

TOTAL AREA=11.27-3.05(POND#1)=8.22 AC.

FREQUENCY = 10 YEAR

FREQUENCY = 25 YEAR

FREQUENCY = 50 YEAR

FREQUENCY = 100 YEAR

1. VOLUME REQUIRED

	1) COMMERCIAL		2) OFF-SITE		3) RESIDENTIAL		Q(TOTAL) = 219.87 CFS
	POND-2 8.22 AC 3.05AC.	POND-1 8.22 AC 3.05AC.	DIRECT DISCH	THRU LINE "A"	DIRECT DISCH	THRU LINE "A"	
PRESENT	C= 0.35 I= 5.68 A= 8.22 Q= 16.34	C= 0.9 I= 7.19 A= 1.005 Q= 6.50	C= 0.9 I= 7.19 A= 1.005 Q= 6.50	C= 0.5 I= 7.19 A= 1.005 Q= 6.50	C= 0.5 I= 7.19 A= 1.005 Q= 6.50	C= 0.5 I= 7.19 A= 1.005 Q= 6.50	
FUTURE	C= 0.9 I= 7.19 A= 8.22 Q= 53.19	C= 0.9 I= 7.19 A= 1.005 Q= 6.50	C= 0.9 I= 7.19 A= 1.005 Q= 6.50	C= 0.5 I= 7.19 A= 1.005 Q= 6.50	C= 0.5 I= 7.19 A= 1.005 Q= 6.50	C= 0.5 I= 7.19 A= 1.005 Q= 6.50	
C * A =	7.40	0.90	23.47	0.67	2.15	1.12	

	1) COMMERCIAL		2) OFF-SITE		3) RESIDENTIAL		Q(TOTAL) = 251.71 CFS
	POND-2 8.22 AC 3.05AC.	POND-1 8.22 AC 3.05AC.	DIRECT DISCH	THRU LINE "A"	DIRECT DISCH	THRU LINE "A"	
PRESENT	C= 0.35 I= 6.61 A= 8.22 Q= 19.02	C= 0.9 I= 8.22 A= 1.005 Q= 7.43	C= 0.9 I= 8.22 A= 1.005 Q= 7.43	C= 0.5 I= 8.22 A= 1.005 Q= 7.43	C= 0.5 I= 8.22 A= 1.005 Q= 7.43	C= 0.5 I= 8.22 A= 1.005 Q= 7.43	
FUTURE	C= 0.9 I= 8.22 A= 8.22 Q= 60.81	C= 0.9 I= 8.22 A= 1.005 Q= 7.43	C= 0.9 I= 8.22 A= 1.005 Q= 7.43	C= 0.5 I= 8.22 A= 1.005 Q= 7.43	C= 0.5 I= 8.22 A= 1.005 Q= 7.43	C= 0.5 I= 8.22 A= 1.005 Q= 7.43	
C * A =	7.40	0.90	23.47	0.67	2.15	1.12	

	1) COMMERCIAL		2) OFF-SITE		3) RESIDENTIAL		Q(TOTAL) = 276.40 CFS
	POND-2 8.22 AC 3.05AC.	POND-1 8.22 AC 3.05AC.	DIRECT DISCH	THRU LINE "A"	DIRECT DISCH	THRU LINE "A"	
PRESENT	C= 0.35 I= 7.42 A= 8.22 Q= 21.35	C= 0.9 I= 9.01 A= 1.005 Q= 8.15	C= 0.9 I= 9.01 A= 1.005 Q= 8.15	C= 0.5 I= 9.01 A= 1.005 Q= 8.15	C= 0.5 I= 9.01 A= 1.005 Q= 8.15	C= 0.5 I= 9.01 A= 1.005 Q= 8.15	
FUTURE	C= 0.9 I= 9.01 A= 8.22 Q= 66.66	C= 0.9 I= 9.01 A= 1.005 Q= 8.15	C= 0.9 I= 9.01 A= 1.005 Q= 8.15	C= 0.5 I= 9.01 A= 1.005 Q= 8.15	C= 0.5 I= 9.01 A= 1.005 Q= 8.15	C= 0.5 I= 9.01 A= 1.005 Q= 8.15	
C * A =	7.40	0.90	23.47	0.67	2.15	1.12	

