



**PROPOSED OPTION #1 TILE SUMMARY**

Area	Existing Size (in)	Proposed Size (in)	Existing Slope (%)	Proposed Slope (%)	Drainage Area (Acres)	Existing Drainage Coefficient (in/day)	Proposed Drainage Coefficient (in/day)
Main	26	Open	0.10%	0.06%	4557.1	0.05	5.78
	26	84 - Culvert	0.10%	0.06%	4553.9	0.05	0.82
	26	Open	0.10%	0.06%	4285.1	0.05	7.08
	26	Open	0.10%	0.00%	4249.4	0.05	0.00
	26	60	0.10%	0.12%	4249.4	0.05	0.51
	26	60	0.10%	0.12%	3586.2	0.06	0.60
	24	60	0.10%	0.12%	3574.8	0.05	0.60
	24	60	0.20%	0.12%	3529.3	0.07	0.61
	24	54	0.10%	0.12%	3418.3	0.05	0.48
	24	54	0.10%	0.12%	3216.1	0.05	0.51
	24	54	0.10%	0.10%	3038.7	0.06	0.49
	24	48	0.10%	0.15%	2836.3	0.06	0.47
	24	48	0.10%	0.15%	2565.0	0.07	0.52
	24	48	0.10%	0.15%	2478.2	0.07	0.54
	18	42	0.10%	0.20%	2070.6	0.04	0.52
	18	42	0.25%	0.20%	2070.6	0.06	0.52
	18	42	0.30%	0.20%	2060.2	0.07	0.52
	18	42	0.15%	0.20%	2014.9	0.05	0.53
	18	36	0.40%	0.40%	1999.1	0.08	0.50
	18	36	0.40%	0.40%	1911.5	0.08	0.53
	18	36	0.40%	0.30%	1733.5	0.09	0.50
	18	36	0.40%	0.30%	1369.4	0.12	0.64
	16	36	0.30%	0.30%	1369.4	0.07	0.64
	16	36	0.30%	0.30%	1236.4	0.08	0.71
	16	30	0.30%	0.50%	1062.4	0.09	0.65
	16	30	0.40%	0.40%	1062.4	0.11	0.58
	12	24	0.50%	0.40%	524.4	0.11	0.65
	10	18	0.50%	0.50%	278.7	0.13	0.64
	10	18	1.00%	0.85%	246.5	0.21	0.94
	10	18	0.50%	0.50%	243.1	0.15	0.73
10	18	0.30%	0.50%	228.4	0.13	0.78	
8	15	0.30%	0.50%	131.4	0.12	0.83	
8	15	0.50%	0.50%	131.4	0.16	0.83	
8	12	1.00%	1.00%	90.8	0.32	0.94	
8	12	1.50%	1.00%	75.3	0.47	1.13	
Branch A	10	12	0.10%	0.30%	97.0	0.17	0.48
	8	10	1.80%	0.70%	67.7	0.57	0.65
	8	10	1.00%	0.70%	66.0	0.44	0.66
	8	10	0.40%	0.70%	52.4	0.35	0.84
Branch A1	8	8	0.10%	0.15%	23.2	0.39	0.48
	8	8	0.10%	0.15%	14.6	0.62	0.76
Branch B	10	18	0.30%	0.30%	208.3	0.14	0.66
	10	18	0.60%	0.30%	208.3	0.19	0.66
	10	18	0.10%	0.30%	208.3	0.08	0.66
	8	12	0.10%	0.15%	60.6	0.15	0.54
	8	12	0.10%	0.15%	48.4	0.19	0.68
	8	10	0.10%	0.15%	18.9	0.48	1.07



