



Sub Basin	Tributary Area (ac)	% Impervious (%)	15-year Impervious PI Factor (PI)	15-year Porous PI Factor (PI)	15-year 20-min runoff (CFS)	100-year 20-min runoff (CFS)
1	0.83	85.00	3.54	1.70	2.08	2.16
2	0.84	85.00	3.54	1.70	2.14	2.19
3	0.83	85.00	3.54	1.70	3.04	4.18
4	0.12	85.00	3.54	1.70	0.40	0.54
5	0.18	85.00	3.54	1.70	0.58	0.76
6	0.13	90.00	3.54	1.70	0.44	0.58
7	0.12	90.00	3.54	1.70	0.40	0.54
8	0.12	92.00	3.54	1.70	0.41	0.55
9	0.08	92.00	3.54	1.70	0.27	0.37
10	0.17	85.00	3.54	1.70	0.39	0.41
11	0.07	87.00	3.54	1.70	0.23	0.31
12	0.15	87.00	3.54	1.70	0.50	0.67
13	0.14	85.00	3.54	1.70	0.48	0.62
14-15	0.38	100.00	4.20	1.70	1.84	2.31
16-18	0.39	100.00	4.20	1.70	1.64	2.21
19	0.30	85.00	3.54	1.70	0.98	1.28
20	0.20	85.00	3.54	1.70	0.69	0.93
21	0.55	85.00	3.54	1.70	1.74	2.38
22	0.26	85.00	3.54	1.70	0.97	1.28
23	0.16	95.00	3.54	1.70	0.55	0.74
24	0.07	100.00	3.54	1.70	0.25	0.33
25a	0.08	95.00	3.54	1.70	0.28	0.37
25b	0.18	90.00	3.54	1.70	0.80	1.07
26a	0.07	95.00	3.54	1.70	0.24	0.33
26b	0.54	95.00	3.54	1.70	1.76	2.38
27	0.08	95.00	3.54	1.70	0.21	0.28
27a	0.02	100.00	3.54	1.70	0.07	0.10
28	0.08	95.00	3.54	1.70	0.21	0.28
28a	0.34	5.00	3.54	1.70	0.61	0.82
28b	0.31	5.00	3.54	1.70	0.68	0.91
31	0.31	55.96	3.54	1.70	0.58	0.75
32	0.32	5.00	3.54	1.70	0.67	0.91
33	0.27	70.00	3.54	1.70	0.61	0.81
34	0.12	95.00	3.54	1.70	0.41	0.56
35	0.12	95.00	3.54	1.70	0.40	0.54
36	0.11	90.00	3.54	1.70	0.37	0.50
37	0.09	95.00	3.54	1.70	0.31	0.42
38	0.08	95.00	3.54	1.70	0.28	0.38
38a	0.16	80.00	3.54	1.70	0.51	0.69
39	0.08	95.00	3.54	1.70	0.29	0.37
40	0.13	95.00	3.54	1.70	0.40	0.54
41	0.12	95.00	3.54	1.70	0.41	0.56
42	0.11	90.00	3.54	1.70	0.37	0.50
43	0.12	95.00	3.54	1.70	0.41	0.56
44	0.10	80.00	3.54	1.70	0.34	0.45
45	0.11	95.00	3.54	1.70	0.38	0.51
46	0.05	100.00	4.20	1.70	0.18	0.23
46-50	0.35	100.00	4.20	1.70	1.46	1.97
51	0.21	70.00	3.54	1.70	0.63	0.85
52-54	0.46	100.00	4.20	1.70	1.61	2.16
55-56	0.46	100.00	4.20	1.70	1.82	2.39
57	0.19	5.00	3.54	1.70	0.34	0.46
58	0.13	95.00	3.54	1.70	0.45	0.61
59	0.23	95.00	3.54	1.70	0.79	1.07
60	0.15	5.00	3.54	1.70	0.27	0.36
61	0.25	70.00	3.54	1.70	0.79	1.07
62	0.28	75.00	3.54	1.70	0.82	1.09
63	0.48	95.00	3.54	1.70	1.88	2.51
64	0.23	95.00	3.54	1.70	0.77	1.04
65	0.08	95.00	3.54	1.70	0.31	0.42
66	0.08	100.00	3.54	1.70	0.28	0.37
67	0.07	95.00	3.54	1.70	0.24	0.33
68	0.08	95.00	3.54	1.70	0.28	0.37
69	0.07	90.00	3.54	1.70	0.23	0.32
70	0.43	70.00	3.54	1.70	1.28	1.73
71	0.33	95.00	3.54	1.70	0.77	1.04
72	0.08	95.00	3.54	1.70	0.28	0.37
73	0.11	95.00	3.54	1.70	0.38	0.51
74	0.21	70.00	3.54	1.70	0.63	0.85
75	0.11	95.00	3.54	1.70	0.38	0.51
76	0.09	95.00	3.54	1.70	0.31	0.42
77	0.19	95.00	3.54	1.70	0.64	0.86
78	0.08	5.00	3.54	1.70	0.18	0.22
79	0.14	5.00	3.54	1.70	0.25	0.34
Total	16.49		Total	49.47	66.78	

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SITE IMPROVEMENT PLANS FOR:
WATERMARK APARTMENTS AT O'FALLON
 CRUSHER ROAD & WELDON SPRING ROAD
 CITY OF O'FALLON, ST. CHARLES COUNTY, MISSOURI 63366



GEORGE M. STOCK E-2116
 CIVIL ENGINEER
 CERTIFICATE OF AUTHORITY
 NUMBER: 00998

REVISIONS:

NO.	DATE	DESCRIPTION
1	01/16/2020	60% PRINTING
2	01/16/2020	PERMIT SET
3	03/25/2020	REVISED PER OWNER
4	01/17/2020	ADDENDUM A

DRAWN BY: T.S.J.M.B. CHECKED BY: G.M.S.
 DATE: 01/16/2019 JOB NO: 219-6494
 SHEET TITLE: DRAINAGE AREA MAP (HYDRAULICS)
 SHEET NO.: C11.0