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DETENTION REPORT

COUNTRYSIDE CARPET

Prepared For:

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Prepared By:

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February 2006

Detention Calculations:

This site is located is O'Fallon, Missouri at the convergence of Tom Ginnever Avenue and Pearl Drive. This site is planned to be a carpet store. The site is 10.92 acres. The detention will be handled with an above ground detention basin located to the east of the site. The basin is designed to serve 8.06 acres. The 2 yr sediment storage required is 2,337.4 cf. See the attached chart for calculations.

The water shed was evaluated using the rational method for the post-developed conditions. Following are the criteria which were used to develop the models:

Pre-Developed:

2yr – 20 min
Q = (1.15)(10.92 AC) = **12.56 cfs**

15 yr – 20 min
Q = (1.87)(10.92 AC) = **20.42 cfs**

25 yr – 20 min
Q = (2.31)(10.92 AC) = **25.23 cfs**

100 yr – 20 min
Q = (2.95)(10.92 AC) = **32.21 cfs**

Post-developed:

* Flow Into Basin

2 yr – 20 min
(2.39)(8.06 AC) = **19.26 cfs**

15 yr – 20 min
(3.85)(8.06 AC) = **31.03 cfs**

25 yr – 20 min
(4.75)(8.06 AC) = **38.29 cfs**

100 yr – 20 min
(6.08)(8.06 AC) = **49.00 cfs**

* Flow Offsite

2 yr – 20 min
(2.39)(2.86 AC) = **6.84 cfs**

15 yr – 20 min
(3.85)(2.86 AC) = **11.01 cfs**

25 yr – 20 min
(4.75)(2.86 AC) = **13.59 cfs**

100 yr – 20 min
(6.08)(2.86 AC) = **17.39 cfs**

Allowable Release Rate

2 yr – 20 min
= **5.72 cfs**

15 yr – 20 min
= **9.41 cfs**

25 yr – 20 min
= **11.64 cfs**

100 yr – 20 min
= **14.82 cfs**

Peak Outflow

2 yr – 20 min
Q = 5.61 cfs

15 yr – 20 min
Q = 6.60 cfs

25 yr – 20 min
Q = 7.76 cfs

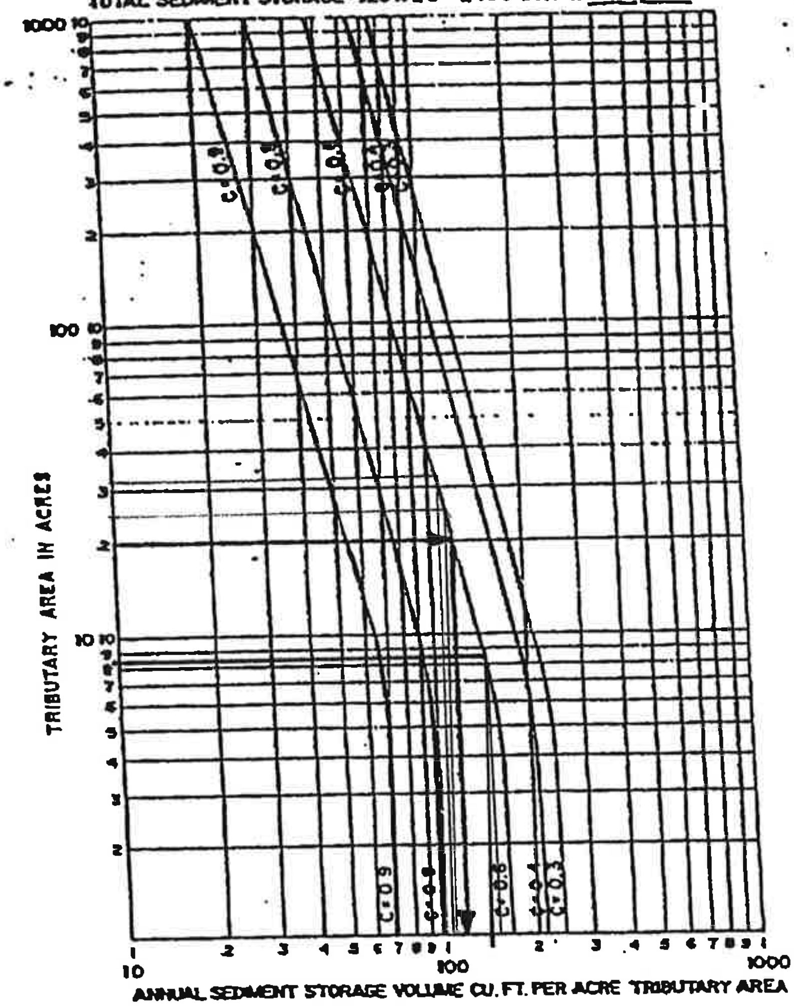
100 yr – 20 min
Q = 8.99 cfs

ORIGINAL

2 YEAR SEDIMENT STORAGE REQUIRED

EXAMPLE:

TRIBUTARY AREA = 20 ACRES
RATIONAL METHOD RUNOFF COEFFICIENT "C" = 0.6
SEDIMENT STORAGE = 120 CU. FT. PER ACRE PER YEAR
TOTAL SEDIMENT STORAGE = 120 X 20 = 2400 CU. FT. PER YEAR.



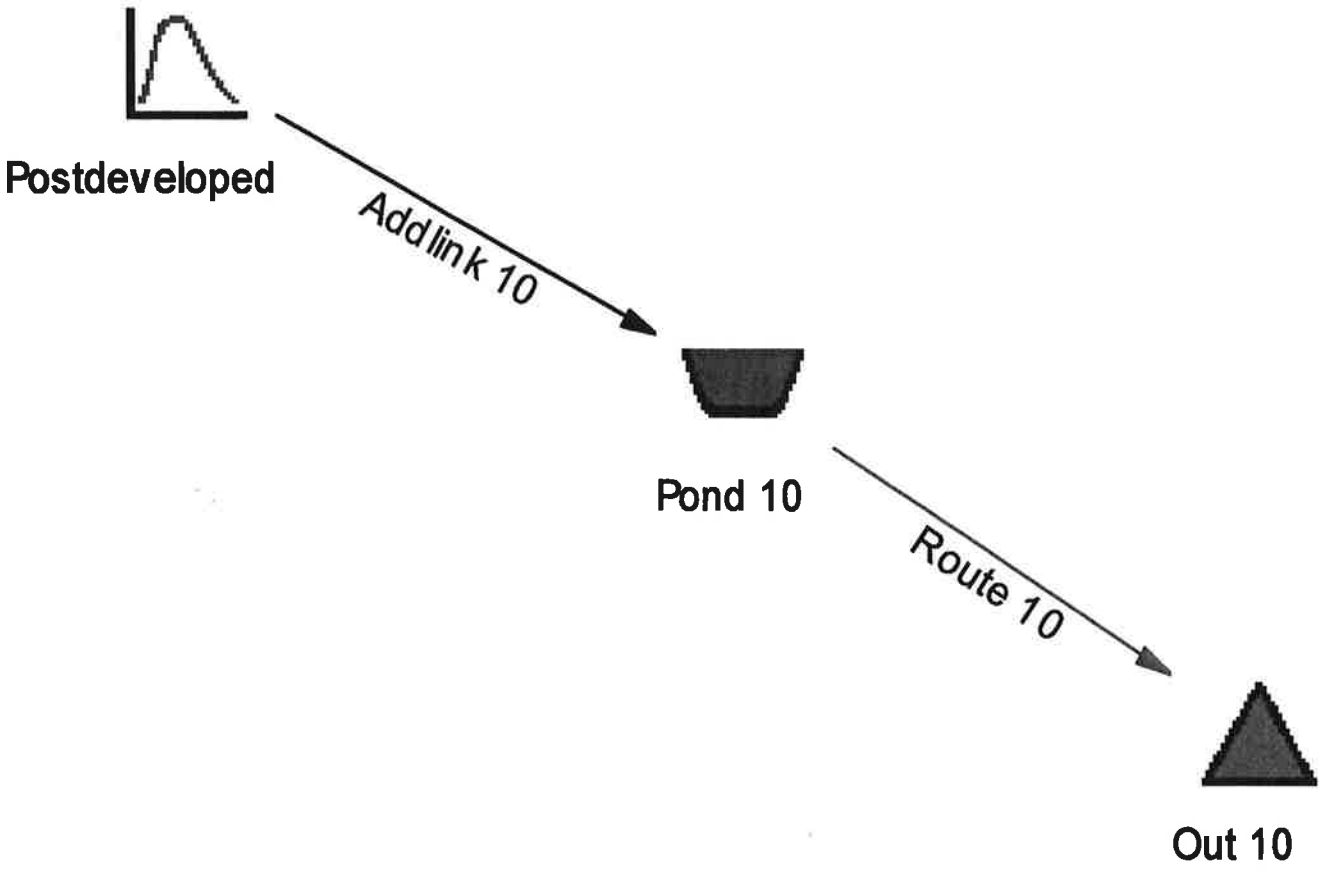
ANNUAL SEDIMENT STORAGE

FIG. 6

C = 0.6
A = 8.06 AC
STORAGE = 145 CF/AC/YR
TOTAL STORAGE = (145)(8.06 AC)(2 YR)

= 2337.4 CF

POSTDEVELOPED



Job File: \\2serverprs\PondPack\Katie-jobs\Countryside\POSTDEVELOPED 2.01.06.PPW
Rain Dir: \\2serverprs\PondPack\Katie-jobs\Countryside\

JOB TITLE
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Project Date: 2/1/2006
Project Engineer: Katie Lyons
Project Title: Countryside
Project Comments:

Table of Contents (continued)

MASTER DESIGN STORM SUMMARY

Hydrograph Queue Only Network

MASTER NETWORK SUMMARY
SCS Unit Hydrograph Method
Hydrograph File Import Option Used For 1 node(s)

(*Node=Outfall; +Node=Diversion;)
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Node ID		Type	Return Event	HYG Vol ac-ft	Trun	Qpeak min	Qpeak cfs	Max WSEL ft	Max Pond Storage ac-ft
*OUT 10		JCT	2	.531		23.00	5.61		
*OUT 10		JCT	15	.855		24.00	6.60		
*OUT 10		JCT	25	1.055		24.00	7.76		
*OUT 10		JCT	100	1.350		24.00	8.99		
POND 10	IN	POND	2	.531		5.00	19.26		
POND 10	IN	POND	15	.855		5.00	31.03		
POND 10	IN	POND	25	1.055		5.00	38.29		
POND 10	IN	POND	100	1.350		5.00	49.00		
POND 10	OUT	POND	2	.531		23.00	5.61	485.03	.389
POND 10	OUT	POND	15	.855		24.00	6.60	486.56	.688
POND 10	OUT	POND	25	1.055		24.00	7.76	487.34	.873
POND 10	OUT	POND	100	1.350		24.00	8.99	488.35	1.143
POSTDEVELOPED		HYG	2	.531		5.00	19.26		
POSTDEVELOPED		HYG	15	.855		5.00	31.03		
POSTDEVELOPED		HYG	25	1.055		5.00	38.29		
POSTDEVELOPED		HYG	100	1.350		5.00	49.00		

HYG file =
HYG ID = 2YR-20MIN
HYG Tag = 2YR

Peak Discharge =	19.26 cfs
Time to Peak =	5.00 min
HYG Volume =	.531 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	.00	3.85	7.71	11.56	15.41
5.00	19.26	19.26	19.26	19.26	19.26
10.00	19.26	19.26	19.26	19.26	19.26
15.00	19.26	19.26	19.26	19.26	19.26
20.00	19.26	15.41	11.56	7.71	3.85
25.00	.00				

HYG file =
HYG ID = 15YR-20MIN
HYG Tag = 15YR

Peak Discharge =	31.03 cfs
Time to Peak =	5.00 min
HYG Volume =	.855 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	.00	6.21	12.42	18.63	24.83
5.00	31.03	31.03	31.03	31.03	31.03
10.00	31.03	31.03	31.03	31.03	31.03
15.00	31.03	31.03	31.03	31.03	31.03
20.00	31.03	24.83	18.63	12.42	6.21
25.00	.00				

HYG file =
HYG ID = 25YR-20MIN
HYG Tag = 25YR

Peak Discharge =	38.29 cfs
Time to Peak =	5.00 min
HYG Volume =	1.055 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	.00	7.66	15.32	22.97	30.63
5.00	38.29	38.29	38.29	38.29	38.29
10.00	38.29	38.29	38.29	38.29	38.29
15.00	38.29	38.29	38.29	38.29	38.29
20.00	38.29	30.63	22.97	15.32	7.66
25.00	.00				

HYG file =
HYG ID = 100YR-20MIN
HYG Tag = 100YR

Peak Discharge =	49.00 cfs
Time to Peak =	5.00 min
HYG Volume =	1.350 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	.00	9.79	19.59	29.38	39.18
5.00	49.00	49.00	49.00	49.00	49.00
10.00	49.00	49.00	49.00	49.00	49.00
15.00	49.00	49.00	49.00	49.00	49.00
20.00	49.00	39.18	29.38	19.59	9.79
25.00	.00				

TIME vs. ELEVATION (ft)

Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	480.79	481.25	481.54	481.80	482.03
5.00	482.29	482.55	482.78	483.00	483.20
10.00	483.39	483.56	483.73	483.89	484.04
15.00	484.18	484.32	484.45	484.58	484.70
20.00	484.82	484.93	484.99	485.03	485.03
25.00	485.00	484.95	484.90	484.86	484.81
30.00	484.76	484.72	484.67	484.62	484.57
35.00	484.52	484.48	484.43	484.38	484.33
40.00	484.28	484.23	484.18	484.14	484.09
45.00	484.04	483.99	483.94	483.89	483.84
50.00	483.79	483.74	483.68	483.63	483.58
55.00	483.53	483.48	483.43	483.37	483.32
60.00	483.27	483.22	483.16	483.11	483.06
65.00	483.01	482.95	482.90	482.85	482.79
70.00	482.74	482.68	482.63	482.58	482.52
75.00	482.47	482.42	482.36	482.31	482.26
80.00	482.20	482.15	482.10	482.05	482.00
85.00	481.94	481.89	481.82	481.76	481.69
90.00	481.61	481.52	481.41	481.28	481.13
95.00	480.95	480.79			