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Branch B1	6	15	0.50%	0.75%	197.3	0.05	0.68
	6	15	1.00%	0.75%	197.3	0.07	0.68
	6	15	0.80%	0.75%	197.3	0.06	0.68
	6	15	0.80%	0.75%	197.3	0.06	0.68
	6	15	0.20%	0.30%	164.2	0.04	0.51
	6	15	0.20%	0.30%	153.8	0.04	0.55
Branch D	8	15	0.10%	0.25%	145.2	0.06	0.53
	8	15	0.10%	0.25%	136.6	0.07	0.56
	8	15	1.00%	0.25%	122.7	0.23	0.63
	8	12	0.50%	0.40%	104.1	0.20	0.52
	8	12	0.20%	0.50%	104.1	0.12	0.58
Branch H	12	30	0.05%	0.10%	407.7	0.05	0.76
	12	30	0.05%	0.10%	372.7	0.05	0.83
	12	24	0.05%	0.10%	306.3	0.06	0.56
	10	24	0.10%	0.10%	299.8	0.06	0.57
	10	18	0.20%	0.20%	200.0	0.12	0.56
Branch L	6	12	0.20%	0.50%	112.2	0.05	0.54
	6	10	0.60%	1.00%	78.8	0.13	0.66
Branch P1	8	15	1.00%	0.65%	124.6	0.23	1.00
	8	15	0.80%	0.65%	124.6	0.21	1.00
	8	15	0.70%	0.65%	124.6	0.19	1.00
	8	15	0.30%	0.30%	113.2	0.14	0.75
	8	12	1.00%	0.30%	64.0	0.45	0.73
	8	10	0.50%	0.30%	44.2	0.46	0.65
	8	10	0.40%	0.30%	44.2	0.41	0.65
	8	10	0.10%	0.30%	44.2	0.21	0.65
Branch S	18	Open	0.30%	0.10%	3227.2	0.04	8.46
	18	84 - Culvert	0.20%	0.11%	3227.2	0.03	1.57
	18	Open	0.25%	0.10%	3190.5	0.00	8.46
	18	54	0.25%	0.14%	3190.5	0.04	0.55
	16	48	0.50%	0.14%	2502.9	0.05	0.51
	16	48	0.30%	0.14%	2502.9	0.04	0.51
	16	48	0.15%	0.14%	2502.9	0.03	0.51
	16	48	0.15%	0.14%	2407.7	0.03	0.53
	16	48	0.15%	0.14%	2317.6	0.03	0.57
	16	42	0.15%	0.20%	2261.4	0.03	0.47
	16	42	0.15%	0.20%	2133.0	0.03	0.50
	15	36	0.25%	0.30%	1801.6	0.04	0.48
	15	36	0.10%	0.30%	1718.5	0.03	0.51
	14	36	0.20%	0.20%	1258.6	0.05	0.57
	14	36	0.20%	0.20%	1146.1	0.05	0.62
	14	36	0.60%	0.20%	960.2	0.10	0.74
	14	36	0.20%	0.20%	960.2	0.06	0.74
	14	30	0.20%	0.20%	886.6	0.06	0.49
	14	30	0.15%	0.20%	886.6	0.06	0.49
	14	30	0.70%	0.20%	755.5	0.14	0.58
	14	30	0.20%	0.20%	726.6	0.08	0.60
	14	30	0.20%	0.20%	694.0	0.08	0.63
	14	24	0.20%	0.40%	660.8	0.09	0.52
	-	24	-	0.40%	638.4	-	0.53
	-	24	-	0.40%	589.2	-	0.58
	-	24	-	0.40%	546.4	-	0.62
-	18	-	0.60%	370.7	-	0.52	
-	18	-	0.60%	347.7	-	0.56	



