

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								
		POND-2 8.22 AC.	POND-1 3.05AC.	DIRECT DISCH.	THRU LINE "A"	THRU LINE "B"										
C=	0.35	0.9	0.9	0.5	0.5	0.5										
I=	5.68	7.19	7.19	7.19	7.19	7.19										
A=	8.22	1.005	26.077	1.33	4.305	2.233										
Q=	16.34	6.50	168.74	4.78	15.48	8.03					Q(TOTAL) = 219.87 CFS					
FUTURE																
C=	0.9	0.9	0.9	0.5	0.5	0.5										
I=	7.19	7.19	7.19	7.19	7.19	7.19										
A=	8.22	1.005	26.077	1.33	4.305	2.233										
Q=	53.19	6.50	168.74	4.78	15.48	8.03										
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	T.DISCH	INFLOW	OUTFLOW	STORAGE						
10	7.19	53.19	6.50	168.74	4.78	15.48	8.03	256.72	154,034.82	131,924.67	22,110.16					
15	8.35	46.98	5.74	149.03	4.22	13.67	7.09	226.73	204,058.85	164,905.83	39,152.82					
20	5.68	42.02	5.14	133.31	3.78	12.23	6.34	202.81	243,370.73	197,887.00	45,483.74					
25	5.14	36.03	4.65	120.63	3.42	11.06	5.74	183.53	275,291.72	230,868.18	44,423.55					
30	4.70	34.77	4.25	110.31	3.13	10.12	5.25	167.82	302,011.07	263,849.33	38,161.74					
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	29.67	3.63	94.11	2.67	8.63	4.48	143.18	343,632.62	329,811.68	13,820.96					
45	3.73	27.59	3.37	87.54	2.48	8.03	4.16	133.16	359,593.11	362,792.63	3,199.72					
50	3.50	25.88	3.17	80.14	2.33	7.53	3.91	124.97	374,910.90	395,774.00	20,863.10					
55	3.29	24.34	2.98	77.21	2.19	7.08	3.67	117.47	387,657.87	428,755.16	41,097.29					
60	3.10	22.93	2.80	72.75	2.06	6.67	3.46	110.69	398,476.73	461,736.33	63,259.60					
70	2.78	20.57	2.51	65.24	1.85	5.98	3.10	99.26	416,900.92	527,698.64	110,787.74					
80	2.53	18.72	2.29	58.38	1.68	5.45	2.82	90.34	433,611.24	583,660.88	160,048.76					
90	2.32	17.16	2.10	54.45	1.54	4.99	2.59	82.84	447,322.26	658,623.33	212,301.06					

		1) COMMERCIAL			2) OFF-SITE			3) RESIDENTIAL								
		POND-2 8.22 AC.	POND-1 3.05AC.	DIRECT DISCH.	THRU LINE "A"	THRU LINE "B"										
C=	0.35	0.9	0.9	0.5	0.5	0.5										
I=	6.81	8.22	8.22	8.22	8.22	8.22										
A=	8.22	1.005	26.077	1.33	4.305	2.233										
Q=	19.02	7.43	192.92	5.47	17.69	9.18					Q(TOTAL) = 251.71 CFS					
FUTURE																
C=	0.9	0.9	0.9	0.5	0.5	0.5										
I=	8.22	8.22	8.22	8.22	8.22	8.22										
A=	8.22	1.005	26.077	1.33	4.305	2.233										
Q=	60.81	7.43	192.92	5.47	17.69	9.18										
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	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	151,024.25	25,076.75					
15	7.33	54.23	6.63	172.03	4.87	15.76	8.18	261.72	235,551.16	188,760.31	46,770.85					
20	6.61	48.90	5.98	155.13	4.40	14.23	7.38	236.02	283,218.41	226,536.38	56,682.03					
25	6.01	44.46	5.44	141.05	4.00	12.84	6.71	214.58	321,887.79	264,292.44	57,595.35					
30	5.50	40.69	4.97	129.08	3.66	11.84	6.14	196.38	363,487.42	302,048.51	61,438.92					
35	5.07	37.51	4.59	118.99	3.37	10.91	5.66	181.03	380,159.65	339,804.57	40,355.09					
40	4.69	34.70	4.24	110.07	3.12	10.10	5.24	167.46	401,904.48	377,560.63	24,343.86					
45	4.37	32.33	3.95	102.96	2.91	9.41	4.88	156.03	421,292.73	415,316.69	5,976.04					
50	4.08	30.18	3.69	95.75	2.71	8.78	4.56	145.68	437,038.99	453,072.21	16,033.76					
55	3.83	28.33	3.46	89.89	2.55	8.24	4.28	136.75	451,285.61	490,828.82	39,543.21					
60	3.60	26.63	3.26	84.49	2.39	7.75	4.02	128.54	462,747.17	528,584.88	65,837.71					
70	3.21	23.75	2.90	75.34	2.13	6.91	3.58	114.62	481,385.60	604,057.01	122,711.41					
80	2.90	21.45	2.62	68.06	1.93	6.24	3.24	103.58	497,024.74	679,609.13	182,584.40					
90	2.64	19.53	2.39	61.96	1.76	5.68	2.95	94.26	509,021.88	755,121.28	246,099.37					