TIME vs. ELEVATION (ft)

Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	480.79	481.35	481.71	482.01	482.34
5.00	482.72	483.10	483.44	483.74	484.02
10.00	484.28	484.52	484.75	484.97	485.18
15.00	485.38	485.57	485.75	485.92	486.09
20.00	486.25	486.39	486.49	486.55	486.56
25.00	486.54	486.50	486.46	486.42	486.38
30.00	486.33	486.29	486.25	486.21	486.17
35.00	486.12	486.08	486.04	486.00	485.95
40.00	485.91	485.87	485.82	485.78	485.74
45.00	485.69	485.65	485.61	485.56	485.52
50.00	485.47	485.43	485.38	485.34	485.29
55.00	485.25	485.20	485.16	485.11	485.07
60.00	485.02	484.97	484.93	484.88	484.83
65.00	484.79	484.74	484.69	484.64	484.60
70.00	484.55	484.50	484.45	484.40	484.36
75.00	484.31	484.26	484.21	484.16	484.11
80.00	484.06	484.01	483.96	483.91	483.86
85.00	483.81	483.76	483.71	483.66	483.61
90.00	483.56	483.51	483.45	483.40	483.35
95.00	483.30	483.24	483.19	483.14	483.09
100.00	483.03	482.98	482.93	482.87	482.82
105.00	482.77	482.71	482.66	482.60	482.55
110.00	482.50	482.44	482.39	482.34	482.28
115.00	482.23	482.18	482.13	482.07	482.02
120.00	481.97	481.91	481.85	481.79	481.72
125.00	481.65	481.56	481.47	481.35	481.21
130.00	481.06	480.85	480.79		

TIME vs. ELEVATION (ft)

Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	480.79	481.40	481.79	482.13	482.52
5.00	482.97	483.41	483.80	484.14	484.46
10.00	484.76	485.04	485.30	485.54	485.78
15.00	486.00	486.21	486.42	486.62	486.81
20.00	487.00	487.15	487.26	487.32	487.34
25.00	487.32	487.28	487.24	487.20	487.15
30.00	487.11	487.07	487.03	486.99	486.95
35.00	486.91	486.87	486.83	486.79	486.75
40.00	486.71	486.67	486.62	486.58	486.54
45.00	486.50	486.46	486.42	486.38	486.34
50.00	486.29	486.25	486.21	486.17	486.13
55.00	486.08	486.04	486.00	485.96	485.91
60.00	485.87	485.83	485.78	485.74	485.70
65.00	485.65	485.61	485.57	485.52	485.48
70.00	485.43	485.39	485.34	485.30	485.25
75.00	485.21	485.16	485.11	485.07	485.02
80.00	484.98	484.93	484.88	484.84	484.79
85.00	484.74	484.70	484.65	484.60	484.55
90.00	484.50	484.46	484.41	484.36	484.31
95.00	484.26	484.21	484.16	484.11	484.07
100.00	484.02	483.97	483.92	483.87	483.82
105.00	483.76	483.71	483.66	483.61	483.56
110.00	483.51	483.46	483.40	483.35	483.30
115.00	483.25	483.20	483.14	483.09	483.04
120.00	482.98	482.93	482.88	482.82	482.77
125.00	482.72	482.66	482.61	482.55	482.50
130.00	482.45	482.39	482.34	482.29	482.23
135.00	482.18	482.13	482.08	482.02	481.97
140.00	481.92	481.86	481.80	481.73	481.65
145.00	481.57	481.47	481.36	481.22	481.07
150.00	480.86	480.79			

TIME vs. ELEVATION (ft)

Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	480.79	481.46	481.89	482.29	482.77
5.00	483.31	483.82	484.27	484.68	485.05
10.00	485.39	485.71	486.01	486.29	486.56
15.00	486.82	487.06	487.30	487.52	487.74
20.00	487.95	488.12	488.25	488.32	488.35
25.00	488.33	488.29	488.24	488.20	488.16
30.00	488.11	488.07	488.03	487.99	487.94
35.00	487.90	487.86	487.81	487.77	487.73
40.00	487.68	487.64	487.60	487.55	487.51
45.00	487.47	487.43	487.38	487.34	487.30
50.00	487.26	487.21	487.17	487.13	487.09
55.00	487.05	487.01	486.97	486.93	486.88
60.00	486.84	486.80	486.76	486.72	486.68
65.00	486.64	486.60	486.56	486.52	486.48
70.00	486.44	486.39	486.35	486.31	486.27
75.00	486.23	486.19	486.14	486.10	486.06
80.00	486.02	485.97	485.93	485.89	485.84
85.00	485.80	485.76	485.71	485.67	485.63
90.00	485.58	485.54	485.49	485.45	485.41
95.00	485.36	485.32	485.27	485.22	485.18
100.00	485.13	485.09	485.04	485.00	484.95
105.00	484.90	484.86	484.81	484.76	484.71
110.00	484.67	484.62	484.57	484.52	484.48
115.00	484.43	484.38	484.33	484.28	484.23
120.00	484.18	484.13	484.09	484.04	483.99
125.00	483.94	483.89	483.84	483.79	483.73
130.00	483.68	483.63	483.58	483.53	483.48
135.00	483.43	483.37	483.32	483.27	483.22
140.00	483.16	483.11	483.06	483.00	482.95
145.00	482.90	482.84	482.79	482.74	482.68
150.00	482.63	482.58	482.52	482.47	482.42
155.00	482.36	482.31	482.26	482.20	482.15
160.00	482.10	482.05	481.99	481.94	481.88
165.00	481.82	481.76	481.69	481.60	481.51
170.00	481.41	481.28	481.13	480.95	480.79

TIME vs. VOLUME (ac-ft)

Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	.000	.002	.008	.018	.033
5.00	.053	.075	.096	.117	.138
10.00	.159	.180	.200	.220	.240
15.00	.260	.279	.299	.318	.337
20.00	.356	.373	.384	.389	.389
25.00	.384	.377	.369	.361	.354
30.00	.346	.339	.332	.324	.317
35.00	.310	.302	.295	.288	.281
40.00	.274	.267	.260	.254	.247
45.00	.240	.233	.227	.220	.214
50.00	.207	.201	.195	.188	.182
55.00	.176	.170	.164	.158	.152
60.00	.146	.140	.135	.129	.124
65.00	.118	.113	.108	.102	.097
70.00	.092	.087	.082	.077	.073
75.00	.068	.063	.059	.054	.050
80.00	.046	.042	.038	.034	.030
85.00	.026	.023	.019	.016	.013
90.00	.010	.007	.004	.002	.001
95.00	.000	.000			

TIME vs. VOLUME (ac-ft)

Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	.000	.003	.013	.031	.057
5.00	.091	.128	.165	.202	.238
10.00	.274	.310	.345	.380	.415
15.00	.450	.485	.519	.553	.587
20.00	.621	.651	.672	.684	.688
25.00	.683	.674	.665	.656	.647
30.00	.638	.629	.620	.612	.603
35.00	.594	.585	.577	.568	.560
40.00	.551	.542	.534	.526	.517
45.00	.509	.500	.492	.484	.476
50.00	.468	.459	.451	.443	.435
55.00	.427	.419	.412	.404	.396
60.00	.388	.381	.373	.365	.358
65.00	.350	.343	.335	.328	.321
70.00	.313	.306	.299	.292	.285
75.00	.278	.271	.264	.257	.250
80.00	.243	.237	.230	.224	.217
85.00	.211	.204	.198	.191	.185
90.00	.179	.173	.167	.161	.155
95.00	.149	.143	.138	.132	.127
100.00	.121	.116	.110	.105	.100
105.00	.095	.090	.085	.080	.075
110.00	.070	.066	.061	.057	.052
115.00	.048	.044	.040	.036	.032
120.00	.028	.024	.021	.017	.014
125.00	.011	.008	.006	.003	.001
130.00	.000	.000	.000		

TIME vs. VOLUME (ac-ft)

Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	.000	.004	.017	.040	.072
5.00	.115	.162	.208	.254	.300
10.00	.346	.391	.436	.480	.525
15.00	.569	.613	.657	.701	.744
20.00	.787	.825	.852	.867	.873
25.00	.867	.857	.846	.836	.826
30.00	.816	.806	.796	.786	.776
35.00	.767	.757	.748	.739	.730
40.00	.720	.711	.702	.693	.684
45.00	.675	.666	.657	.648	.639
50.00	.630	.621	.612	.603	.595
55.00	.586	.577	.569	.560	.552
60.00	.543	.535	.526	.518	.509
65.00	.501	.493	.484	.476	.468
70.00	.460	.452	.444	.436	.428
75.00	.420	.412	.404	.396	.389
80.00	.381	.373	.366	.358	.351
85.00	.343	.336	.328	.321	.314
90.00	.307	.299	.292	.285	.278
95.00	.271	.264	.257	.251	.244
100.00	.237	.231	.224	.217	.211
105.00	.205	.198	.192	.186	.179
110.00	.173	.167	.161	.155	.150
115.00	.144	.138	.132	.127	.121
120.00	.116	.111	.105	.100	.095
125.00	.090	.085	.080	.075	.071
130.00	.066	.061	.057	.053	.048
135.00	.044	.040	.036	.032	.028
140.00	.025	.021	.018	.014	.011
145.00	.008	.006	.003	.002	.000
150.00	.000	.000			

TIME vs. VOLUME (ac-ft)

Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	.000	.005	.023	.052	.095
5.00	.150	.212	.272	.333	.393
10.00	.452	.512	.571	.629	.688
15.00	.746	.804	.861	.918	.974
20.00	1.030	1.079	1.114	1.135	1.143
25.00	1.138	1.125	1.113	1.101	1.089
30.00	1.077	1.065	1.053	1.041	1.029
35.00	1.017	1.006	.994	.982	.971
40.00	.960	.948	.937	.926	.915
45.00	.904	.893	.882	.871	.861
50.00	.850	.840	.830	.820	.810
55.00	.800	.790	.780	.771	.761
60.00	.752	.743	.733	.724	.715
65.00	.706	.697	.687	.678	.669
70.00	.660	.651	.642	.633	.625
75.00	.616	.607	.598	.590	.581
80.00	.572	.564	.555	.546	.538
85.00	.530	.521	.513	.504	.496
90.00	.488	.480	.471	.463	.455
95.00	.447	.439	.431	.423	.415
100.00	.407	.400	.392	.384	.376
105.00	.369	.361	.354	.346	.339
110.00	.331	.324	.317	.309	.302
115.00	.295	.288	.281	.274	.267
120.00	.260	.253	.247	.240	.233
125.00	.227	.220	.214	.207	.201
130.00	.194	.188	.182	.176	.170
135.00	.164	.158	.152	.146	.140
140.00	.135	.129	.124	.118	.113
145.00	.107	.102	.097	.092	.087
150.00	.082	.077	.072	.068	.063
155.00	.059	.054	.050	.046	.042
160.00	.038	.034	.030	.026	.023
165.00	.019	.016	.013	.009	.007
170.00	.004	.002	.001	.000	.000

Elevation (ft)	Planimeter (sq.in)	Area (sq.ft)	A1+A2+sqr(A1*A2) (sq.ft)	Volume (ac-ft)	Volume Sum (ac-ft)
480.79	-----	1	0	.000	.000
482.00	-----	3216	3274	.030	.030
484.00	-----	5833	13380	.205	.235
486.00	-----	8807	21807	.334	.569
488.00	-----	12008	31099	.476	1.045
490.00	-----	15434	41056	.628	1.673
492.00	-----	19087	51685	.791	2.464

POND VOLUME EQUATIONS

* Incremental volume computed by the Conic Method for Reservoir Volumes.

Volume = (1/3) * (EL2-EL1) * (Area1 + Area2 + sq.rt.(Area1*Area2))

where: EL1, EL2 = Lower and upper elevations of the increment
Area1,Area2 = Areas computed for EL1, EL2, respectively
Volume = Incremental volume between EL1 and EL2

REQUESTED POND WS ELEVATIONS:

Min. Elev.= 480.79 ft
Increment = .10 ft
Max. Elev.= 492.00 ft

****
OUTLET CONNECTIVITY
****

---> Forward Flow Only (UpStream to DnStream)
<--- Reverse Flow Only (DnStream to UpStream)
<---> Forward and Reverse Both Allowed

Structure	No.		Outfall	E1, ft	E2, ft
Weir-Rectangular	LW	--->	TW	480.790	481.290
Orifice-Area	LO	--->	TW	481.290	492.000
Orifice-Area	UO	--->	TW	487.250	492.000
Weir-Rectangular	UW	--->	TW	486.750	487.250
Weir-Rectangular	OF	--->	TW	489.000	492.000

TW SETUP, DS Channel

OUTLET STRUCTURE INPUT DATA

Structure ID = LW
Structure Type = Weir-Rectangular

# of Openings	=	1
Crest Elev.	=	480.79 ft
Weir Length	=	1.17 ft
Weir Coeff.	=	3.000000

Weir TW effects (Use adjustment equation)

Structure ID = LO
Structure Type = Orifice-Area

# of Openings	=	1
Invert Elev.	=	480.79 ft
Area	=	.5835 sq.ft
Top of Orifice	=	481.29 ft
Datum Elev.	=	481.04 ft
Orifice Coeff.	=	.600

Structure ID = UO
Structure Type = Orifice-Area

# of Openings	=	1
Invert Elev.	=	486.75 ft
Area	=	.2500 sq.ft
Top of Orifice	=	487.25 ft
Datum Elev.	=	487.00 ft
Orifice Coeff.	=	.600

OUTLET STRUCTURE INPUT DATA

Structure ID = UW
Structure Type = Weir-Rectangular

# of Openings = 1
Crest Elev. = 486.75 ft
Weir Length = .50 ft
Weir Coeff. = 3.000000

Weir TW effects (Use adjustment equation)

Structure ID = OF
Structure Type = Weir-Rectangular

# of Openings = 1
Crest Elev. = 489.00 ft
Weir Length = 4.00 ft
Weir Coeff. = 3.000000

Weir TW effects (Use adjustment equation)