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Branch S1	12	24	0.30%	0.50%	637.1	0.07	0.60
	12	24	0.40%	0.50%	553.4	0.10	0.69
Branch S2	6	15	0.30%	0.30%	116.0	0.06	0.73
	6	12	1.00%	0.70%	112.0	0.12	0.64
	6	12	0.60%	0.70%	106.0	0.10	0.67
	6	12	1.00%	0.70%	35.5	0.38	2.01
	6	12	0.60%	0.70%	35.5	0.29	2.01
6	12	1.00%	0.70%	35.5	0.38	2.01	
Branch S13	12	24	0.10%	0.15%	337.7	0.08	0.62
	10	18	1.00%	0.35%	236.2	0.22	0.63
	10	18	0.70%	0.35%	236.2	0.19	0.63
	10	18	0.30%	0.35%	236.2	0.12	0.63
	8	15	1.00%	0.35%	126.7	0.23	0.72
	8	15	0.25%	0.35%	126.7	0.11	0.72
	8	15	0.20%	0.35%	86.1	0.15	1.06
	6	10	0.50%	0.40%	54.5	0.17	0.61
6	10	1.00%	0.40%	34.7	0.39	0.95	
6	10	0.20%	0.40%	34.7	0.17	0.95	
Branch S16	6	8	0.30%	0.40%	26.7	0.27	0.68
Branch S21	6	10	0.50%	0.80%	70.3	0.13	0.67
	6	10	1.00%	0.80%	60.7	0.22	0.77
	6	10	0.50%	0.80%	60.7	0.16	0.77
Branch S22	-	8	-	1.40%	33.1	-	1.03
	-	8	-	1.40%	18.6	-	1.83
Branch S23	-	10	-	0.15%	21.4	-	0.95
Branch S24	-	10	-	1.00%	34.0	-	1.54
Branch S26	-	8	-	1.00%	18.7	-	1.54
Branch U	18	42	0.05%	0.07%	1256.1	0.04	0.51
	18	36	0.05%	0.10%	1009.1	0.06	0.50
	18	36	0.05%	0.10%	999.5	0.06	0.50
	12	30	0.10%	0.08%	536.1	0.05	0.52
Branch V	10	15	0.10%	0.10%	90.6	0.18	0.54
	8	12	0.30%	0.15%	62.8	0.25	0.52
Branch W	12	30	0.20%	0.15%	534.7	0.07	0.71
	10	24	0.20%	0.15%	334.8	0.07	0.62
	10	24	0.10%	0.15%	334.8	0.05	0.62
	10	24	0.10%	0.15%	305.6	0.05	0.68
	10	24	0.10%	0.15%	292.4	0.06	0.72
	10	24	0.10%	0.15%	250.0	0.07	0.84
	8	18	0.10%	0.15%	201.0	0.05	0.48
8	18	0.10%	0.15%	16.7	0.55	5.82	
Branch HH	8	12	0.20%	0.20%	75.0	0.17	0.51
	8	12	0.50%	0.20%	75.0	0.27	0.51
	8	10	1.00%	1.10%	57.2	0.50	0.96
	8	10	1.50%	1.10%	31.7	1.12	1.73
	8	10	1.00%	1.10%	15.7	1.84	3.50
	8	10	0.25%	0.20%	15.7	0.92	1.49
Branch JJ	10	24	0.80%	0.60%	454.7	0.10	0.92
	10	18	0.80%	0.60%	389.9	0.12	0.50
	10	18	1.00%	0.60%	355.8	0.15	0.55
	10	18	0.30%	0.60%	344.7	0.08	0.56
	10	18	0.10%	0.60%	344.7	0.00	0.56
	10	18	0.10%	0.20%	233.0	0.07	0.48
	8	15	0.10%	0.15%	87.4	0.10	0.68
8	10	0.10%	0.15%	12.8	0.01	1.59	



