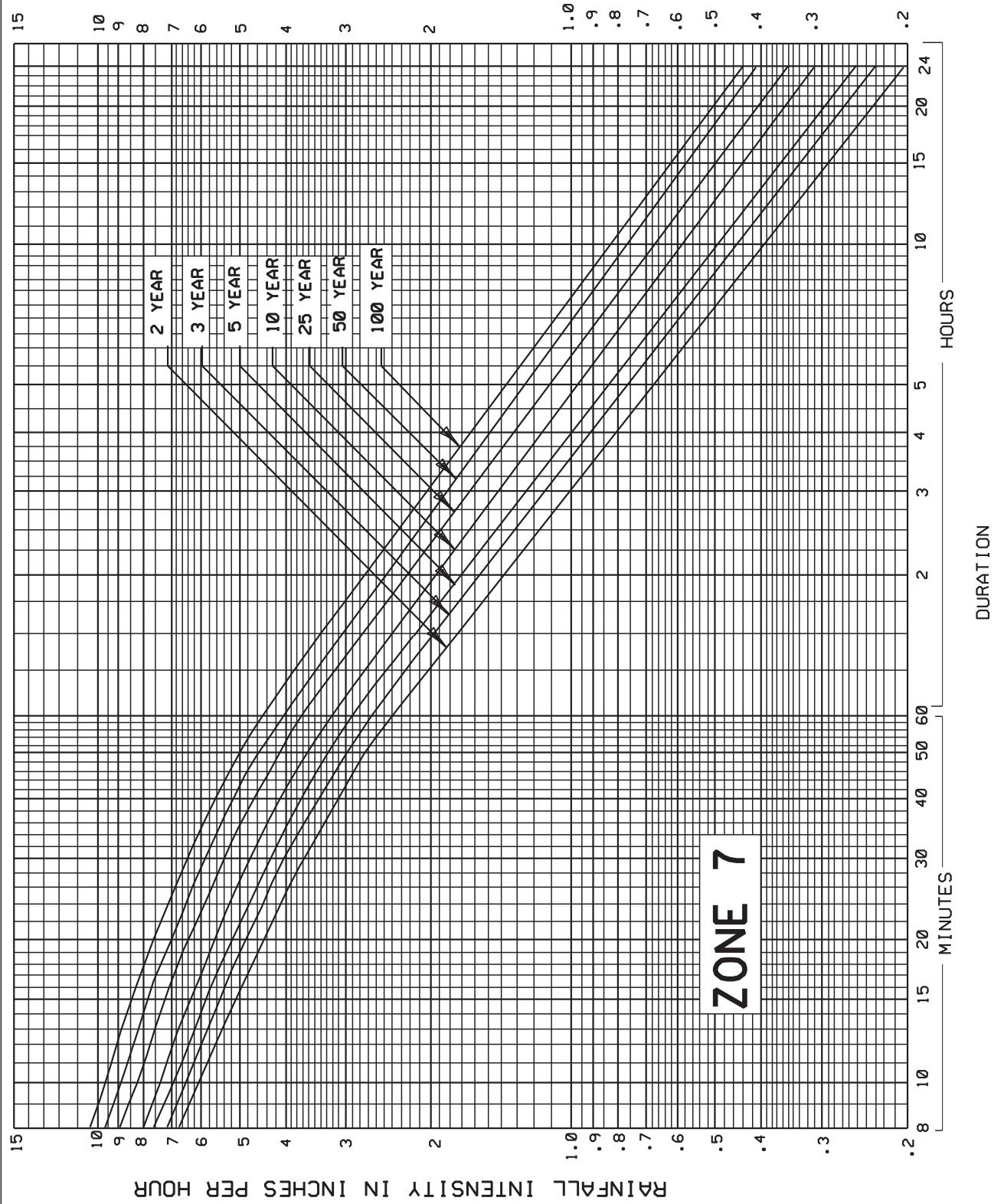


RAINFALL INTENSITY-DURATION-FREQUENCY CURVES
ZONE 4



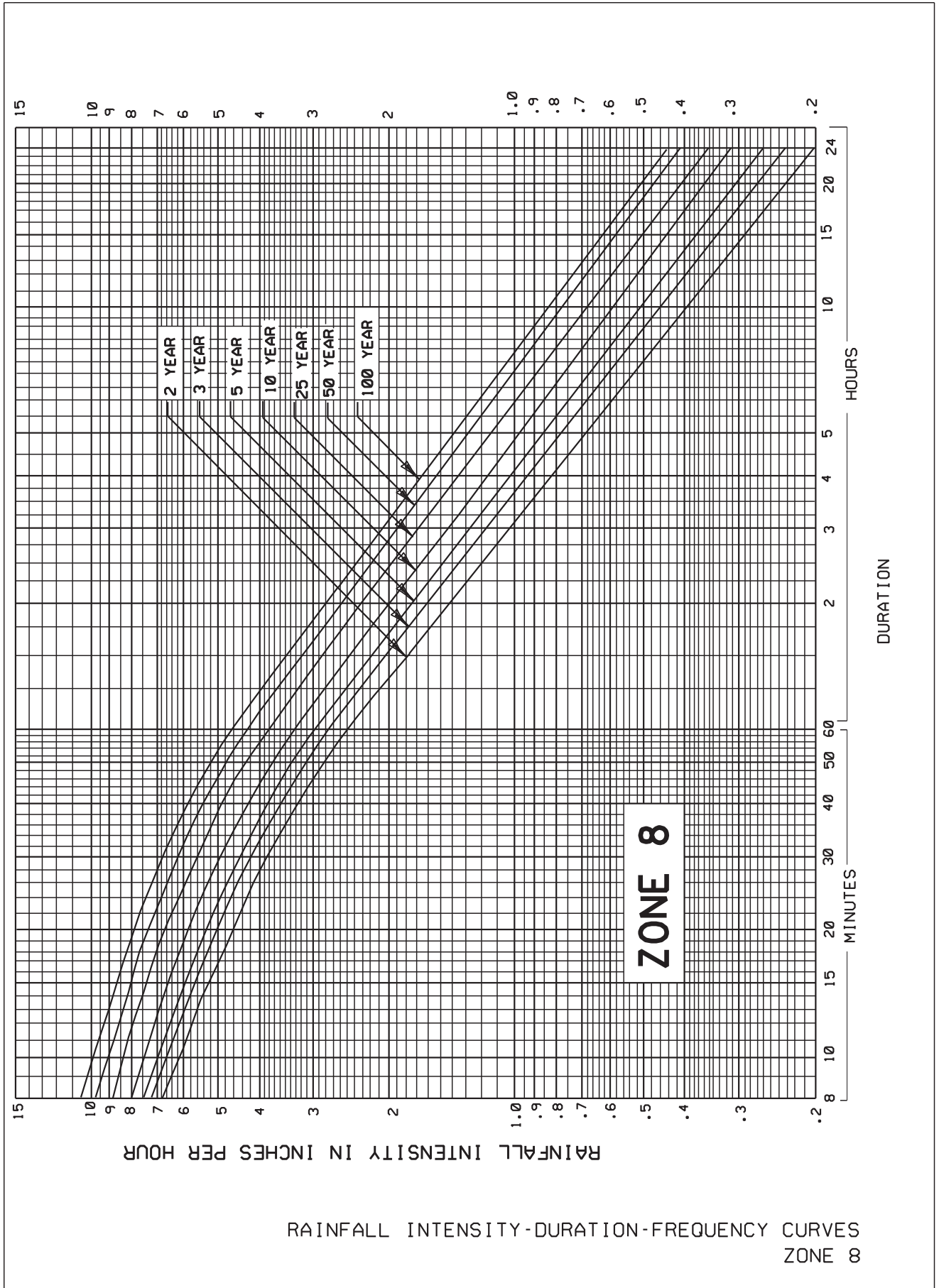
RAINFALL INTENSITY-DURATION-FREQUENCY CURVES