	1) COMMERCIAL		2) OFF-SITE		3) RESIDENTIAL		Q(TOTAL) = 301.30 CFS
	POND-2 8.22 AC 3.05AC.	POND-1 8.22 AC 3.05AC.	DIRECT DISCH	THRU LINE "A"	DIRECT DISCH	THRU LINE "A"	
PRESENT	C= 0.35 I= 8.3 A= 8.22 Q= 23.88	C= 0.9 I= 9.8 A= 1.005 Q= 8.86	C= 0.9 I= 9.8 A= 1.005 Q= 8.86	C= 0.5 I= 9.8 A= 1.005 Q= 8.86	C= 0.5 I= 9.8 A= 1.005 Q= 8.86	C= 0.5 I= 9.8 A= 1.005 Q= 8.86	
FUTURE	C= 0.9 I= 9.8 A= 8.22 Q= 72.50	C= 0.9 I= 9.8 A= 1.005 Q= 8.86	C= 0.9 I= 9.8 A= 1.005 Q= 8.86	C= 0.5 I= 9.8 A= 1.005 Q= 8.86	C= 0.5 I= 9.8 A= 1.005 Q= 8.86	C= 0.5 I= 9.8 A= 1.005 Q= 8.86	
C * A =	7.40	0.90	23.47	0.67	2.15	1.12	

TIME	INTN	Q-(CA)M	Q-(CA)M	Q-(CA)M	Q-(CA)M	Q-(CA)M	Q-(CA)M	T.DISCH	INFLOW	OUTFLOW	STORAGE
10	7.19	53.19	6.50	168.74	4.78	15.48	8.03	258.72	154,054.82	131,924.67	22,110.16
15	6.35	48.98	5.74	149.03	4.22	13.87	7.09	228.73	204,058.50	184,905.83	19,152.67
20	5.88	42.02	5.14	133.31	3.78	12.23	6.34	202.81	243,370.73	197,887.50	45,483.24
25	5.14	38.03	4.68	120.63	3.42	11.06	5.74	183.33	278,291.72	230,864.18	47,427.54
30	4.70	34.77	4.28	110.31	3.13	10.12	5.25	187.82	302,071.07	283,848.33	18,222.74
35	4.33	32.03	3.92	101.62	2.88	9.32	4.83	154.61	324,672.84	296,830.50	27,842.34
40	4.01	31.67	3.63	94.11	2.67	8.63	4.48	143.18	343,339.65	322,811.68	20,527.96
45	3.73	27.39	3.37	87.54	2.48	8.03	4.18	133.18	388,353.11	322,752.83	65,599.27
50	3.50	26.99	3.17	82.14	2.33	7.53	3.91	124.97	374,310.80	395,774.00	(20,863.10)
55	3.29	22.34	2.98	77.21	2.19	7.08	3.67	117.07	389,879.57	428,768.18	(41,097.39)
60	3.10	22.93	2.80	72.75	2.06	6.67	3.46	110.89	398,476.72	461,756.33	(53,268.60)
65	2.95	20.57	2.60	68.94	1.95	6.36	3.30	99.76	416,900.82	527,898.88	(110,767.74)
70	2.83	18.72	2.39	65.98	1.83	6.05	3.14	93.54	433,611.74	633,860.59	(163,246.75)
75	2.72	17.16	2.10	64.45	1.74	5.89	2.99	82.84	447,322.28	858,623.33	(232,301.08)

TIME	INTN	Q-(CA)M	Q-(CA)M	Q-(CA)M	Q-(CA)M	Q-(CA)M	Q-(CA)M	T.DISCH	INFLOW	OUTFLOW	STORAGE
10	8.22	60.81	7.43	192.92	5.47	17.69	9.18	293.50	176,101.01	151,024.26	25,076.75
15	7.33	54.23	6.83	176.03	4.87	15.78	8.18	261.72	225,581.18	188,780.37	36,790.85
20	6.61	48.90	6.38	155.13	4.40	14.23	7.38	236.02	285,218.41	225,538.36	59,680.05
25	6.01	44.46	5.94	141.95	4.00	12.94	6.71	214.59	321,867.79	264,292.44	57,565.35
30	5.50	40.68	5.57	129.08	3.66	11.84	6.14	196.38	353,487.47	302,046.55	51,440.92
35	5.07	37.51	5.25	118.99	3.37	10.91	5.66	181.03	380,158.85	339,804.57	40,354.29
40	4.69	35.70	4.92	110.07	3.12	10.10	5.24	167.46	401,904.48	377,550.62	24,353.86
45	4.37	35.33	4.65	102.58	2.91	9.41	4.88	156.03	421,392.73	416,316.60	5,076.04
50	4.08	30.18	4.36	95.75	2.71	8.78	4.55	145.68	437,038.89	453,072.78	(15,033.76)
55	3.83	28.33	4.06	88.69	2.55	8.24	4.28	136.75	451,299.61	490,828.32	(38,534.70)
60	3.60	28.23	3.78	84.49	2.39	7.72	4.02	128.54	462,747.17	529,584.82	(66,837.71)
65	3.40	23.75	3.50	79.34	2.23	7.21	3.78	114.82	481,385.60	604,029.01	(122,711.41)
70	3.23	21.45	3.27	75.05	2.08	6.71	3.54	103.50	497,024.74	679,609.13	(182,584.39)
75	3.09	19.53	2.99	71.86	1.93	6.24	3.29	94.29	509,021.58	755,151.28	(245,995.37)