		1) COMMERCIAL			2) OFF-SITE			3) RESIDENTIAL								
		POND-2 8.22 AC.	POND-1 3.05AC.	DIRECT DISCH.	THRU LINE "A"	THRU LINE "B"										
C=	0.35	0.9	0.9	0.5	0.5	0.5										
I=	7.92	9.01	9.01	9.01	9.01	9.01										
A=	8.22	1.005	26.077	1.33	4.305	2.233										
Q=	21.35	8.15	211.46	5.99	19.39	10.06					Q(TOTAL) = 276.40 CFS					
FUTURE																
C=	0.9	0.9	0.9	0.5	0.5	0.5										
I=	9.01	9.01	9.01	9.01	9.01	9.01										
A=	8.22	1.005	26.077	1.33	4.305	2.233										
Q=	66.66	8.15	211.46	5.99	19.39	10.06										
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	T.DISCH	INFLOW	OUTFLOW	STORAGE						
10	9.01	66.66	8.15	211.46	5.99	19.39	10.06	321.71	193,025.55	165,840.37	27,185.18					
15	8.16	60.37	7.38	191.51	5.43	17.56	9.11	291.36	262,223.40	207,300.44	54,922.93					
20	7.42	54.89	6.71	174.14	4.93	15.97	8.28	264.94	317,924.44	248,760.56	69,163.89					
25	6.77	50.08	6.12	158.89	4.50	14.57	7.56	241.73	362,592.40	290,220.65	72,371.75					
30	6.20	45.87	5.61	145.51	4.12	13.35	6.92	221.38	398,476.73	331,660.74	66,795.99					
35	5.7	42.17	5.16	133.78	3.79	12.27	6.36	203.52	427,398.43	373,140.83	54,257.59					
40	5.25	38.84	4.75	123.21	3.49	11.30	5.86	187.46	449,893.08	414,600.93	35,292.15					
45	4.86	35.95	4.40	114.08	3.23	10.46	5.43	173.53	468,531.51	436,061.02	32,470.49					
50	4.50	33.29	4.07	105.61	2.99	9.69	5.02	160.68	482,028.30	437,521.11	44,507.19					
55	4.19	31.00	3.79	98.34	2.79	9.02	4.68	149.61	493,704.10	436,981.21	56,722.89					
60	3.90	28.85	3.53	91.53	2.59	8.39	4.35	139.25	501,309.43	480,441.30	79,131.87					
70	3.41	25.23	3.08	80.03	2.27	7.34	3.81	121.76	511,378.47	663,361.48	151,983.02					
80	3.00	22.19	2.71	70.41	2.00	6.46	3.35	107.12	514,163.97	746,281.67	232,118.15					
90	2.66	19.68	2.41	62.43	1.77	5.73	2.97	94.98	512,878.11	829,201.85	316,323.74					

		1) COMMERCIAL			2) OFF-SITE			3) RESIDENTIAL								
		POND-2 8.22 AC.	POND-1 3.05AC.	DIRECT DISCH.	THRU LINE "A"	THRU LINE "B"										
C=	0.35	0.9	0.9	0.5	0.5	0.5										
I=	8.3	9.8	9.8	9.8	9.8	9.8										
A=	8.22	1.005	26.077	1.33*	4.305*	2.233**										
Q=	23.88	8.86	230.00	6.52	21.09	10.94					Q(TOTAL) = 301.30 CFS					
FUTURE																
C=	0.9	0.9	0.9	0.5	0.5	0.5										
I=	9.8	9.8	9.8	9.8	9.8	9.8										
A=	8.22	1.005	26.077	1.33	4.305	2.233										
Q=	72.50	8.86	230.00	6.52	21.09	10.94										
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	T.DISCH	INFLOW	OUTFLOW	STORAGE						
10	9.80	72.50	8.86	230.00	6.52	21.09	10.94	349.92	209,950.10	180,777.32	29,172.78					
15	9.00	66.58	8.14	211.22	5.99	19.37	10.05	321.35	289,216.98	225,971.66	63,245.33					
20	8.30	61.40	7.51	194.80	5.52	17.87	9.27	296.36	355,629.77	271,165.99	84,463.78					
25	7.50	55.48	6.78	176.02	4.99	16.14	8.37	267.79	401,690.25	316,360.52	85,329.73					
30	7.10	51.05	6.24	161.94	4.59	14.85	7.70	246.37	443,468.04	361,554.69	81,913.39					
35	6.40	47.35	5.79	150.20	4.26	13.78	7.15	228.52	479,885.95	406,748.98	73,136.97					
40	5.90	42.91	5.26	136.12	3.86	12.48	6.48	207.09	497,024.74	451,943.31	45,081.43					
45	5.40	38.95	4.88	126.73	3.59	11.62	6.03	192.81	520,590.56	497,137.64	23,452.92					
50	5.00	35.99	4.52	117.35	3.33	10.76	5.58	178.53	536,567.00	542,331.97	6,144.97					
55	4.80	35.51	4.34	112.65	3.19	10.33	5.36	171.39	565,579.87	587,526.30	21,948.43					
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