ZONE 5

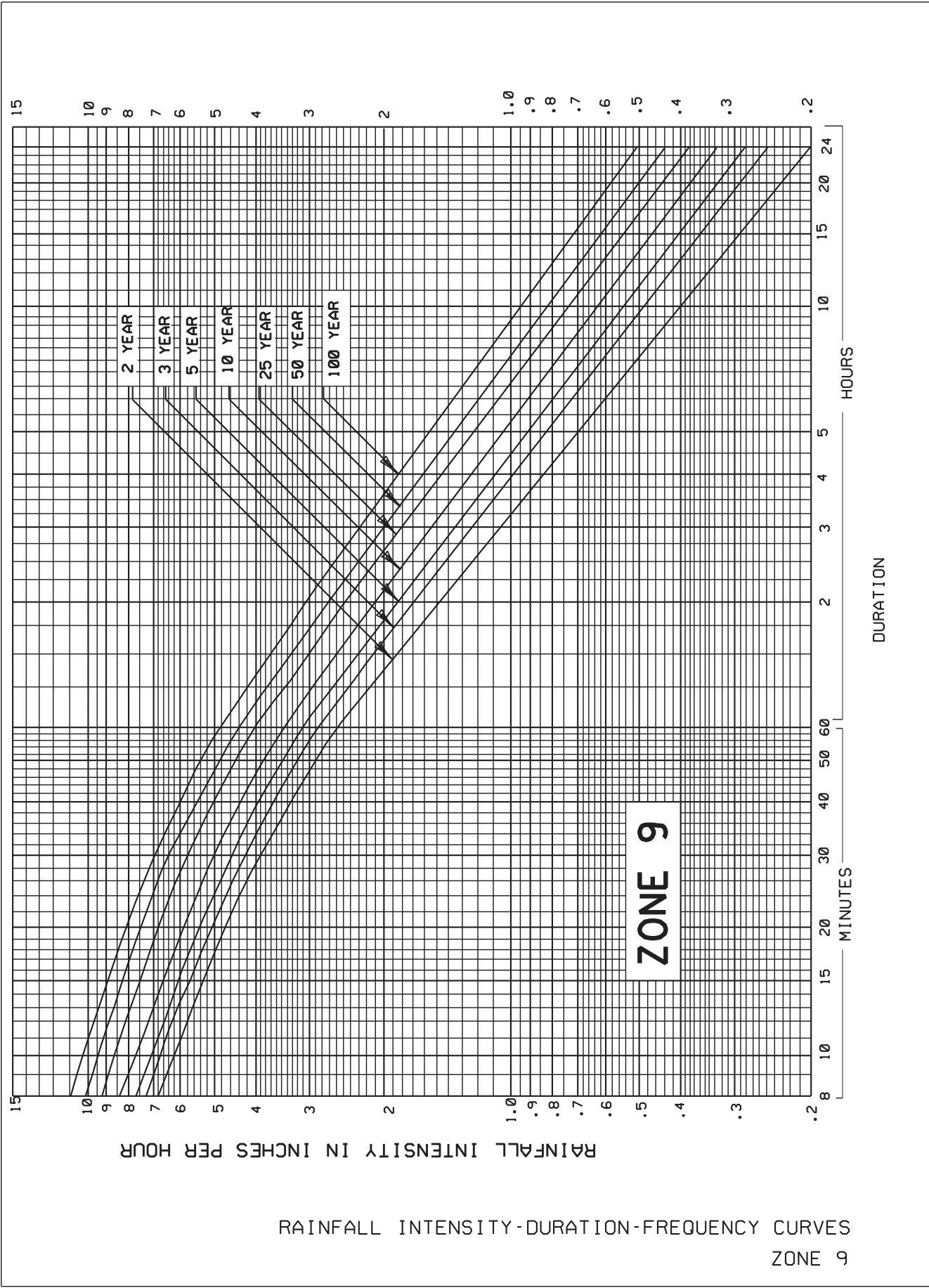




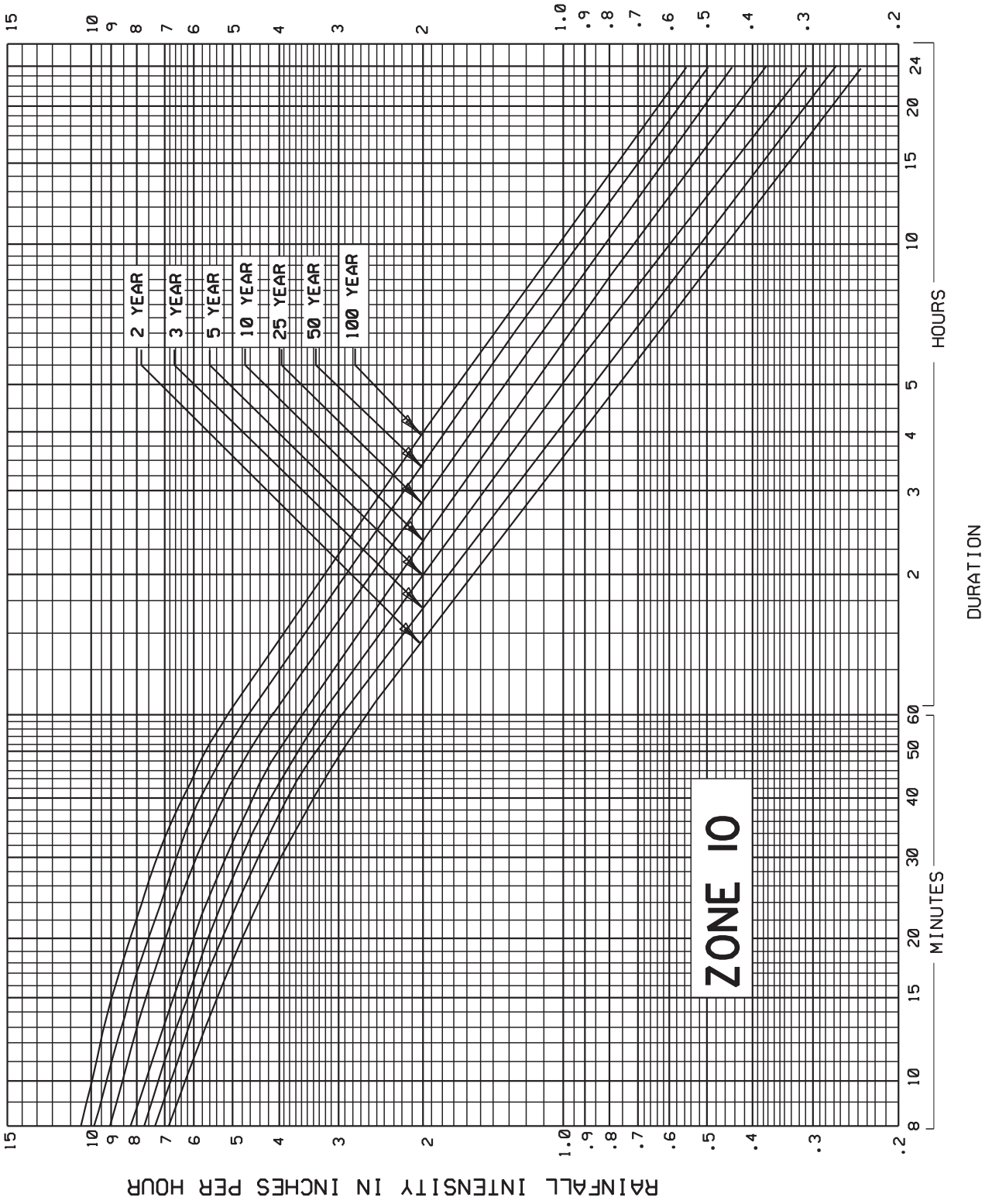
RAINFALL INTENSITY-DURATION-FREQUENCY CURVES
ZONE 7