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Branch JJ1	8	15	0.10%	0.25%	34.0	0.27	2.27
Branch KK	10	18	0.50%	0.60%	360.9	0.10	0.54
	10	12	1.50%	1.00%	161.2	0.40	0.53
	10	12	1.00%	1.00%	161.2	0.32	0.53
	10	12	1.50%	1.00%	140.5	0.46	0.61
	10	12	0.60%	0.60%	110.8	0.37	0.59
	10	12	1.00%	0.60%	92.9	0.56	0.71
	10	12	0.60%	0.60%	89.0	0.46	0.74
	10	12	0.20%	0.60%	89.0	0.26	0.74
	10	10	0.60%	0.50%	25.8	1.57	1.43
	10	10	0.40%	0.50%	25.8	1.28	1.43
	6	10	0.40%	0.50%	18.5	0.46	2.00
6	8	0.40%	0.50%	13.9	0.61	1.47	
Branch KK1	8	15	0.50%	1.00%	196.2	0.10	0.79
	8	15	1.00%	1.00%	189.6	0.15	0.81
	8	15	0.50%	1.00%	181.0	0.11	0.85
	8	15	1.50%	1.00%	181.0	0.20	0.85
	8	15	1.00%	1.00%	181.0	0.16	0.85
	8	15	0.75%	0.40%	166.2	0.15	0.59
	8	15	0.50%	0.40%	158.8	0.13	0.61
Branch RR	14	36	0.10%	0.10%	831.5	0.05	0.61
	14	36	0.10%	0.10%	777.0	0.05	0.65
	14	36	0.10%	0.10%	680.2	0.06	0.74
	14	36	0.10%	0.10%	660.5	0.06	0.76
	14	30	0.10%	0.10%	648.0	0.06	0.48
	14	30	0.20%	0.20%	550.8	0.10	0.79
	12	30	0.20%	0.20%	513.2	0.07	0.85
	12	30	0.40%	0.20%	513.2	0.10	0.85
	10	24	0.40%	0.30%	391.2	0.08	0.76
	10	24	0.50%	0.30%	391.2	0.09	0.76
	10	24	0.20%	0.30%	391.2	0.06	0.76
10	24	0.30%	0.30%	343.6	0.08	0.86	
Branch RR8	8	15	0.10%	0.20%	137.1	0.07	0.50
Branch SS	12	30	0.05%	0.05%	446.0	0.04	0.49
	12	30	0.05%	0.05%	255.8	0.07	0.86
	12	24	0.05%	0.05%	219.0	0.09	0.55
Branch TT	15	36	0.20%	0.10%	988.8	0.07	0.51
	15	36	0.60%	0.10%	988.8	0.12	0.51
	15	36	0.40%	0.10%	988.8	0.10	0.51
	15	30	0.40%	0.30%	934.5	0.10	0.57
	15	30	0.50%	0.30%	902.4	0.12	0.59
	15	30	0.40%	0.30%	786.3	0.12	0.68
	15	30	0.20%	0.30%	711.0	0.10	0.75
	14	24	0.20%	0.30%	481.7	0.12	0.61
	14	24	0.50%	0.30%	442.0	0.21	0.67
	14	24	0.80%	0.30%	387.4	0.30	0.76
	14	24	0.20%	0.30%	387.4	0.15	0.76
	14	18	1.60%	0.60%	348.1	0.47	0.56
	12	18	1.00%	0.60%	348.1	0.24	0.56
	12	18	0.80%	0.60%	348.1	0.22	0.56
	12	18	0.60%	0.60%	348.1	0.19	0.56
12	18	0.30%	0.60%	298.3	0.16	0.65	
12	18	0.30%	0.30%	235.2	0.20	0.58	
Branch WW	16	24	0.20%	0.10%	289.7	0.28	0.60
	16	18	1.20%	0.70%	254.7	0.79	0.83
	16	18	0.10%	0.25%	254.3	0.23	0.50
	16	18	0.10%	0.20%	224.4	0.26	0.51
	16	18	0.10%	0.15%	194.3	0.30	0.51
	15	18	0.10%	0.10%	147.8	0.33	0.53



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	15	15	0.10%	0.10%	137.2	0.36	0.55
	12	12	0.10%	0.10%	76.7	0.35	2.48



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Branch WW3	6	12	0.20%	0.50%	5.6	1.07	0.77
	6	12	1.00%	0.50%	5.6	2.39	0.77
	6	10	2.90%	1.50%	5.6	4.08	0.82
	6	10	0.50%	1.50%	5.6	1.69	0.82
	6	8	2.50%	1.50%	5.1	4.18	5.30
	6	8	2.00%	1.50%	5.1	3.74	5.30
	6	8	0.20%	1.50%	5.1	1.18	5.30
	6	8	1.20%	1.50%	5.1	2.90	5.30
Branch WW4	8	10	0.10%	0.20%	48.2	0.19	0.53
	8	10	0.20%	0.20%	40.2	0.32	0.58
Branch WW5	8	8	0.10%	0.20%	10.6	0.86	1.46
	8	8	0.20%	0.20%	5.9	2.20	1.46
JD 9 Outlet	38	60	0.60%	0.32%	5700.2	0.25	0.52