Structure ID = TW
Structure Type = TW SETUP, DS Channel

FREE OUTFALL CONDITIONS SPECIFIED

CONVERGENCE TOLERANCES...
Maximum Iterations= 40
Min. TW tolerance = .01 ft
Max. TW tolerance = .01 ft
Min. HW tolerance = .01 ft
Max. HW tolerance = .01 ft
Min. Q tolerance = .00 cfs
Max. Q tolerance = .00 cfs

LEVEL POOL ROUTING DATA

HYG Dir = \\2serverprs\PondPack\Katie-jobs\Countryside\
Inflow HYG file = NONE STORED - POND 10 IN 2
Outflow HYG file = NONE STORED - POND 10 OUT 2

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev = 480.79 ft
Starting Volume = .000 ac-ft
Starting Outflow = .00 cfs
Starting Infiltr. = .00 cfs
Starting Total Qout= .00 cfs
Time Increment = 1.00 min

Elevation ft	Outflow cfs	Storage ac-ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + O cfs
480.79	.00	.000	1	.00	.00	.00
480.89	.11	.000	31	.00	.11	.15
480.99	.31	.000	104	.00	.31	.57
481.09	.58	.001	219	.00	.58	1.36
481.19	.89	.001	377	.00	.89	2.65
481.29	1.40	.002	577	.00	1.40	4.75
481.39	1.66	.004	819	.00	1.66	7.32
481.49	1.88	.006	1104	.00	1.88	10.74
481.59	2.08	.009	1431	.00	2.08	15.15
481.69	2.26	.013	1801	.00	2.26	20.71
481.79	2.43	.017	2213	.00	2.43	27.55
481.89	2.59	.023	2667	.00	2.59	35.83
481.99	2.74	.030	3164	.00	2.74	45.69
482.09	2.88	.037	3317	.00	2.88	56.69
482.19	3.01	.045	3431	.00	3.01	68.07
482.29	3.14	.053	3548	.00	3.14	79.83
482.39	3.26	.061	3666	.00	3.26	91.98
482.49	3.38	.070	3786	.00	3.38	104.51
482.59	3.50	.078	3908	.00	3.50	117.45
482.69	3.61	.088	4031	.00	3.61	130.79

LEVEL POOL ROUTING DATA

HYG Dir = \\2serverprs\PondPack\Katie-jobs\Countryside\
Inflow HYG file = NONE STORED - POND 10 IN 2
Outflow HYG file = NONE STORED - POND 10 OUT 2

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev = 480.79 ft
Starting Volume = .000 ac-ft
Starting Outflow = .00 cfs
Starting Infiltr. = .00 cfs
Starting Total Qout= .00 cfs
Time Increment = 1.00 min

Elevation ft	Outflow cfs	Storage ac-ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + O cfs
482.79	3.72	.097	4157	.00	3.72	144.55
482.89	3.82	.107	4285	.00	3.82	158.72
482.99	3.92	.117	4415	.00	3.92	173.32
483.09	4.02	.127	4546	.00	4.02	188.35
483.19	4.12	.138	4680	.00	4.12	203.83
483.29	4.21	.148	4815	.00	4.21	219.75
483.39	4.31	.160	4953	.00	4.31	236.12
483.49	4.40	.171	5092	.00	4.40	252.96
483.59	4.48	.183	5233	.00	4.48	270.25
483.69	4.57	.195	5377	.00	4.57	288.02
483.79	4.66	.208	5522	.00	4.66	306.27
483.89	4.74	.221	5669	.00	4.74	325.01
483.99	4.82	.234	5818	.00	4.82	344.23
484.09	4.90	.247	5954	.00	4.90	363.93
484.19	4.98	.261	6089	.00	4.98	384.08
484.29	5.06	.275	6226	.00	5.06	404.69
484.39	5.14	.290	6365	.00	5.14	425.75
484.49	5.22	.304	6505	.00	5.22	447.28
484.59	5.29	.320	6647	.00	5.29	469.27
484.69	5.37	.335	6790	.00	5.37	491.74

LEVEL POOL ROUTING DATA

HYG Dir = \\2serverprs\PondPack\Katie-jobs\Countryside\
Inflow HYG file = NONE STORED - POND 10 IN 2
Outflow HYG file = NONE STORED - POND 10 OUT 2

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	480.79 ft
Starting Volume	=	.000 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	1.00 min

Elevation ft	Outflow cfs	Storage ac-ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + O cfs
484.79	5.44	.351	6935	.00	5.44	514.69
484.89	5.51	.367	7081	.00	5.51	538.12
484.99	5.58	.383	7229	.00	5.58	562.04
485.09	5.65	.400	7378	.00	5.65	586.45
485.19	5.72	.417	7529	.00	5.72	611.37
485.29	5.79	.435	7681	.00	5.79	636.79
485.39	5.86	.452	7835	.00	5.86	662.72
485.49	5.92	.471	7991	.00	5.92	689.16
485.59	5.99	.489	8148	.00	5.99	716.12
485.69	6.06	.508	8306	.00	6.06	743.61
485.79	6.12	.527	8466	.00	6.12	771.63
485.89	6.18	.547	8628	.00	6.18	800.18
485.99	6.25	.567	8791	.00	6.25	829.28
486.09	6.31	.587	8940	.00	6.31	858.89
486.19	6.37	.608	9090	.00	6.37	889.00
486.29	6.43	.629	9240	.00	6.43	919.61
486.39	6.50	.650	9392	.00	6.50	950.73
486.49	6.56	.672	9545	.00	6.56	982.36
486.59	6.62	.694	9700	.00	6.62	1014.48
486.69	6.68	.717	9855	.00	6.68	1047.14

LEVEL POOL ROUTING DATA

HYG Dir = \\2serverprs\PondPack\Katie-jobs\Countryside\
Inflow HYG file = NONE STORED - POND 10 IN 2
Outflow HYG file = NONE STORED - POND 10 OUT 2

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	480.79 ft
Starting Volume	=	.000 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	1.00 min

Elevation ft	Outflow cfs	Storage ac-ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + O cfs
486.75	6.71	.730	9949	.00	6.71	1066.98
486.79	6.75	.739	10012	.00	6.75	1080.32
486.89	6.87	.763	10170	.00	6.87	1114.09
486.99	7.03	.786	10330	.00	7.03	1148.41
487.09	7.21	.810	10490	.00	7.21	1183.28
487.19	7.40	.834	10652	.00	7.40	1218.72
487.29	7.67	.859	10815	.00	7.67	1254.76
487.39	7.83	.884	10979	.00	7.83	1291.25
487.49	7.97	.909	11145	.00	7.97	1328.27
487.59	8.11	.935	11311	.00	8.11	1365.82
487.69	8.24	.961	11479	.00	8.24	1403.94
487.79	8.37	.988	11649	.00	8.37	1442.61
487.89	8.49	1.015	11819	.00	8.49	1481.85
487.99	8.60	1.042	11991	.00	8.60	1521.65
488.09	8.71	1.070	12153	.00	8.71	1561.99
488.19	8.82	1.098	12315	.00	8.82	1602.88
488.29	8.93	1.126	12478	.00	8.93	1644.31
488.39	9.03	1.155	12642	.00	9.03	1686.29
488.49	9.13	1.184	12808	.00	9.13	1728.81
488.59	9.23	1.214	12974	.00	9.23	1771.87

LEVEL POOL ROUTING DATA

HYG Dir = \\2serverprs\PondPack\Katie-jobs\Countryside\
Inflow HYG file = NONE STORED - POND 10 IN 2
Outflow HYG file = NONE STORED - POND 10 OUT 2

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	480.79 ft
Starting Volume	=	.000 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	1.00 min

Elevation ft	Outflow cfs	Storage ac-ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + O cfs
488.69	9.33	1.244	13142	.00	9.33	1815.49
488.79	9.43	1.274	13310	.00	9.43	1859.68
488.89	9.52	1.305	13480	.00	9.52	1904.42
488.99	9.62	1.336	13650	.00	9.62	1949.74
489.00	9.63	1.339	13667	.00	9.63	1954.29
489.09	10.03	1.368	13822	.00	10.03	1995.93
489.19	10.79	1.400	13995	.00	10.79	2043.05
489.29	11.76	1.432	14169	.00	11.76	2090.96
489.39	12.90	1.465	14344	.00	12.90	2139.62
489.49	14.18	1.498	14520	.00	14.18	2189.01
489.59	15.59	1.531	14697	.00	15.59	2239.10
489.69	17.11	1.565	14875	.00	17.11	2289.91
489.79	18.74	1.600	15054	.00	18.74	2341.43
489.89	20.48	1.634	15235	.00	20.48	2393.65
489.99	22.30	1.670	15416	.00	22.30	2446.56
490.09	24.22	1.705	15590	.00	24.22	2500.15
490.19	26.22	1.741	15765	.00	26.22	2554.41
490.29	28.31	1.778	15940	.00	28.31	2609.34
490.39	30.47	1.814	16116	.00	30.47	2664.93
490.49	32.71	1.852	16293	.00	32.71	2721.19

LEVEL POOL ROUTING DATA

HYG Dir = \\2serverprs\PondPack\Katie-jobs\Countryside\
Inflow HYG file = NONE STORED - POND 10 IN 2
Outflow HYG file = NONE STORED - POND 10 OUT 2

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	480.79 ft
Starting Volume	=	.000 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	1.00 min

Elevation ft	Outflow cfs	Storage ac-ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + O cfs
490.59	35.02	1.889	16471	.00	35.02	2778.09
490.69	37.40	1.927	16651	.00	37.40	2835.68
490.79	39.85	1.966	16831	.00	39.85	2893.93
490.89	42.37	2.004	17012	.00	42.37	2952.86
490.99	44.95	2.044	17194	.00	44.95	3012.45
491.09	47.59	2.083	17377	.00	47.59	3072.70
491.19	50.30	2.124	17561	.00	50.30	3133.64
491.29	53.07	2.164	17746	.00	53.07	3195.26
491.39	55.89	2.205	17932	.00	55.89	3257.55
491.49	58.78	2.246	18119	.00	58.78	3320.52
491.59	61.72	2.288	18307	.00	61.72	3384.16
491.69	64.71	2.330	18495	.00	64.71	3448.49
491.79	67.76	2.373	18685	.00	67.76	3513.51
491.89	70.87	2.416	18876	.00	70.87	3579.22
491.99	74.02	2.460	19068	.00	74.02	3645.62
492.00	74.34	2.464	19087	.00	74.34	3652.28

LEVEL POOL ROUTING SUMMARY

HYG Dir = \\2serverprs\PondPack\Katie-jobs\Countryside\
Inflow HYG file = NONE STORED - POND 10 IN 2
Outflow HYG file = NONE STORED - POND 10 OUT 2

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	480.79 ft
Starting Volume	=	.000 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow	=	19.26 cfs	at	5.00 min
Peak Outflow	=	5.61 cfs	at	23.00 min
Peak Elevation	=	485.03 ft		
Peak Storage	=	.389 ac-ft		

MASS BALANCE (ac-ft)

+ Initial Vol	=	.000
+ HYG Vol IN	=	.531
- Infiltration	=	.000
- HYG Vol OUT	=	.531
- Retained Vol	=	.000
Unrouted Vol	=	-.000 ac-ft (.000% of Inflow Volume)

POND ROUTED TOTAL OUTFLOW HYG...
HYG file =
HYG ID = POND 10 OUT
HYG Tag = 2

Peak Discharge =	5.61 cfs
Time to Peak =	23.00 min
HYG Volume =	.531 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	.00	1.18	1.99	2.45	2.80
5.00	3.14	3.45	3.71	3.93	4.13
10.00	4.30	4.46	4.60	4.74	4.86
15.00	4.98	5.08	5.19	5.28	5.38
20.00	5.46	5.54	5.58	5.61	5.61
25.00	5.59	5.55	5.52	5.49	5.45
30.00	5.42	5.38	5.35	5.31	5.28
35.00	5.24	5.21	5.17	5.13	5.09
40.00	5.06	5.02	4.98	4.94	4.90
45.00	4.86	4.82	4.78	4.74	4.70
50.00	4.65	4.61	4.57	4.52	4.48
55.00	4.43	4.39	4.34	4.29	4.24
60.00	4.19	4.14	4.09	4.04	3.99
65.00	3.94	3.88	3.83	3.77	3.72
70.00	3.66	3.60	3.54	3.48	3.42
75.00	3.36	3.29	3.23	3.16	3.10
80.00	3.03	2.96	2.89	2.82	2.75
85.00	2.66	2.58	2.48	2.38	2.26
90.00	2.11	1.93	1.70	1.36	.69
95.00	.23	.00			

LEVEL POOL ROUTING SUMMARY

HYG Dir = \\2serverprs\PondPack\Katie-jobs\Countryside\
Inflow HYG file = NONE STORED - POND 10 IN 15
Outflow HYG file = NONE STORED - POND 10 OUT 15

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	480.79 ft
Starting Volume	=	.000 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow	=	31.03 cfs	at	5.00 min
Peak Outflow	=	6.60 cfs	at	24.00 min
Peak Elevation	=	486.56 ft		
Peak Storage	=	.688 ac-ft		

MASS BALANCE (ac-ft)

+ Initial Vol	=	.000
+ HYG Vol IN	=	.855
- Infiltration	=	.000
- HYG Vol OUT	=	.855
- Retained Vol	=	.000
Unrouted Vol	=	-.000 ac-ft (.000% of Inflow Volume)