Drainage Manual
IDF Curves

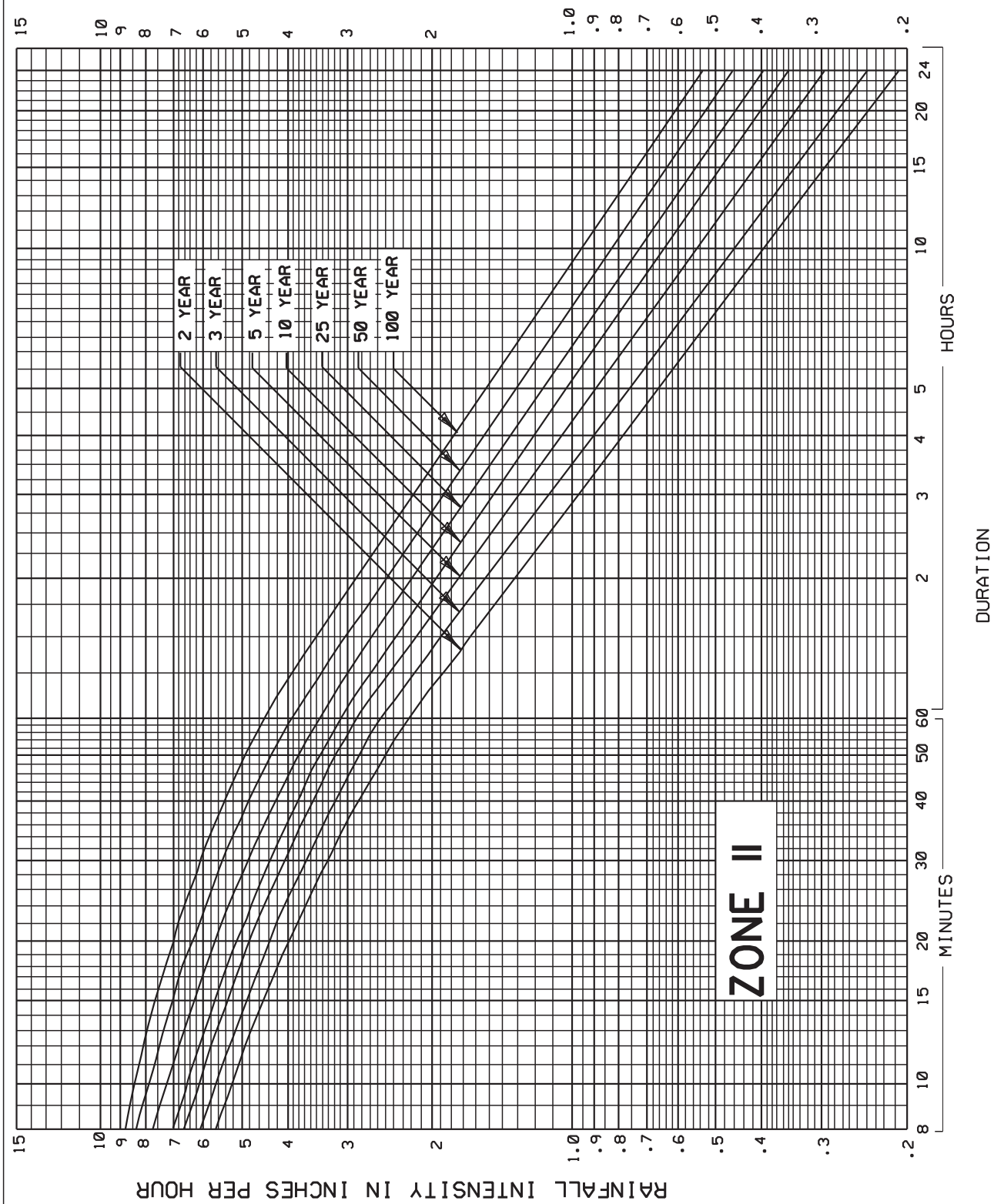




Drainage Manual
IDF Curves



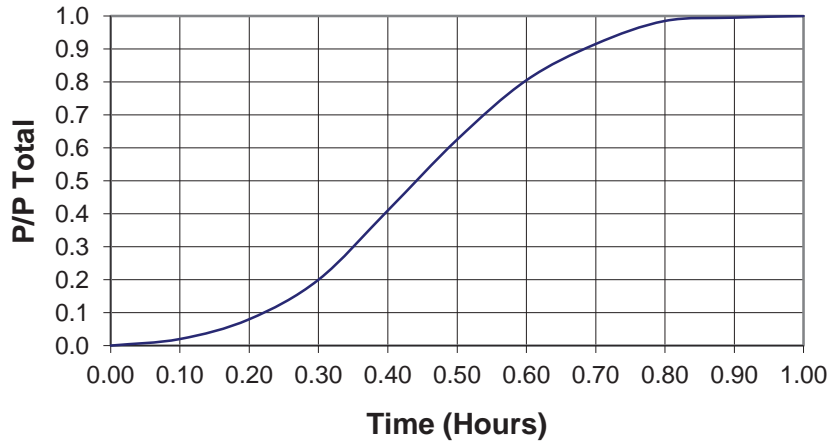
RAINFALL INTENSITY-DURATION-FREQUENCY CURVES