TIME	INTN	Q-(CA)M	Q-(CA)M	Q-(CA)M	Q-(CA)M	Q-(CA)M	Q-(CA)M	T.DISCH	INFLOW	OUTFLOW	STORAGE
10	9.01	66.66	8.15	211.46	5.99	19.99	10.06	321.71	193,025.55	165,840.37	27,185.18
15	8.16	60.37	7.68	191.51	5.43	17.56	9.11	287.36	232,224.40	207,300.44	24,923.96
20	7.42	54.69	7.17	174.14	4.93	15.97	8.28	264.94	271,924.44	246,780.59	25,143.85
25	6.77	50.08	6.72	158.89	4.50	14.57	7.56	241.13	302,992.40	280,220.63	22,771.75
30	6.20	47.47	6.31	145.87	4.12	13.35	6.92	221.46	328,476.73	317,680.74	10,795.99
35	5.74	42.17	5.88	133.78	3.79	12.27	6.36	203.52	352,469.43	373,140.83	5,258.59
40	5.25	38.64	5.45	123.21	3.49	11.30	5.86	187.46	374,893.08	414,600.93	35,294.15
45	4.86	35.33	5.00	114.08	3.23	10.46	5.43	173.53	395,537.51	450,981.02	54,440.49
50	4.50	33.29	4.67	106.61	2.98	9.59	5.02	160.88	418,028.30	497,521.11	(75,492.81)
55	4.19	31.00	4.36	98.34	2.79	8.92	4.68	148.61	433,704.10	538,981.41	(45,277.11)
60	3.90	28.85	4.03	91.53	2.59	8.39	4.35	139.26	451,908.43	580,441.53	(73,131.71)
65	3.64	26.23	3.68	85.03	2.42	7.84	4.01	121.76	471,378.47	631,381.88	(151,003.02)
70	3.40	22.19	3.41	79.41	2.26	7.24	3.71	107.12	484,163.52	746,281.87	(232,118.15)
75	3.28	19.68	3.11	74.43	2.11	6.73	3.47	94.98	512,878.11	829,201.84	(316,303.44)

TIME	INTN	Q-(CA)M	Q-(CA)M	Q-(CA)M	Q-(CA)M	Q-(CA)M	Q-(CA)M	T.DISCH	INFLOW	OUTFLOW	STORAGE
10	9.80	72.50	8.86	230.00	6.52	21.09	10.84	349.82	209,950.10	180,777.32	29,172.78
15	9.00	66.58	8.14	211.22	5.99	19.37	10.06	321.35	258,218.88	225,977.63	32,241.25
20	8.30	61.40	7.51	194.80	5.52	17.87	9.27	296.36	305,829.77	271,633.99	34,195.78
25	7.80	55.49	6.78	178.02	4.99	16.14	8.37	287.79	350,895.25	316,360.35	34,534.90
30	7.10	51.00	6.24	161.84	4.59	14.85	7.70	248.37	443,488.04	361,854.69	81,633.35
35	6.40	47.85	5.75	150.20	4.26	13.72	7.15	228.97	478,895.95	408,748.38	70,147.57
40	5.90	42.51	5.25	136.12	3.86	12.48	6.48	207.82	509,024.74	461,943.31	47,081.43
45	5.40	38.93	4.86	126.73	3.59	11.82	6.03	192.81	530,590.58	497,137.64	33,452.92
50	5.00	36.89	4.54	117.52	3.33	10.79	5.58	178.51	551,835.87	542,831.01	(9,444.21)
55	4.80	35.81	4.34	112.65	3.19	10.33	5.36	171.38	585,573.87	587,526.10	(21,846.43)
60	4.50	33.29	4.07	105.61	2.99	9.59	5.02	160.88	618,028.30	639,521.11	(53,492.81)
65	4.20	31.00	3.79	98.34	2.79	8.92	4.68	148.61	633,704.10	680,981.41	(45,277.11)
70	3.90	28.85	3.53	91.53	2.59	8.39	4.35	139.26	651,908.43	730,441.53	(73,131.71)
75	3.64	26.23	3.28	85.03	2.42	7.84	4.01	121.76	671,378.47	781,381.88	(151,003.02)
80	3.40	22.19	3.11	79.41	2.26	7.24	3.71	107.12	684,163.52	836,281.87	(232,118.15)
85	3.28	19.68	2.84	74.43	2.11	6.73	3.47	94.98	702,878.11	893,201.84	(316,303.44)

2. VOLUME PROVIDED

ELEV	AREA	AVE. AREA	VOLUME	CUM. VOL.
524	21,841.17	20,292.64	85,625.93	
523	18,344.11	17,674.21	65,333.29	
522	16,401.31	15,213.06	47,659.08	
521	14,021.81	12,909.24	32,246.02	