POND ROUTED TOTAL OUTFLOW HYG...
HYG file =
HYG ID = POND 10 OUT
HYG Tag = 15

Peak Discharge =	6.60 cfs
Time to Peak =	24.00 min
HYG Volume =	.855 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	.00	1.55	2.29	2.77	3.20
5.00	3.64	4.03	4.35	4.62	4.85
10.00	5.06	5.24	5.41	5.57	5.71
15.00	5.85	5.97	6.09	6.21	6.31
20.00	6.41	6.50	6.56	6.59	6.60
25.00	6.59	6.56	6.54	6.51	6.49
30.00	6.46	6.44	6.41	6.38	6.36
35.00	6.33	6.31	6.28	6.25	6.23
40.00	6.20	6.17	6.14	6.12	6.09
45.00	6.06	6.03	6.00	5.97	5.94
50.00	5.91	5.88	5.85	5.82	5.79
55.00	5.76	5.73	5.70	5.67	5.63
60.00	5.60	5.57	5.54	5.50	5.47
65.00	5.44	5.40	5.37	5.33	5.30
70.00	5.26	5.22	5.19	5.15	5.11
75.00	5.08	5.04	5.00	4.96	4.92
80.00	4.88	4.84	4.80	4.76	4.72
85.00	4.68	4.63	4.59	4.55	4.50
90.00	4.46	4.41	4.36	4.32	4.27
95.00	4.22	4.17	4.12	4.07	4.02
100.00	3.96	3.91	3.86	3.80	3.75
105.00	3.69	3.63	3.57	3.51	3.45
110.00	3.39	3.33	3.26	3.20	3.13
115.00	3.06	3.00	2.93	2.85	2.78
120.00	2.71	2.62	2.53	2.44	2.32
125.00	2.19	2.03	1.83	1.55	1.01
130.00	.50	.07	.00		

LEVEL POOL ROUTING SUMMARY

HYG Dir = \\2serverprs\PondPack\Katie-jobs\Countryside\
Inflow HYG file = NONE STORED - POND 10 IN 25
Outflow HYG file = NONE STORED - POND 10 OUT 25

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	480.79 ft
Starting Volume	=	.000 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow	=	38.29 cfs	at	5.00 min
Peak Outflow	=	7.76 cfs	at	24.00 min
Peak Elevation	=	487.34 ft		
Peak Storage	=	.873 ac-ft		

MASS BALANCE (ac-ft)

+ Initial Vol	=	.000
+ HYG Vol IN	=	1.055
- Infiltration	=	.000
- HYG Vol OUT	=	1.055
- Retained Vol	=	.000
Unrouted Vol	=	.000 ac-ft (.000% of Outflow Volume)

POND ROUTED TOTAL OUTFLOW HYG...
HYG file =
HYG ID = POND 10 OUT
HYG Tag = 25

Peak Discharge =	7.76 cfs
Time to Peak =	24.00 min
HYG Volume =	1.055 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	.00	1.68	2.43	2.93	3.42
5.00	3.90	4.32	4.66	4.95	5.19
10.00	5.42	5.61	5.79	5.96	6.11
15.00	6.26	6.39	6.51	6.63	6.77
20.00	7.04	7.33	7.59	7.72	7.76
25.00	7.72	7.64	7.53	7.42	7.33
30.00	7.25	7.17	7.10	7.03	6.96
35.00	6.90	6.84	6.79	6.74	6.71
40.00	6.69	6.66	6.64	6.61	6.59
45.00	6.56	6.54	6.51	6.49	6.46
50.00	6.44	6.41	6.39	6.36	6.33
55.00	6.31	6.28	6.25	6.23	6.20
60.00	6.17	6.14	6.12	6.09	6.06
65.00	6.03	6.00	5.97	5.94	5.92
70.00	5.89	5.86	5.82	5.79	5.76
75.00	5.73	5.70	5.67	5.64	5.60
80.00	5.57	5.54	5.51	5.47	5.44
85.00	5.40	5.37	5.33	5.30	5.26
90.00	5.23	5.19	5.15	5.12	5.08
95.00	5.04	5.00	4.96	4.92	4.88
100.00	4.84	4.80	4.76	4.72	4.68
105.00	4.64	4.59	4.55	4.50	4.46
110.00	4.41	4.37	4.32	4.27	4.22
115.00	4.17	4.12	4.07	4.02	3.97
120.00	3.91	3.86	3.81	3.75	3.69
125.00	3.63	3.58	3.52	3.46	3.39
130.00	3.33	3.27	3.20	3.14	3.07
135.00	3.00	2.93	2.86	2.79	2.71
140.00	2.63	2.54	2.44	2.33	2.20
145.00	2.04	1.85	1.58	1.05	.53
150.00	.08	.00			

LEVEL POOL ROUTING SUMMARY

HYG Dir = \\2serverprs\PondPack\Katie-jobs\Countryside\
Inflow HYG file = NONE STORED - POND 10 IN 100
Outflow HYG file = NONE STORED - POND 10 OUT 100

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	480.79 ft
Starting Volume	=	.000 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow	=	49.00 cfs	at	5.00 min
Peak Outflow	=	8.99 cfs	at	24.00 min
Peak Elevation	=	488.35 ft		
Peak Storage	=	1.143 ac-ft		

MASS BALANCE (ac-ft)

+ Initial Vol	=	.000
+ HYG Vol IN	=	1.350
- Infiltration	=	.000
- HYG Vol OUT	=	1.350
- Retained Vol	=	.000
Unrouted Vol	=	.000 ac-ft (.000% of Outflow Volume)

POND ROUTED TOTAL OUTFLOW HYG...
HYG file =
HYG ID = POND 10 OUT
HYG Tag = 100

Peak Discharge =	8.99 cfs
Time to Peak =	24.00 min
HYG Volume =	1.350 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	.00	1.82	2.58	3.13	3.69
5.00	4.23	4.68	5.05	5.35	5.62
10.00	5.86	6.07	6.26	6.44	6.60
15.00	6.78	7.16	7.68	8.02	8.30
20.00	8.55	8.75	8.88	8.96	8.99
25.00	8.97	8.92	8.88	8.83	8.79
30.00	8.74	8.69	8.64	8.60	8.55
35.00	8.50	8.45	8.39	8.34	8.29
40.00	8.23	8.18	8.12	8.06	8.00
45.00	7.94	7.88	7.82	7.75	7.68
50.00	7.58	7.46	7.37	7.28	7.20
55.00	7.13	7.06	6.99	6.93	6.86
60.00	6.81	6.76	6.72	6.69	6.67
65.00	6.65	6.62	6.60	6.57	6.55
70.00	6.52	6.50	6.47	6.45	6.42
75.00	6.40	6.37	6.34	6.32	6.29
80.00	6.26	6.24	6.21	6.18	6.16
85.00	6.13	6.10	6.07	6.04	6.01
90.00	5.99	5.96	5.93	5.90	5.87
95.00	5.84	5.81	5.78	5.74	5.71
100.00	5.68	5.65	5.62	5.59	5.55
105.00	5.52	5.49	5.45	5.42	5.38
110.00	5.35	5.31	5.28	5.24	5.21
115.00	5.17	5.13	5.09	5.06	5.02
120.00	4.98	4.94	4.90	4.86	4.82
125.00	4.78	4.74	4.70	4.65	4.61
130.00	4.57	4.52	4.48	4.43	4.38
135.00	4.34	4.29	4.24	4.19	4.14
140.00	4.09	4.04	3.99	3.94	3.88
145.00	3.83	3.77	3.72	3.66	3.60
150.00	3.54	3.48	3.42	3.36	3.29

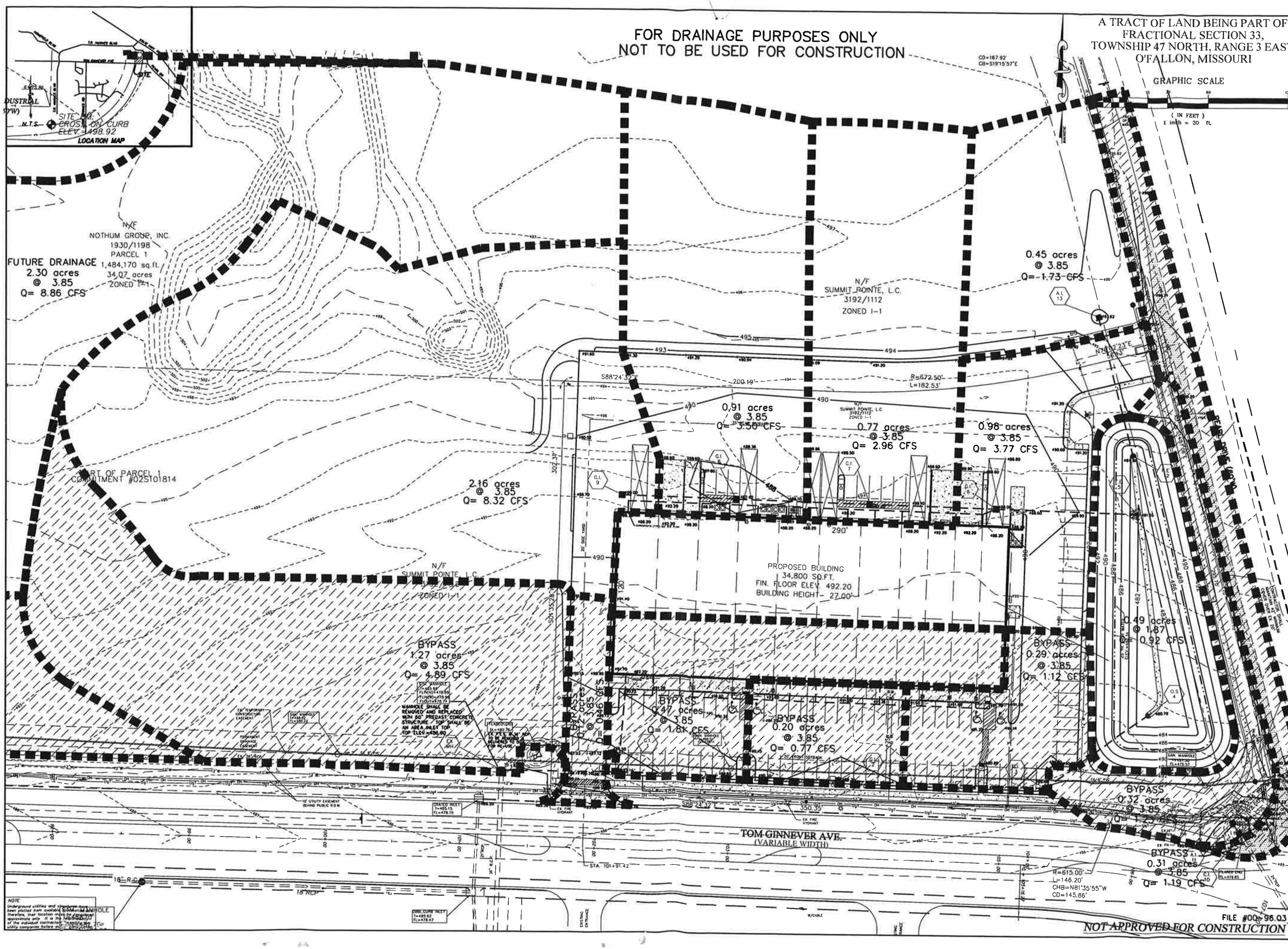
HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
155.00	3.23	3.16	3.10	3.03	2.96
160.00	2.89	2.82	2.74	2.66	2.58
165.00	2.48	2.38	2.26	2.11	1.93
170.00	1.70	1.34	.68	.22	.00

Index of Starting Page Numbers for ID Names

SEC. 22
23
PICKETT RAY & SILVER
CIVIL ENGINEERS
PLANNERS
LAND SURVEYORS
COUNTRY SIDE CARPETS
IMPROVEMENT PLANS
O'FALLON, MO
Prepared For:
SUMMIT POINTE, L.C.
SCALE: 1"=40'
T.R. HUGHES BLVD. (VARIABLE WIDTH)
PEARL DRIVE VACATION
2408/1012
ORD #4072
FUTURE ADDITION
PROPOSED
CLUB / LODGE
12,000 SQ.FT.
F.F. = 506.00
SHERIFF'S FACILITY
LOT B
CROSSINGS SPEC #2
UNDEVELOPED
7.69Ac. @ 3.85
Q = 29.61 cfs
2.03Ac. @ 3.85
Q = 7.82 cfs
1.67Ac. @ 1.87
Q = 14.34 cfs
3.38 Ac. @ 1.87
Q = 16.32 cfs
Q = 11.17
Q = 2.31 cfs
SHEET 5A OF 10

\\3serverprs\Projects\01212\dwg\01212CNRTY REVISED DES 12-20-05.dwg, 3/23/2006 9:13:07 AM, DEBBIE STOSZ


FOR DRAINAGE PURPOSES ONLY
NOT TO BE USED FOR CONSTRUCTION
A TRACT OF LAND BEING PART OF FRACTIONAL SECTION 33, TOWNSHIP 47 NORTH, RANGE 3 EAST, O'FALLON, MISSOURI
GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft.
LOCATION MAP
N.T.S.
SITE B.M. CROSS ON CURB ELEV. 498.92
N/F NOTHUM GROUP, INC. 1930/1198 PARCEL 1 1,484,170 sq.ft. 34.07 acres ZONED I-1
FUTURE DRAINAGE 2.30 acres @ 3.85 Q= 8.86 CFS
N/F SUMMIT POINTE, L.C. 3192/1112 ZONED I-1
0.45 acres @ 3.85 Q= 1.73 CFS
0.91 acres @ 3.85 Q= 3.50 CFS
0.77 acres @ 3.85 Q= 2.96 CFS
0.98 acres @ 3.85 Q= 3.77 CFS
PART OF PARCEL 1 COMMITMENT #025101814
2.16 acres @ 3.85 Q= 8.32 CFS
N/F SUMMIT POINTE, L.C. ZONED I-1
PROPOSED BUILDING 34,800 SQ.FT. FIN. FLOOR ELEV. 492.20 BUILDING HEIGHT= 27.00'
290'
0.49 acres @ 1.87 Q= 0.92 CFS
BYPASS 1.27 acres @ 3.85 Q= 4.89 CFS
BYPASS 0.29 acres @ 3.85 Q= 1.12 CFS
BYPASS 0.47 acres @ 3.85 Q= 1.81 CFS
BYPASS 0.20 acres @ 3.85 Q= 0.77 CFS
BYPASS 0.32 acres @ 3.85 Q= 1.23 CFS
BYPASS 0.31 acres @ 3.85 Q= 1.19 CFS
TOM GINNEVER AVE. (VARIABLE WIDTH)
R=615.00' L=146.20' CHB=N81°35'55"W CD=145.86'
R=672.50' L=182.53'
FILE #00-96.03
NOT APPROVED FOR CONSTRUCTION