ZONE 10



RAINFALL INTENSITY-DURATION-FREQUENCY CURVES
ZONE 11

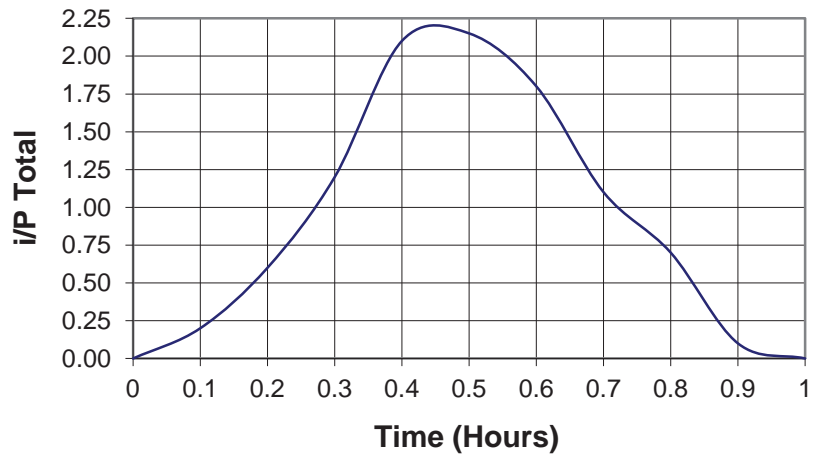
Rainfall Distribution Curves 1 Hour Duration