PICKETT RAY & SILVER

CIVIL ENGINEERS
PLANNERS
LAND SURVEYORS

333 Mid Rivers Mall Drive
St. Peters, MO 63376
Phone (636) 397-1211
Fax (636) 397-1104

COUNTRY SIDE CARPETS

IMPROVEMENT PLANS

O'FALLON, MO

Prepared For:
SUMMIT POINTE, L.C.
239 FOX HILL ROAD
ST. CHARLES, MO. 63301
(636)940-9300

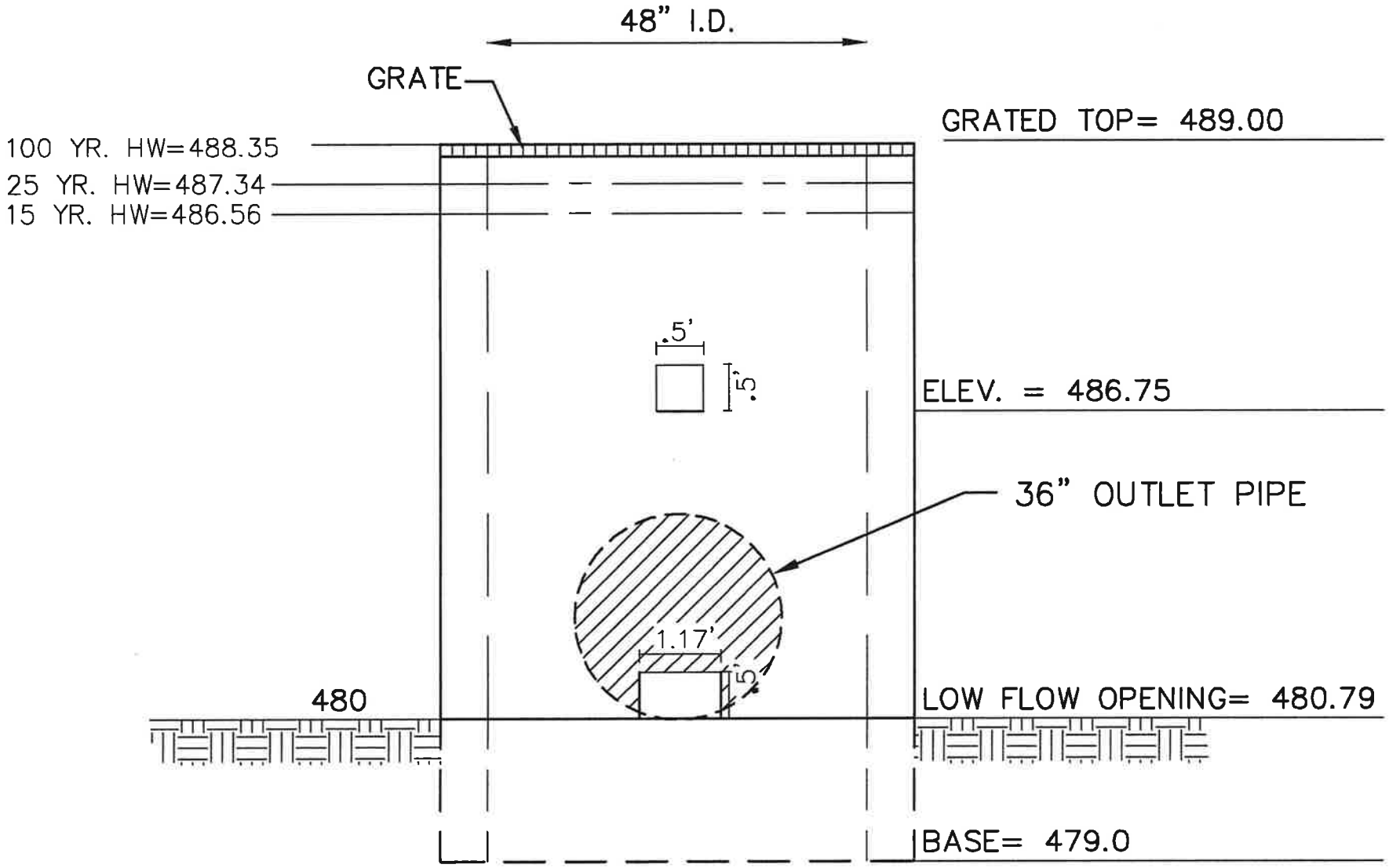
REVISIONS NO.	DATE	
	12-16-05	PER CITY OF O'FALLON
	01-31-06	PER CITY OF O'FALLON
	03-23-06	PER CITY OF O'FALLON

ENGINEERS AUTHENTICATION
The responsibility for professional engineering liability on this project is hereby limited to the set of plans authenticated by the seal, signature, and date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in this project and specifically excludes revisions after this date unless reauthenticated.
PICKETT, RAY & SILVER, INC

DRAWN B.PARKS	DATE 12-16-05
CHECKED D.BYRD	DATE 12-16-05
PROJECT # 01212.BRST.01C	
TASK # 1	FIELD BOOK X

COUNTRY SIDE CARPETS
DRAINAGE AREA MAP

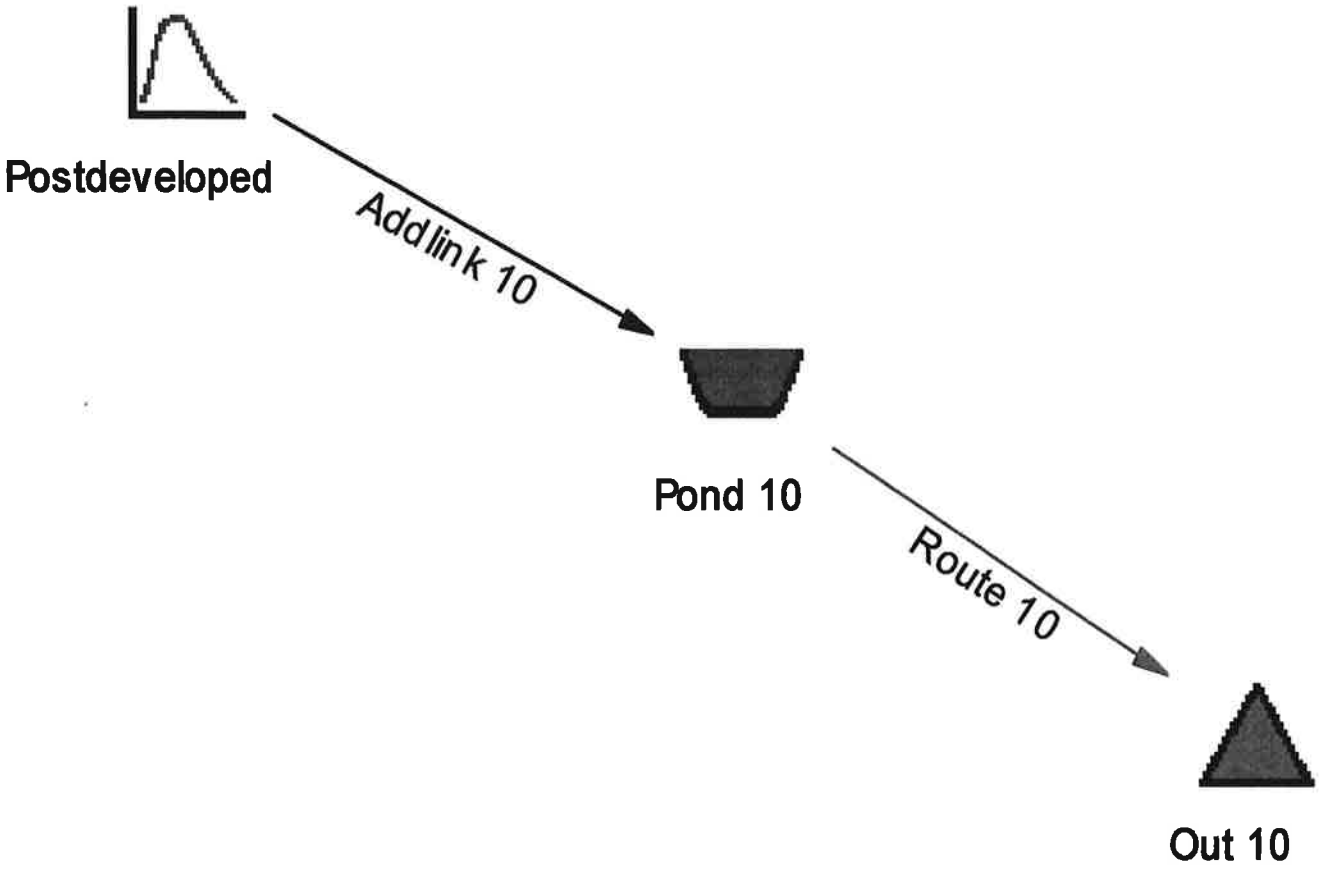
SHEET 5 OF 10



OUTFALL STRUCTURE 4
48" INSIDE DIAMETER MANHOLE
WITH GRATE ON SILL

N.T.S.

LOW-FLOW BLOCKED



JOB TITLE
==========

Project Date: 2/1/2006
Project Engineer: Katie Lyons
Project Title: Countryside
Project Comments:

********** POND ROUTING **********

MASTER DESIGN STORM SUMMARY

Hydrograph Queue Only Network

MASTER NETWORK SUMMARY
SCS Unit Hydrograph Method
Hydrograph File Import Option Used For 1 node(s)

(*Node=Outfall; +Node=Diversion;)
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Node ID	Type	Return Event	HYG Vol ac-ft	Trun	Qpeak min	Qpeak cfs	Max WSEL ft	Max Pond Storage ac-ft
*OUT 10	JCT	100	1.347		23.00	22.94		
POND 10 IN	POND	100	1.350		5.00	49.00		
POND 10 OUT	POND	100	1.347		23.00	22.94	490.44	1.832
POSTDEVELOPED	HYG	100	1.350		5.00	49.00		

HYG file =
HYG ID = 100YR-20MIN
HYG Tag = 100YR

Peak Discharge =	49.00 cfs
Time to Peak =	5.00 min
HYG Volume =	1.350 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	.00	9.79	19.59	29.38	39.18
5.00	49.00	49.00	49.00	49.00	49.00
10.00	49.00	49.00	49.00	49.00	49.00
15.00	49.00	49.00	49.00	49.00	49.00
20.00	49.00	39.18	29.38	19.59	9.79
25.00	.00				

TIME vs. ELEVATION (ft)

Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	486.75	486.78	486.87	487.01	487.20
5.00	487.44	487.70	487.94	488.18	488.41
10.00	488.63	488.85	489.06	489.25	489.44
15.00	489.62	489.78	489.93	490.06	490.19
20.00	490.30	490.39	490.43	490.44	490.41
25.00	490.35	490.27	490.20	490.13	490.07
30.00	490.01	489.96	489.91	489.86	489.82
35.00	489.78	489.74	489.70	489.66	489.63
40.00	489.60	489.57	489.54	489.51	489.49
45.00	489.46	489.44	489.42	489.40	489.38
50.00	489.36	489.34	489.32	489.31	489.29
55.00	489.28	489.26	489.25	489.23	489.22
60.00	489.21	489.19	489.18	489.17	489.16
65.00	489.15	489.14	489.13	489.12	489.11
70.00	489.10	489.09	489.08	489.07	489.06
75.00	489.06	489.05	489.04	489.03	489.02
80.00	489.02	489.01	489.00	488.99	488.99
85.00	488.98	488.97	488.96	488.96	488.95
90.00	488.94	488.93	488.93	488.92	488.91
95.00	488.90	488.90	488.89	488.88	488.87
100.00	488.87	488.86	488.85	488.84	488.84
105.00	488.83	488.82	488.82	488.81	488.80
110.00	488.79	488.79	488.78	488.77	488.76
115.00	488.76	488.75	488.74	488.74	488.73
120.00	488.72	488.71	488.71	488.70	488.69
125.00	488.69	488.68	488.67	488.66	488.66
130.00	488.65	488.64	488.64	488.63	488.62
135.00	488.61	488.61	488.60	488.59	488.59
140.00	488.58	488.57	488.57	488.56	488.55
145.00	488.54	488.54	488.53	488.52	488.52
150.00	488.51	488.50	488.50	488.49	488.48
155.00	488.48	488.47	488.46	488.46	488.45
160.00	488.44	488.43	488.43	488.42	488.41
165.00	488.41	488.40	488.39	488.39	488.38
170.00	488.37	488.37	488.36	488.35	488.35
175.00	488.34	488.33	488.33	488.32	488.31
180.00	488.31	488.30	488.29	488.29	488.28
185.00	488.27	488.27	488.26	488.25	488.25
190.00	488.24	488.24	488.23	488.22	488.22
195.00	488.21	488.20	488.20	488.19	488.18
200.00	488.18	488.17	488.16	488.16	488.15
205.00	488.15	488.14	488.13	488.13	488.12
210.00	488.11	488.11	488.10	488.10	488.09

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
215.00	488.08	488.08	488.07	488.06	488.06
220.00	488.05	488.05	488.04	488.03	488.03
225.00	488.02	488.02	488.01	488.00	488.00
230.00	487.99	487.99	487.98	487.97	487.97
235.00	487.96	487.96	487.95	487.94	487.94
240.00	487.93	487.93	487.92	487.92	487.91
245.00	487.90	487.90	487.89	487.89	487.88
250.00	487.87	487.87	487.86	487.86	487.85
255.00	487.85	487.84	487.83	487.83	487.82
260.00	487.82	487.81	487.81	487.80	487.80
265.00	487.79	487.79	487.78	487.77	487.77
270.00	487.76	487.76	487.75	487.75	487.74
275.00	487.74	487.73	487.73	487.72	487.71
280.00	487.71	487.70	487.70	487.69	487.69
285.00	487.68	487.68	487.67	487.67	487.66
290.00	487.66	487.65	487.65	487.64	487.64
295.00	487.63	487.63	487.62	487.62	487.61
300.00	487.61	487.60	487.60	487.59	487.59
305.00	487.58	487.58	487.57	487.57	487.56
310.00	487.56	487.55	487.55	487.54	487.54
315.00	487.53	487.53	487.53	487.52	487.52
320.00	487.51	487.51	487.50	487.50	487.49
325.00	487.49	487.48	487.48	487.48	487.47
330.00	487.47	487.46	487.46	487.45	487.45
335.00	487.44	487.44	487.44	487.43	487.43
340.00	487.42	487.42	487.41	487.41	487.41
345.00	487.40	487.40	487.39	487.39	487.39
350.00	487.38	487.38	487.37	487.37	487.37
355.00	487.36	487.36	487.35	487.35	487.35
360.00	487.34	487.34	487.33	487.33	487.33
365.00	487.32	487.32	487.32	487.31	487.31
370.00	487.30	487.30	487.30	487.29	487.29
375.00	487.29	487.28	487.28	487.28	487.27
380.00	487.27	487.27	487.26	487.26	487.26
385.00	487.25	487.25	487.25	487.24	487.24
390.00	487.24	487.23	487.23	487.23	487.23
395.00	487.22	487.22	487.22	487.21	487.21
400.00	487.21	487.21	487.20	487.20	487.20
405.00	487.20	487.19	487.19	487.19	487.19
410.00	487.18	487.18	487.18	487.18	487.17
415.00	487.17	487.17	487.17	487.16	487.16
420.00	487.16	487.16	487.16	487.15	487.15
425.00	487.15	487.15	487.14	487.14	487.14
430.00	487.14	487.14	487.13	487.13	487.13

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
435.00	487.13	487.13	487.12	487.12	487.12
440.00	487.12	487.12	487.11	487.11	487.11
445.00	487.11	487.11	487.11	487.10	487.10
450.00	487.10	487.10	487.10	487.09	487.09
455.00	487.09	487.09	487.09	487.09	487.08
460.00	487.08	487.08	487.08	487.08	487.08
465.00	487.07	487.07	487.07	487.07	487.07
470.00	487.07	487.07	487.06	487.06	487.06
475.00	487.06	487.06	487.06	487.05	487.05
480.00	487.05	487.05	487.05	487.05	487.05
485.00	487.04	487.04	487.04	487.04	487.04
490.00	487.04	487.04	487.04	487.03	487.03
495.00	487.03	487.03	487.03	487.03	487.03
500.00	487.02	487.02	487.02	487.02	487.02
505.00	487.02	487.02	487.02	487.02	487.01
510.00	487.01	487.01	487.01	487.01	487.01
515.00	487.01	487.01	487.00	487.00	487.00
520.00	487.00	487.00	487.00	487.00	487.00
525.00	487.00	486.99	486.99	486.99	486.99
530.00	486.99	486.99	486.99	486.99	486.99
535.00	486.99	486.98	486.98	486.98	486.98
540.00	486.98	486.98	486.98	486.98	486.98
545.00	486.98	486.97	486.97	486.97	486.97
550.00	486.97	486.97	486.97	486.97	486.97
555.00	486.97	486.97	486.96	486.96	486.96
560.00	486.96	486.96	486.96	486.96	486.96
565.00	486.96	486.96	486.96	486.96	486.95
570.00	486.95	486.95	486.95	486.95	486.95
575.00	486.95	486.95	486.95	486.95	486.95
580.00	486.95	486.94	486.94	486.94	486.94
585.00	486.94	486.94	486.94	486.94	486.94
590.00	486.94	486.94	486.94	486.94	486.94
595.00	486.93	486.93	486.93	486.93	486.93
600.00	486.93	486.93	486.93	486.93	486.93
605.00	486.93	486.93	486.93	486.93	486.92
610.00	486.92	486.92	486.92	486.92	486.92
615.00	486.92	486.92	486.92	486.92	486.92
620.00	486.92	486.92	486.92	486.92	486.92
625.00	486.91	486.91	486.91	486.91	486.91
630.00	486.91	486.91	486.91	486.91	486.91
635.00	486.91	486.91	486.91	486.91	486.91
640.00	486.91	486.91	486.91	486.90	486.90
645.00	486.90	486.90	486.90	486.90	486.90
650.00	486.90	486.90	486.90	486.90	486.90

TIME vs. ELEVATION (ft)

Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
655.00	486.90	486.90	486.90	486.90	486.90
660.00	486.90	486.90	486.89	486.89	486.89
665.00	486.89	486.89	486.89	486.89	486.89
670.00	486.89	486.89	486.89	486.89	486.89
675.00	486.89	486.89	486.89	486.89	486.89
680.00	486.89	486.89	486.89	486.88	486.88
685.00	486.88	486.88	486.88	486.88	486.88
690.00	486.88	486.88	486.88	486.88	486.88
695.00	486.88	486.88	486.88	486.88	486.88
700.00	486.88	486.88	486.88	486.88	486.88
705.00	486.88	486.88	486.87	486.87	486.87
710.00	486.87	486.87	486.87	486.87	486.87
715.00	486.87	486.87	486.87	486.87	486.87
720.00	486.87	486.87	486.87	486.87	486.87
725.00	486.87	486.87	486.87	486.87	486.87
730.00	486.87	486.87	486.87	486.86	486.86
735.00	486.86	486.86	486.86	486.86	486.86
740.00	486.86	486.86	486.86	486.86	486.86
745.00	486.86	486.86	486.86	486.86	486.86
750.00	486.86	486.86	486.86	486.86	486.86
755.00	486.86	486.86	486.86	486.86	486.86
760.00	486.86	486.85	486.85	486.85	486.85
765.00	486.85	486.85	486.85	486.85	486.85
770.00	486.85	486.85	486.85	486.85	486.85
775.00	486.85	486.85	486.85	486.85	486.85
780.00	486.85	486.85	486.85	486.85	486.85
785.00	486.85	486.85	486.85	486.85	486.85
790.00	486.85	486.85	486.85	486.85	486.84
795.00	486.84	486.84	486.84	486.84	486.84
800.00	486.84	486.84	486.84	486.84	486.84
805.00	486.84	486.84	486.84	486.84	486.84
810.00	486.84	486.84	486.84	486.84	486.84
815.00	486.84	486.84	486.84	486.84	486.84
820.00	486.84	486.84	486.84	486.84	486.84
825.00	486.84	486.84	486.84	486.84	486.84
830.00	486.84	486.83	486.83	486.83	486.83
835.00	486.83	486.83	486.83	486.83	486.83
840.00	486.83	486.83	486.83	486.83	486.83
845.00	486.83	486.83	486.83	486.83	486.83
850.00	486.83	486.83	486.83	486.83	486.83
855.00	486.83	486.83	486.83	486.83	486.83
860.00	486.83	486.83	486.83	486.83	486.83
865.00	486.83	486.83	486.83	486.83	486.83
870.00	486.83	486.83	486.83	486.83	486.83

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
875.00	486.82	486.82	486.82	486.82	486.82
880.00	486.82	486.82	486.82	486.82	486.82
885.00	486.82	486.82	486.82	486.82	486.82
890.00	486.82	486.82	486.82	486.82	486.82
895.00	486.82	486.82	486.82	486.82	486.82
900.00	486.82	486.82	486.82	486.82	486.82
905.00	486.82	486.82	486.82	486.82	486.82
910.00	486.82	486.82	486.82	486.82	486.82
915.00	486.82	486.82	486.82	486.82	486.82
920.00	486.82	486.82	486.82	486.82	486.82
925.00	486.82	486.82	486.82	486.81	486.81
930.00	486.81	486.81	486.81	486.81	486.81
935.00	486.81	486.81	486.81	486.81	486.81
940.00	486.81	486.81	486.81	486.81	486.81
945.00	486.81	486.81	486.81	486.81	486.81
950.00	486.81	486.81	486.81	486.81	486.81
955.00	486.81	486.81	486.81	486.81	486.81
960.00	486.81	486.81	486.81	486.81	486.81
965.00	486.81	486.81	486.81	486.81	486.81
970.00	486.81	486.81	486.81	486.81	486.81
975.00	486.81	486.81	486.81	486.81	486.81
980.00	486.81	486.81	486.81	486.81	486.81
985.00	486.81	486.81	486.81	486.81	486.81
990.00	486.81	486.81	486.81	486.81	486.81
995.00	486.80	486.80	486.80	486.80	486.80
1000.00	486.80	486.80	486.80	486.80	486.80
1005.00	486.80	486.80	486.80	486.80	486.80
1010.00	486.80	486.80	486.80	486.80	486.80
1015.00	486.80	486.80	486.80	486.80	486.80
1020.00	486.80	486.80	486.80	486.80	486.80
1025.00	486.80	486.80	486.80	486.80	486.80
1030.00	486.80	486.80	486.80	486.80	486.80
1035.00	486.80	486.80	486.80	486.80	486.80
1040.00	486.80	486.80	486.80	486.80	486.80
1045.00	486.80	486.80	486.80	486.80	486.80
1050.00	486.80	486.80	486.80	486.80	486.80
1055.00	486.80	486.80	486.80	486.80	486.80
1060.00	486.80	486.80	486.80	486.80	486.80
1065.00	486.80	486.80	486.80	486.80	486.80
1070.00	486.80	486.80	486.80	486.80	486.80
1075.00	486.80	486.80	486.80	486.80	486.80
1080.00	486.80	486.80	486.80	486.80	486.80
1085.00	486.80	486.79	486.79	486.79	486.79
1090.00	486.79	486.79	486.79	486.79	486.79

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1095.00	486.79	486.79	486.79	486.79	486.79
1100.00	486.79	486.79	486.79	486.79	486.79
1105.00	486.79	486.79	486.79	486.79	486.79
1110.00	486.79	486.79	486.79	486.79	486.79
1115.00	486.79	486.79	486.79	486.79	486.79
1120.00	486.79	486.79	486.79	486.79	486.79
1125.00	486.79	486.79	486.79	486.79	486.79
1130.00	486.79	486.79	486.79	486.79	486.79
1135.00	486.79	486.79	486.79	486.79	486.79
1140.00	486.79	486.79	486.79	486.79	486.79
1145.00	486.79	486.79	486.79	486.79	486.79
1150.00	486.79	486.79	486.79	486.79	486.79
1155.00	486.79	486.79	486.79	486.79	486.79
1160.00	486.79	486.79	486.79	486.79	486.79
1165.00	486.79	486.79	486.79	486.79	486.79
1170.00	486.79	486.79	486.79	486.79	486.79
1175.00	486.79	486.79	486.79	486.79	486.79
1180.00	486.79	486.79	486.79	486.79	486.79
1185.00	486.79	486.79	486.79	486.79	486.79
1190.00	486.79	486.79	486.79	486.79	486.79
1195.00	486.79	486.79	486.79	486.79	486.79
1200.00	486.79	486.79	486.79	486.79	486.79
1205.00	486.79	486.79	486.79	486.79	486.79
1210.00	486.79	486.79	486.79	486.79	486.79
1215.00	486.79	486.79	486.79	486.79	486.79
1220.00	486.79	486.79	486.78	486.78	486.78
1225.00	486.78	486.78	486.78	486.78	486.78
1230.00	486.78	486.78	486.78	486.78	486.78
1235.00	486.78	486.78	486.78	486.78	486.78
1240.00	486.78	486.78	486.78	486.78	486.78
1245.00	486.78	486.78	486.78	486.78	486.78
1250.00	486.78	486.78	486.78	486.78	486.78
1255.00	486.78	486.78	486.78	486.78	486.78
1260.00	486.78	486.78	486.78	486.78	486.78
1265.00	486.78	486.78	486.78	486.78	486.78
1270.00	486.78	486.78	486.78	486.78	486.78
1275.00	486.78	486.78	486.78	486.78	486.78
1280.00	486.78	486.78	486.78	486.78	486.78
1285.00	486.78	486.78	486.78	486.78	486.78
1290.00	486.78	486.78	486.78	486.78	486.78
1295.00	486.78	486.78	486.78	486.78	486.78
1300.00	486.78	486.78	486.78	486.78	486.78
1305.00	486.78	486.78	486.78	486.78	486.78
1310.00	486.78	486.78	486.78	486.78	486.78

TIME vs. ELEVATION (ft)

Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
1315.00	486.78	486.78	486.78	486.78	486.78
1320.00	486.78	486.78	486.78	486.78	486.78
1325.00	486.78	486.78	486.78	486.78	486.78
1330.00	486.78	486.78	486.78	486.78	486.78
1335.00	486.78	486.78	486.78	486.78	486.78
1340.00	486.78	486.78	486.78	486.78	486.78
1345.00	486.78	486.78	486.78	486.78	486.78
1350.00	486.78	486.78	486.78	486.78	486.78
1355.00	486.78	486.78	486.78	486.78	486.78
1360.00	486.78	486.78	486.78	486.78	486.78
1365.00	486.78	486.78	486.78	486.78	486.78
1370.00	486.78	486.78	486.78	486.78	486.78
1375.00	486.78	486.78	486.78	486.78	486.78
1380.00	486.78	486.78	486.78	486.78	486.78
1385.00	486.78	486.78	486.78	486.78	486.78
1390.00	486.78	486.78	486.78	486.78	486.78
1395.00	486.78	486.78	486.78	486.78	486.78
1400.00	486.78	486.78	486.78	486.78	486.78
1405.00	486.78	486.78	486.78	486.78	486.77
1410.00	486.77	486.77	486.77	486.77	486.77
1415.00	486.77	486.77	486.77	486.77	486.77
1420.00	486.77	486.77	486.77	486.77	486.77
1425.00	486.77	486.77	486.77	486.77	486.77
1430.00	486.77	486.77	486.77	486.77	486.77
1435.00	486.77	486.77	486.77	486.77	486.77
1440.00	486.77	486.77	486.77	486.77	486.77
1445.00	486.77	486.77	486.77	486.77	486.77
1450.00	486.77	486.77	486.77	486.77	486.77
1455.00	486.77	486.77	486.77	486.77	486.77
1460.00	486.77	486.77	486.77	486.77	486.77
1465.00	486.77	486.77	486.77	486.77	486.77
1470.00	486.77	486.77	486.77	486.77	486.77
1475.00	486.77	486.77	486.77	486.77	486.77
1480.00	486.77	486.77	486.77	486.77	486.77
1485.00	486.77	486.77	486.77	486.77	486.77
1490.00	486.77	486.77	486.77	486.77	486.77
1495.00	486.77	486.77	486.77	486.77	486.77
1500.00	486.77	486.77	486.77	486.77	486.77
1505.00	486.77	486.77	486.77	486.77	486.77
1510.00	486.77	486.77	486.77	486.77	486.77
1515.00	486.77	486.77	486.77	486.77	486.77
1520.00	486.77	486.77	486.77	486.77	486.77
1525.00	486.77	486.77	486.77	486.77	486.77
1530.00	486.77	486.77	486.77	486.77	486.77