1 Hour Duration Mass Rainfall Curve



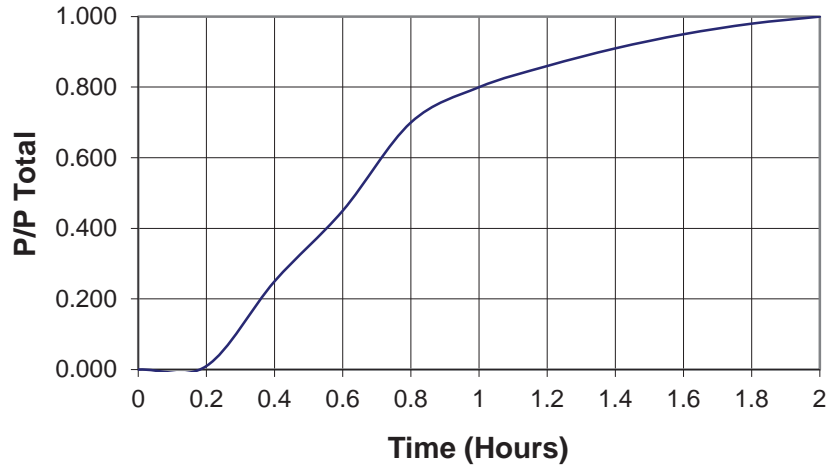
T(hrs)	P/P tot	i/P tot
0.0	0.000	0.000
0.1	0.020	0.200
0.2	0.080	0.600
0.3	0.200	1.200
0.4	0.410	2.100
0.5	0.625	2.150
0.6	0.805	1.800
0.7	0.915	1.100
0.8	0.985	0.700
0.9	0.995	0.100
1.0	1.000	0.000

1 Hour Duration Intensity Curve



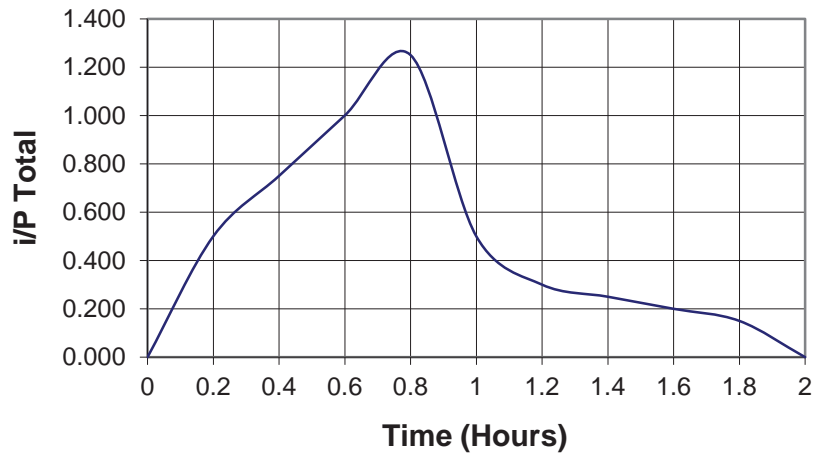
Rainfall Distribution Curves 2 Hour Duration

2 Hour Duration Mass Rainfall Curve



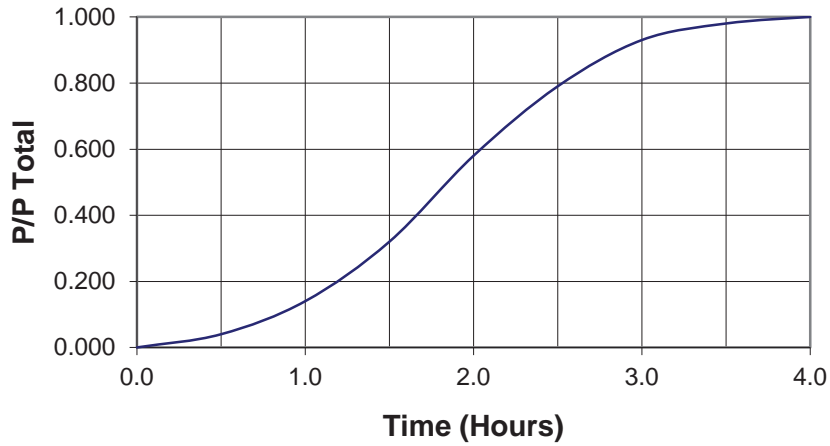
T(hrs)	P/P tot	i/P tot
0.0	0.000	0.000
0.2	0.010	0.500
0.4	0.250	0.750
0.6	0.450	1.000
0.8	0.700	1.250
1.0	0.800	0.500
1.2	0.860	0.300
1.4	0.910	0.250
1.6	0.950	0.200
1.8	0.980	0.150
2.0	1.000	0.000