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1535.00	486.77	486.77	486.77	486.77	486.77
1540.00	486.77	486.77	486.77	486.77	486.77
1545.00	486.77	486.77	486.77	486.77	486.77
1550.00	486.77	486.77	486.77	486.77	486.77
1555.00	486.77	486.77	486.77	486.77	486.77
1560.00	486.77	486.77	486.77	486.77	486.77
1565.00	486.77	486.77	486.77	486.77	486.77
1570.00	486.77	486.77	486.77	486.77	486.77
1575.00	486.77	486.77	486.77	486.77	486.77
1580.00	486.77	486.77	486.77	486.77	486.77
1585.00	486.77	486.77	486.77	486.77	486.77
1590.00	486.77	486.77	486.77	486.77	486.77
1595.00	486.77	486.77	486.77	486.77	486.77
1600.00	486.77	486.77	486.77	486.77	486.77
1605.00	486.77	486.77	486.77	486.77	486.77
1610.00	486.77	486.77	486.77	486.77	486.77
1615.00	486.77	486.77	486.77	486.77	486.77
1620.00	486.77	486.77	486.77	486.77	486.77
1625.00	486.77	486.77	486.77	486.77	486.77
1630.00	486.77	486.77	486.77	486.77	486.77
1635.00	486.77	486.77	486.77	486.77	486.77
1640.00	486.77	486.77	486.77	486.77	486.77
1645.00	486.77	486.77	486.77	486.77	486.77
1650.00	486.77	486.77	486.77	486.77	486.77
1655.00	486.77	486.77	486.77	486.77	486.77
1660.00	486.77	486.77	486.77	486.77	486.77
1665.00	486.77	486.77	486.77	486.77	486.77
1670.00	486.77	486.77	486.77	486.77	486.77
1675.00	486.77	486.77	486.77	486.77	486.77
1680.00	486.77	486.77	486.77	486.77	486.77
1685.00	486.77	486.77	486.77	486.77	486.77
1690.00	486.77	486.77	486.77	486.76	486.76
1695.00	486.76	486.76	486.76	486.76	486.76
1700.00	486.76	486.76	486.76	486.76	486.76
1705.00	486.76	486.76	486.76	486.76	486.76
1710.00	486.76	486.76	486.76	486.76	486.76
1715.00	486.76	486.76	486.76	486.76	486.76
1720.00	486.76	486.76	486.76	486.76	486.76
1725.00	486.76	486.76	486.76	486.76	486.76
1730.00	486.76	486.76	486.76	486.76	486.76
1735.00	486.76	486.76	486.76	486.76	486.76
1740.00	486.76	486.76	486.76	486.76	486.76
1745.00	486.76	486.76	486.76	486.76	486.76
1750.00	486.76	486.76	486.76	486.76	486.76

TIME vs. ELEVATION (ft)

Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
1755.00	486.76	486.76	486.76	486.76	486.76
1760.00	486.76	486.76	486.76	486.76	486.76
1765.00	486.76	486.76	486.76	486.76	486.76
1770.00	486.76	486.76	486.76	486.76	486.76
1775.00	486.76	486.76	486.76	486.76	486.76
1780.00	486.76	486.76	486.76	486.76	486.76
1785.00	486.76	486.76	486.76	486.76	486.76
1790.00	486.76	486.76	486.76	486.76	486.76
1795.00	486.76	486.76	486.76	486.76	486.76
1800.00	486.76	486.76	486.76	486.76	486.76
1805.00	486.76	486.76	486.76	486.76	486.76
1810.00	486.76	486.76	486.76	486.76	486.76
1815.00	486.76	486.76	486.76	486.76	486.76
1820.00	486.76	486.76	486.76	486.76	486.76
1825.00	486.76	486.76	486.76	486.76	486.76
1830.00	486.76	486.76	486.76	486.76	486.76
1835.00	486.76	486.76	486.76	486.76	486.76
1840.00	486.76	486.76	486.76	486.76	486.76
1845.00	486.76	486.76	486.76	486.76	486.76
1850.00	486.76	486.76	486.76	486.76	486.76
1855.00	486.76	486.76	486.76	486.76	486.76
1860.00	486.76	486.76	486.76	486.76	486.76
1865.00	486.76	486.76	486.76	486.76	486.76
1870.00	486.76	486.76	486.76	486.76	486.76
1875.00	486.76	486.76	486.76	486.76	486.76
1880.00	486.76	486.76	486.76	486.76	486.76
1885.00	486.76	486.76	486.76	486.76	486.76
1890.00	486.76	486.76	486.76	486.76	486.76
1895.00	486.76	486.76	486.76	486.76	486.76
1900.00	486.76	486.76	486.76	486.76	486.76
1905.00	486.76	486.76	486.76	486.76	486.76
1910.00	486.76	486.76	486.76	486.76	486.76
1915.00	486.76	486.76			

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
.00	.730	.737	.757	.791	.837
5.00	.897	.964	1.029	1.095	1.161
10.00	1.226	1.292	1.357	1.421	1.482
15.00	1.540	1.595	1.647	1.695	1.740
20.00	1.782	1.814	1.830	1.832	1.821
25.00	1.798	1.771	1.745	1.721	1.699
30.00	1.678	1.659	1.641	1.625	1.609
35.00	1.595	1.581	1.568	1.556	1.545
40.00	1.534	1.524	1.515	1.506	1.497
45.00	1.489	1.482	1.474	1.467	1.461
50.00	1.455	1.449	1.443	1.437	1.432
55.00	1.427	1.422	1.418	1.413	1.409
60.00	1.405	1.401	1.397	1.393	1.390
65.00	1.386	1.383	1.380	1.377	1.374
70.00	1.371	1.368	1.365	1.362	1.359
75.00	1.357	1.354	1.351	1.349	1.346
80.00	1.344	1.342	1.339	1.337	1.335
85.00	1.332	1.330	1.328	1.325	1.323
90.00	1.321	1.318	1.316	1.314	1.311
95.00	1.309	1.307	1.305	1.302	1.300
100.00	1.298	1.296	1.293	1.291	1.289
105.00	1.286	1.284	1.282	1.280	1.278
110.00	1.275	1.273	1.271	1.269	1.267
115.00	1.264	1.262	1.260	1.258	1.256
120.00	1.253	1.251	1.249	1.247	1.245
125.00	1.243	1.240	1.238	1.236	1.234
130.00	1.232	1.230	1.228	1.225	1.223
135.00	1.221	1.219	1.217	1.215	1.213
140.00	1.211	1.209	1.207	1.205	1.203
145.00	1.200	1.198	1.196	1.194	1.192
150.00	1.190	1.188	1.186	1.184	1.182
155.00	1.180	1.178	1.176	1.174	1.172
160.00	1.170	1.168	1.166	1.164	1.162
165.00	1.160	1.158	1.156	1.154	1.152
170.00	1.150	1.148	1.147	1.145	1.143
175.00	1.141	1.139	1.137	1.135	1.133
180.00	1.131	1.129	1.127	1.126	1.124
185.00	1.122	1.120	1.118	1.116	1.114
190.00	1.113	1.111	1.109	1.107	1.105
195.00	1.103	1.102	1.100	1.098	1.096
200.00	1.094	1.093	1.091	1.089	1.087
205.00	1.085	1.084	1.082	1.080	1.078
210.00	1.077	1.075	1.073	1.071	1.070

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
215.00	1.068	1.066	1.064	1.063	1.061
220.00	1.059	1.058	1.056	1.054	1.053
225.00	1.051	1.049	1.048	1.046	1.044
230.00	1.043	1.041	1.039	1.038	1.036
235.00	1.034	1.033	1.031	1.030	1.028
240.00	1.026	1.025	1.023	1.022	1.020
245.00	1.018	1.017	1.015	1.014	1.012
250.00	1.011	1.009	1.007	1.006	1.004
255.00	1.003	1.001	1.000	.998	.997
260.00	.995	.994	.992	.991	.989
265.00	.988	.986	.985	.984	.982
270.00	.981	.979	.978	.976	.975
275.00	.973	.972	.971	.969	.968
280.00	.966	.965	.964	.962	.961
285.00	.959	.958	.957	.955	.954
290.00	.953	.951	.950	.949	.947
295.00	.946	.945	.943	.942	.941
300.00	.940	.938	.937	.936	.934
305.00	.933	.932	.931	.929	.928
310.00	.927	.926	.924	.923	.922
315.00	.921	.920	.918	.917	.916
320.00	.915	.914	.912	.911	.910
325.00	.909	.908	.907	.905	.904
330.00	.903	.902	.901	.900	.899
335.00	.898	.896	.895	.894	.893
340.00	.892	.891	.890	.889	.888
345.00	.887	.886	.885	.884	.883
350.00	.882	.881	.880	.879	.878
355.00	.877	.876	.875	.874	.873
360.00	.872	.871	.870	.869	.868
365.00	.867	.866	.865	.864	.863
370.00	.862	.861	.861	.860	.859
375.00	.858	.857	.856	.855	.854
380.00	.854	.853	.852	.851	.850
385.00	.850	.849	.848	.847	.846
390.00	.846	.845	.844	.844	.843
395.00	.842	.841	.841	.840	.839
400.00	.839	.838	.837	.837	.836
405.00	.836	.835	.834	.834	.833
410.00	.833	.832	.831	.831	.830
415.00	.830	.829	.829	.828	.827
420.00	.827	.826	.826	.825	.825
425.00	.824	.824	.823	.823	.822
430.00	.822	.821	.821	.820	.820

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
435.00	.819	.819	.818	.818	.817
440.00	.817	.816	.816	.815	.815
445.00	.815	.814	.814	.813	.813
450.00	.812	.812	.812	.811	.811
455.00	.810	.810	.809	.809	.809
460.00	.808	.808	.807	.807	.807
465.00	.806	.806	.806	.805	.805
470.00	.804	.804	.804	.803	.803
475.00	.803	.802	.802	.801	.801
480.00	.801	.800	.800	.800	.799
485.00	.799	.799	.798	.798	.798
490.00	.797	.797	.797	.796	.796
495.00	.796	.796	.795	.795	.795
500.00	.794	.794	.794	.793	.793
505.00	.793	.793	.792	.792	.792
510.00	.791	.791	.791	.791	.790
515.00	.790	.790	.790	.789	.789
520.00	.789	.788	.788	.788	.788
525.00	.787	.787	.787	.787	.786
530.00	.786	.786	.786	.786	.785
535.00	.785	.785	.785	.784	.784
540.00	.784	.784	.783	.783	.783
545.00	.783	.782	.782	.782	.782
550.00	.782	.781	.781	.781	.781
555.00	.781	.780	.780	.780	.780
560.00	.779	.779	.779	.779	.779
565.00	.778	.778	.778	.778	.778
570.00	.777	.777	.777	.777	.777
575.00	.777	.776	.776	.776	.776
580.00	.776	.775	.775	.775	.775
585.00	.775	.775	.774	.774	.774
590.00	.774	.774	.773	.773	.773
595.00	.773	.773	.773	.772	.772
600.00	.772	.772	.772	.772	.771
605.00	.771	.771	.771	.771	.771
610.00	.771	.770	.770	.770	.770
615.00	.770	.770	.769	.769	.769
620.00	.769	.769	.769	.769	.768
625.00	.768	.768	.768	.768	.768
630.00	.768	.767	.767	.767	.767
635.00	.767	.767	.767	.767	.766
640.00	.766	.766	.766	.766	.766
645.00	.766	.766	.765	.765	.765
650.00	.765	.765	.765	.765	.765

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
655.00	.764	.764	.764	.764	.764
660.00	.764	.764	.764	.764	.763
665.00	.763	.763	.763	.763	.763
670.00	.763	.763	.763	.762	.762
675.00	.762	.762	.762	.762	.762
680.00	.762	.762	.761	.761	.761
685.00	.761	.761	.761	.761	.761
690.00	.761	.761	.760	.760	.760
695.00	.760	.760	.760	.760	.760
700.00	.760	.760	.759	.759	.759
705.00	.759	.759	.759	.759	.759
710.00	.759	.759	.759	.758	.758
715.00	.758	.758	.758	.758	.758
720.00	.758	.758	.758	.758	.757
725.00	.757	.757	.757	.757	.757
730.00	.757	.757	.757	.757	.757
735.00	.756	.756	.756	.756	.756
740.00	.756	.756	.756	.756	.756
745.00	.756	.756	.755	.755	.755
750.00	.755	.755	.755	.755	.755
755.00	.755	.755	.755	.755	.755
760.00	.754	.754	.754	.754	.754
765.00	.754	.754	.754	.754	.754
770.00	.754	.754	.754	.753	.753
775.00	.753	.753	.753	.753	.753
780.00	.753	.753	.753	.753	.753
785.00	.753	.753	.752	.752	.752
790.00	.752	.752	.752	.752	.752
795.00	.752	.752	.752	.752	.752
800.00	.752	.752	.751	.751	.751
805.00	.751	.751	.751	.751	.751
810.00	.751	.751	.751	.751	.751
815.00	.751	.751	.751	.750	.750
820.00	.750	.750	.750	.750	.750
825.00	.750	.750	.750	.750	.750
830.00	.750	.750	.750	.750	.750
835.00	.749	.749	.749	.749	.749
840.00	.749	.749	.749	.749	.749
845.00	.749	.749	.749	.749	.749
850.00	.749	.749	.749	.749	.748
855.00	.748	.748	.748	.748	.748
860.00	.748	.748	.748	.748	.748
865.00	.748	.748	.748	.748	.748
870.00	.748	.748	.748	.747	.747