2 Hour Duration Intensity Curve



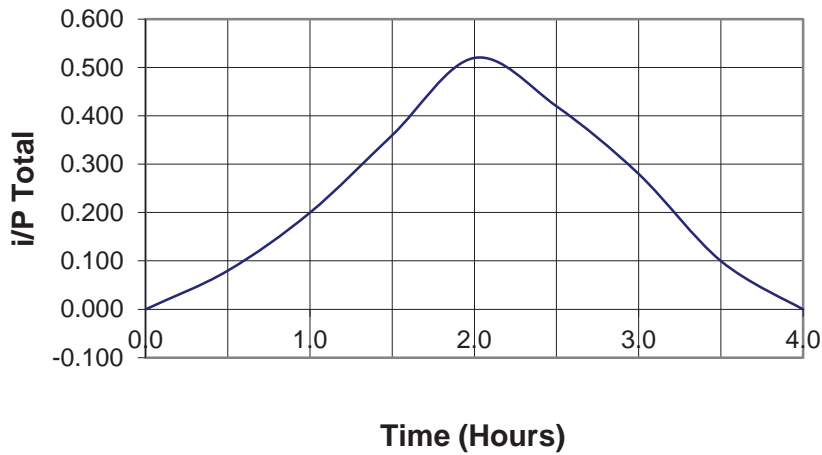
Rainfall Distribution Curves 4 Hour Duration

4 Hour Duration Mass Rainfall Curve



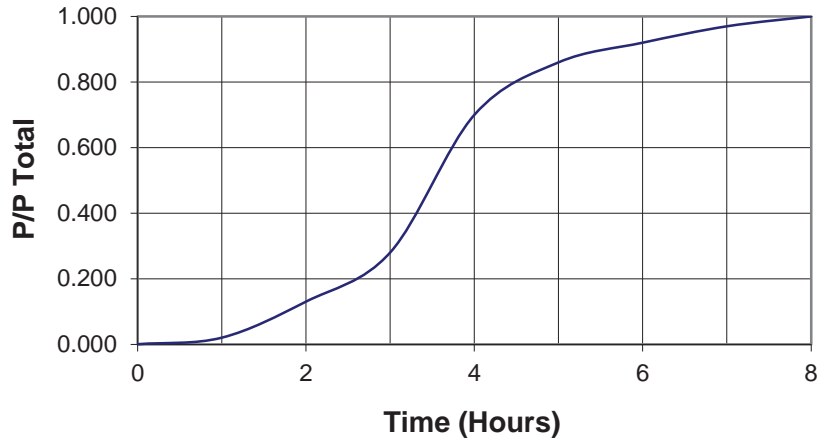
T (hrs)	P/P tot	i/P tot
0.0	0.000	0.000
0.5	0.040	0.080
1.0	0.140	0.200
1.5	0.320	0.360
2.0	0.580	0.520
2.5	0.790	0.420
3.0	0.930	0.280
3.5	0.980	0.100
4.0	1.000	0.000

4 Hour Duration Intensity Curve



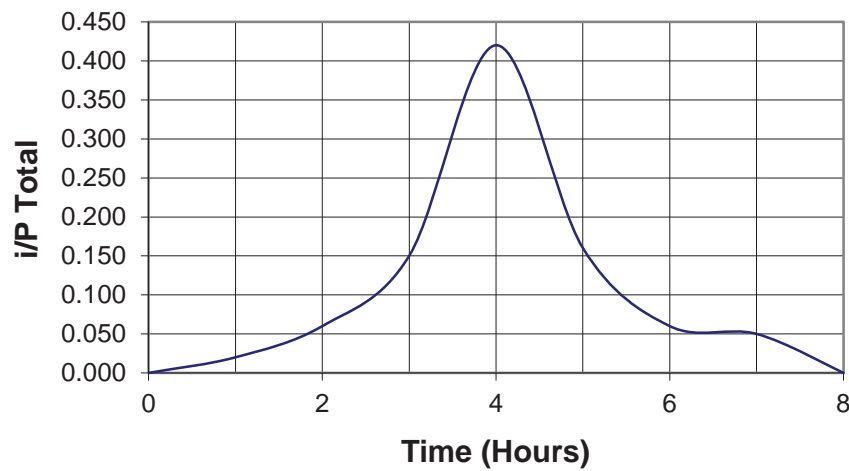
Rainfall Distribution Curves 8 Hour Duration

8 Hour Duration Mass Rainfall Curve



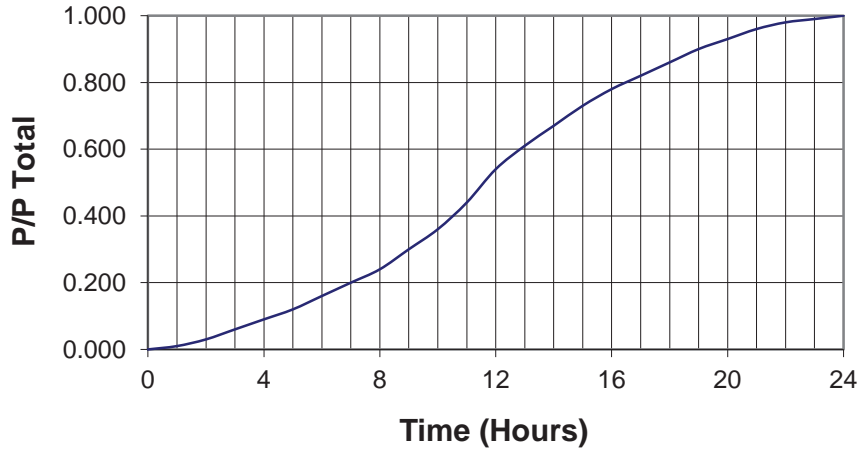
T (hrs)	P/P tot	i/P tot
0	0.000	0.000
1	0.020	0.020
2	0.130	0.060
3	0.280	0.150
4	0.700	0.420
5	0.860	0.160
6	0.920	0.060
7	0.970	0.050
8	1.000	0.000

8 Hour Duration Intensity Curve



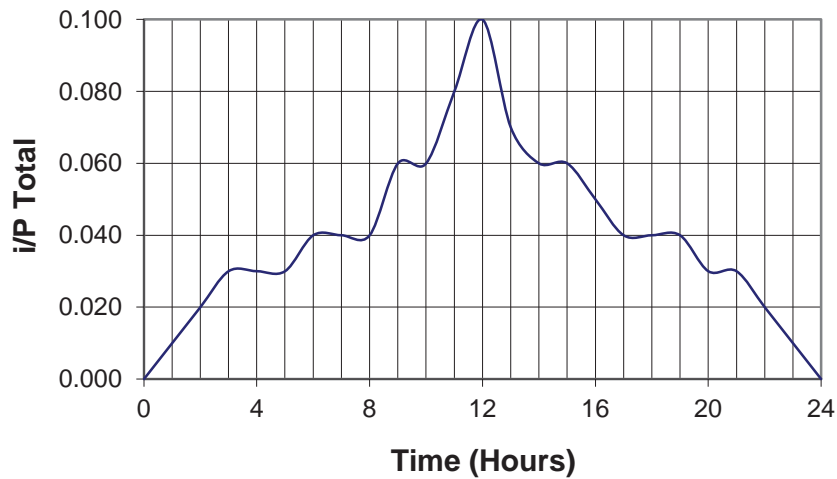
Rainfall Distribution Curves 24 Hour Duration

24 Hour Duration Mass Rainfall Curve



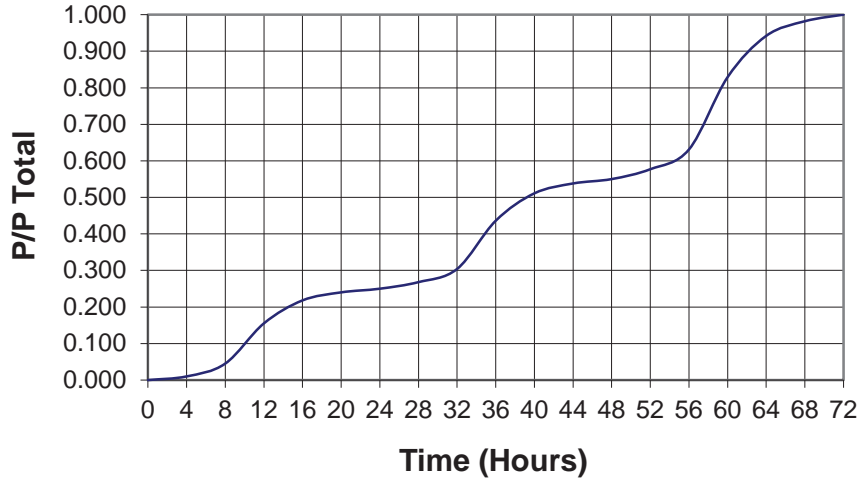
T (hrs)	P/P tot	i/P tot
0	0.000	0.000
1	0.010	0.010
2	0.030	0.020
3	0.060	0.030
4	0.090	0.030
5	0.120	0.030
6	0.160	0.040
7	0.200	0.040
8	0.240	0.040
9	0.300	0.060
10	0.360	0.060
11	0.440	0.080
12	0.540	0.100
13	0.610	0.070
14	0.670	0.060
15	0.730	0.060
16	0.780	0.050
17	0.820	0.040
18	0.860	0.040
19	0.900	0.040
20	0.930	0.030
21	0.960	0.030
22	0.980	0.020
23	0.990	0.010
24	1.000	0.000

24 Hour Duration Intensity Curve



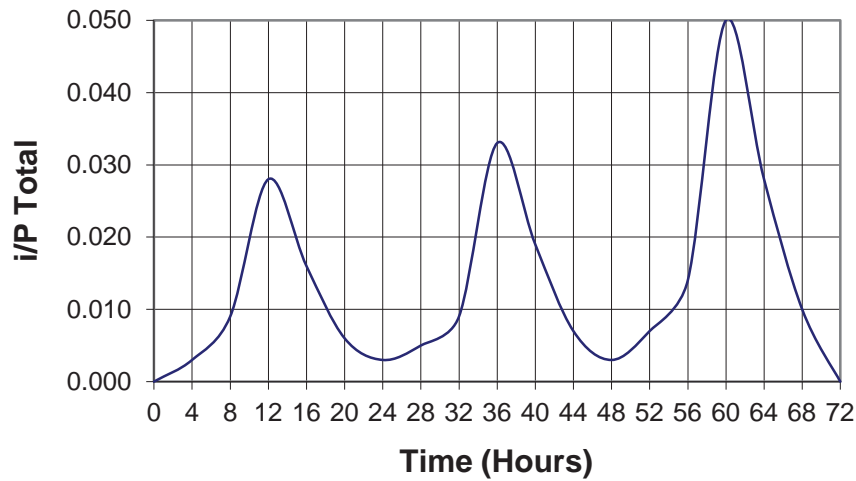
Rainfall Distribution Curves 3 Day Duration

3 Day Duration Mass Rainfall Curve



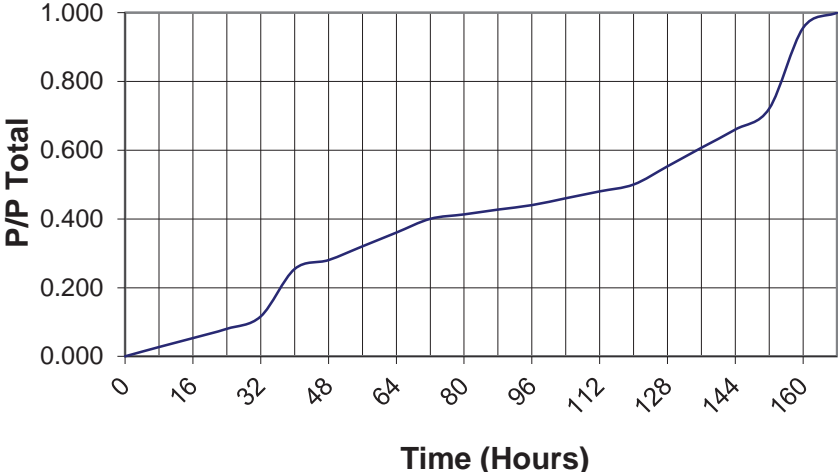
T (hrs)	P/P tot	i/P tot
0	0	0
4	0.01	0.003
8	0.045	0.009
12	0.155	0.028
16	0.218	0.016
20	0.24	0.006
24	0.25	0.003
28	0.268	0.005
32	0.304	0.009
36	0.436	0.033
40	0.511	0.019
44	0.538	0.007
48	0.55	0.003
52	0.577	0.007
56	0.631	0.014
60	0.829	0.05
64	0.942	0.028
68	0.982	0.01
72	1	0

3 Day Duration Intensity Curve



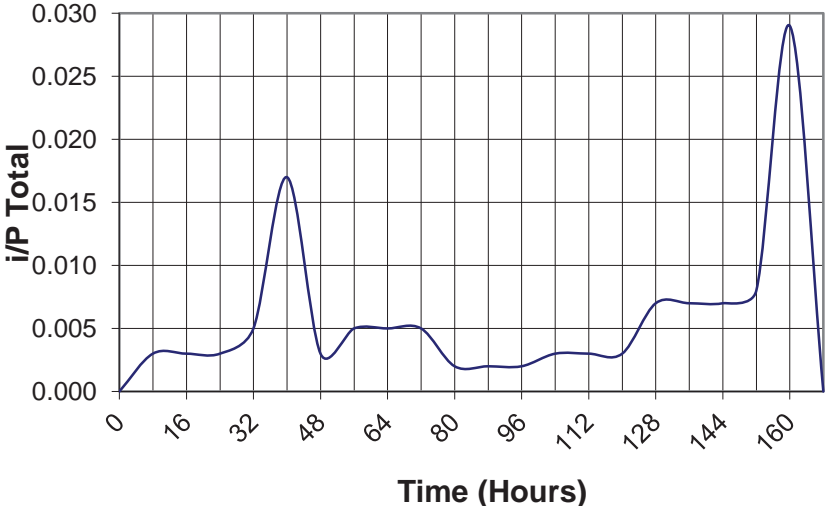
Rainfall Distribution Curves 7 Day Duration

7 Day Duration Mass Rainfall Curve



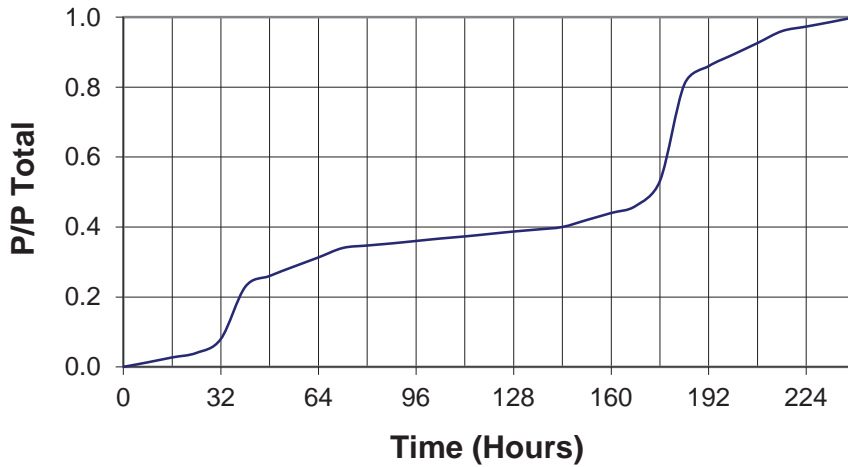
T (hrs)	P/P tot	i/P tot
0	0.000	0.000
8	0.027	0.003
16	0.053	0.003
24	0.080	0.003
32	0.116	0.005
40	0.254	0.017
48	0.280	0.003
56	0.320	0.005
64	0.360	0.005
72	0.400	0.005
80	0.413	0.002
88	0.427	0.002
96	0.440	0.002
104	0.460	0.003
112	0.480	0.003
120	0.500	0.003
128	0.553	0.007
136	0.607	0.007
144	0.660	0.007
152	0.721	0.008
160	0.956	0.029
168	1.000	0.000

7 Day Duration Intensity Curve



Rainfall Distribution Curves 10 Day Duration

10 Day Duration Mass Rainfall Curve



T (hrs)	P/P tot	i/P tot
0	0.000	0.000
8	0.013	0.002
16	0.027	0.002
24	0.040	0.002
32	0.080	0.005
40	0.229	0.019
48	0.260	0.004
56	0.287	0.003
64	0.313	0.003
72	0.340	0.003
80	0.347	0.001
88	0.353	0.001
96	0.360	0.001
104	0.367	0.001
112	0.373	0.001
120	0.380	0.001
128	0.387	0.001
136	0.393	0.001
144	0.400	0.001
152	0.420	0.003
160	0.440	0.003
168	0.460	0.003
176	0.532	0.009
184	0.808	0.035
192	0.860	0.007
200	0.893	0.004
208	0.926	0.004
216	0.960	0.004
224	0.973	0.002
232	0.986	0.002
240	1.000	0.000

10 Day Duration Intensity Curve