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
875.00	.747	.747	.747	.747	.747
880.00	.747	.747	.747	.747	.747
885.00	.747	.747	.747	.747	.747
890.00	.747	.747	.747	.747	.747
895.00	.746	.746	.746	.746	.746
900.00	.746	.746	.746	.746	.746
905.00	.746	.746	.746	.746	.746
910.00	.746	.746	.746	.746	.746
915.00	.746	.746	.746	.745	.745
920.00	.745	.745	.745	.745	.745
925.00	.745	.745	.745	.745	.745
930.00	.745	.745	.745	.745	.745
935.00	.745	.745	.745	.745	.745
940.00	.745	.745	.745	.745	.744
945.00	.744	.744	.744	.744	.744
950.00	.744	.744	.744	.744	.744
955.00	.744	.744	.744	.744	.744
960.00	.744	.744	.744	.744	.744
965.00	.744	.744	.744	.744	.744
970.00	.744	.744	.744	.743	.743
975.00	.743	.743	.743	.743	.743
980.00	.743	.743	.743	.743	.743
985.00	.743	.743	.743	.743	.743
990.00	.743	.743	.743	.743	.743
995.00	.743	.743	.743	.743	.743
1000.00	.743	.743	.743	.743	.743
1005.00	.742	.742	.742	.742	.742
1010.00	.742	.742	.742	.742	.742
1015.00	.742	.742	.742	.742	.742
1020.00	.742	.742	.742	.742	.742
1025.00	.742	.742	.742	.742	.742
1030.00	.742	.742	.742	.742	.742
1035.00	.742	.742	.742	.742	.742
1040.00	.742	.742	.742	.741	.741
1045.00	.741	.741	.741	.741	.741
1050.00	.741	.741	.741	.741	.741
1055.00	.741	.741	.741	.741	.741
1060.00	.741	.741	.741	.741	.741
1065.00	.741	.741	.741	.741	.741
1070.00	.741	.741	.741	.741	.741
1075.00	.741	.741	.741	.741	.741
1080.00	.741	.741	.741	.741	.741
1085.00	.741	.741	.740	.740	.740
1090.00	.740	.740	.740	.740	.740

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1095.00	.740	.740	.740	.740	.740
1100.00	.740	.740	.740	.740	.740
1105.00	.740	.740	.740	.740	.740
1110.00	.740	.740	.740	.740	.740
1115.00	.740	.740	.740	.740	.740
1120.00	.740	.740	.740	.740	.740
1125.00	.740	.740	.740	.740	.740
1130.00	.740	.740	.740	.740	.740
1135.00	.740	.740	.740	.740	.740
1140.00	.739	.739	.739	.739	.739
1145.00	.739	.739	.739	.739	.739
1150.00	.739	.739	.739	.739	.739
1155.00	.739	.739	.739	.739	.739
1160.00	.739	.739	.739	.739	.739
1165.00	.739	.739	.739	.739	.739
1170.00	.739	.739	.739	.739	.739
1175.00	.739	.739	.739	.739	.739
1180.00	.739	.739	.739	.739	.739
1185.00	.739	.739	.739	.739	.739
1190.00	.739	.739	.739	.739	.739
1195.00	.739	.739	.739	.739	.739
1200.00	.739	.739	.739	.738	.738
1205.00	.738	.738	.738	.738	.738
1210.00	.738	.738	.738	.738	.738
1215.00	.738	.738	.738	.738	.738
1220.00	.738	.738	.738	.738	.738
1225.00	.738	.738	.738	.738	.738
1230.00	.738	.738	.738	.738	.738
1235.00	.738	.738	.738	.738	.738
1240.00	.738	.738	.738	.738	.738
1245.00	.738	.738	.738	.738	.738
1250.00	.738	.738	.738	.738	.738
1255.00	.738	.738	.738	.738	.738
1260.00	.738	.738	.738	.738	.738
1265.00	.738	.738	.738	.738	.738
1270.00	.738	.738	.738	.738	.737
1275.00	.737	.737	.737	.737	.737
1280.00	.737	.737	.737	.737	.737
1285.00	.737	.737	.737	.737	.737
1290.00	.737	.737	.737	.737	.737
1295.00	.737	.737	.737	.737	.737
1300.00	.737	.737	.737	.737	.737
1305.00	.737	.737	.737	.737	.737
1310.00	.737	.737	.737	.737	.737

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1315.00	.737	.737	.737	.737	.737
1320.00	.737	.737	.737	.737	.737
1325.00	.737	.737	.737	.737	.737
1330.00	.737	.737	.737	.737	.737
1335.00	.737	.737	.737	.737	.737
1340.00	.737	.737	.737	.737	.737
1345.00	.737	.737	.737	.737	.737
1350.00	.737	.737	.737	.737	.737
1355.00	.736	.736	.736	.736	.736
1360.00	.736	.736	.736	.736	.736
1365.00	.736	.736	.736	.736	.736
1370.00	.736	.736	.736	.736	.736
1375.00	.736	.736	.736	.736	.736
1380.00	.736	.736	.736	.736	.736
1385.00	.736	.736	.736	.736	.736
1390.00	.736	.736	.736	.736	.736
1395.00	.736	.736	.736	.736	.736
1400.00	.736	.736	.736	.736	.736
1405.00	.736	.736	.736	.736	.736
1410.00	.736	.736	.736	.736	.736
1415.00	.736	.736	.736	.736	.736
1420.00	.736	.736	.736	.736	.736
1425.00	.736	.736	.736	.736	.736
1430.00	.736	.736	.736	.736	.736
1435.00	.736	.736	.736	.736	.736
1440.00	.736	.736	.736	.736	.736
1445.00	.736	.736	.736	.736	.736
1450.00	.736	.735	.735	.735	.735
1455.00	.735	.735	.735	.735	.735
1460.00	.735	.735	.735	.735	.735
1465.00	.735	.735	.735	.735	.735
1470.00	.735	.735	.735	.735	.735
1475.00	.735	.735	.735	.735	.735
1480.00	.735	.735	.735	.735	.735
1485.00	.735	.735	.735	.735	.735
1490.00	.735	.735	.735	.735	.735
1495.00	.735	.735	.735	.735	.735
1500.00	.735	.735	.735	.735	.735
1505.00	.735	.735	.735	.735	.735
1510.00	.735	.735	.735	.735	.735
1515.00	.735	.735	.735	.735	.735
1520.00	.735	.735	.735	.735	.735
1525.00	.735	.735	.735	.735	.735
1530.00	.735	.735	.735	.735	.735

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1535.00	.735	.735	.735	.735	.735
1540.00	.735	.735	.735	.735	.735
1545.00	.735	.735	.735	.735	.735
1550.00	.735	.735	.735	.735	.735
1555.00	.735	.735	.735	.735	.735
1560.00	.735	.735	.735	.735	.735
1565.00	.735	.735	.734	.734	.734
1570.00	.734	.734	.734	.734	.734
1575.00	.734	.734	.734	.734	.734
1580.00	.734	.734	.734	.734	.734
1585.00	.734	.734	.734	.734	.734
1590.00	.734	.734	.734	.734	.734
1595.00	.734	.734	.734	.734	.734
1600.00	.734	.734	.734	.734	.734
1605.00	.734	.734	.734	.734	.734
1610.00	.734	.734	.734	.734	.734
1615.00	.734	.734	.734	.734	.734
1620.00	.734	.734	.734	.734	.734
1625.00	.734	.734	.734	.734	.734
1630.00	.734	.734	.734	.734	.734
1635.00	.734	.734	.734	.734	.734
1640.00	.734	.734	.734	.734	.734
1645.00	.734	.734	.734	.734	.734
1650.00	.734	.734	.734	.734	.734
1655.00	.734	.734	.734	.734	.734
1660.00	.734	.734	.734	.734	.734
1665.00	.734	.734	.734	.734	.734
1670.00	.734	.734	.734	.734	.734
1675.00	.734	.734	.734	.734	.734
1680.00	.734	.734	.734	.734	.734
1685.00	.734	.734	.734	.734	.734
1690.00	.734	.734	.734	.734	.734
1695.00	.734	.734	.734	.734	.734
1700.00	.734	.734	.734	.734	.734
1705.00	.734	.734	.734	.734	.734
1710.00	.734	.734	.734	.734	.733
1715.00	.733	.733	.733	.733	.733
1720.00	.733	.733	.733	.733	.733
1725.00	.733	.733	.733	.733	.733
1730.00	.733	.733	.733	.733	.733
1735.00	.733	.733	.733	.733	.733
1740.00	.733	.733	.733	.733	.733
1745.00	.733	.733	.733	.733	.733
1750.00	.733	.733	.733	.733	.733

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1755.00	.733	.733	.733	.733	.733
1760.00	.733	.733	.733	.733	.733
1765.00	.733	.733	.733	.733	.733
1770.00	.733	.733	.733	.733	.733
1775.00	.733	.733	.733	.733	.733
1780.00	.733	.733	.733	.733	.733
1785.00	.733	.733	.733	.733	.733
1790.00	.733	.733	.733	.733	.733
1795.00	.733	.733	.733	.733	.733
1800.00	.733	.733	.733	.733	.733
1805.00	.733	.733	.733	.733	.733
1810.00	.733	.733	.733	.733	.733
1815.00	.733	.733	.733	.733	.733
1820.00	.733	.733	.733	.733	.733
1825.00	.733	.733	.733	.733	.733
1830.00	.733	.733	.733	.733	.733
1835.00	.733	.733	.733	.733	.733
1840.00	.733	.733	.733	.733	.733
1845.00	.733	.733	.733	.733	.733
1850.00	.733	.733	.733	.733	.733
1855.00	.733	.733	.733	.733	.733
1860.00	.733	.733	.733	.733	.733
1865.00	.733	.733	.733	.733	.733
1870.00	.733	.733	.733	.733	.733
1875.00	.733	.733	.733	.733	.733
1880.00	.733	.733	.733	.733	.733
1885.00	.733	.733	.733	.733	.733
1890.00	.733	.733	.733	.733	.733
1895.00	.733	.733	.733	.733	.733
1900.00	.733	.733	.733	.733	.733
1905.00	.733	.733	.733	.733	.733
1910.00	.733	.733	.733	.733	.732
1915.00	.732	.732			

Elevation (ft)	Planimeter (sq.in)	Area (sq.ft)	A1+A2+sqr(A1*A2) (sq.ft)	Volume (ac-ft)	Volume Sum (ac-ft)
480.79	-----	1	0	.000	.000
482.00	-----	3216	3274	.030	.030
484.00	-----	5833	13380	.205	.235
486.00	-----	8807	21807	.334	.569
488.00	-----	12008	31099	.476	1.045
490.00	-----	15434	41056	.628	1.673
492.00	-----	19087	51685	.791	2.464

POND VOLUME EQUATIONS

* Incremental volume computed by the Conic Method for Reservoir Volumes.

Volume = (1/3) * (EL2-EL1) * (Area1 + Area2 + sq.rt.(Area1*Area2))

where: EL1, EL2 = Lower and upper elevations of the increment
Area1,Area2 = Areas computed for EL1, EL2, respectively
Volume = Incremental volume between EL1 and EL2

REQUESTED POND WS ELEVATIONS:

Min. Elev.= 480.79 ft
Increment = .10 ft
Max. Elev.= 492.00 ft

****
OUTLET CONNECTIVITY
****

---> Forward Flow Only (UpStream to DnStream)
<--- Reverse Flow Only (DnStream to UpStream)
<---> Forward and Reverse Both Allowed

Structure	No.		Outfall	E1, ft	E2, ft
Orifice-Area	UO	--->	TW	487.250	492.000
Weir-Rectangular	UW	--->	TW	486.750	487.250
Weir-Rectangular	OF	--->	TW	489.000	492.000

TW SETUP, DS Channel

OUTLET STRUCTURE INPUT DATA

Structure ID = UO
Structure Type = Orifice-Area

# of Openings	=	1
Invert Elev.	=	486.75 ft
Area	=	.2500 sq.ft
Top of Orifice	=	487.25 ft
Datum Elev.	=	487.00 ft
Orifice Coeff.	=	.600

Structure ID = UW
Structure Type = Weir-Rectangular

# of Openings	=	1
Crest Elev.	=	486.75 ft
Weir Length	=	.50 ft
Weir Coeff.	=	3.000000

Weir TW effects (Use adjustment equation)

Structure ID = OF
Structure Type = Weir-Rectangular

# of Openings	=	1
Crest Elev.	=	489.00 ft
Weir Length	=	4.00 ft
Weir Coeff.	=	3.000000

Weir TW effects (Use adjustment equation)

OUTLET STRUCTURE INPUT DATA

Structure ID = TW
Structure Type = TW SETUP, DS Channel

FREE OUTFALL CONDITIONS SPECIFIED

CONVERGENCE TOLERANCES...
Maximum Iterations= 40
Min. TW tolerance = .01 ft
Max. TW tolerance = .01 ft
Min. HW tolerance = .01 ft
Max. HW tolerance = .01 ft
Min. Q tolerance = .00 cfs
Max. Q tolerance = .00 cfs

LEVEL POOL ROUTING DATA

HYG Dir = \\2serverprs\PondPack\Katie-jobs\Countryside\
Inflow HYG file = NONE STORED - POND 10 IN 100
Outflow HYG file = NONE STORED - POND 10 OUT 100

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	486.75 ft
Starting Volume	=	.730 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	1.00 min

Elevation ft	Outflow cfs	Storage ac-ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + O cfs
480.79	.00	.000	1	.00	.00	.00
480.89	.00	.000	31	.00	.00	.04
480.99	.00	.000	104	.00	.00	.26
481.09	.00	.001	219	.00	.00	.78
481.19	.00	.001	377	.00	.00	1.77
481.29	.00	.002	577	.00	.00	3.34
481.39	.00	.004	819	.00	.00	5.66
481.49	.00	.006	1104	.00	.00	8.85
481.59	.00	.009	1431	.00	.00	13.07
481.69	.00	.013	1801	.00	.00	18.44
481.79	.00	.017	2213	.00	.00	25.12
481.89	.00	.023	2667	.00	.00	33.24
481.99	.00	.030	3164	.00	.00	42.95
482.09	.00	.037	3317	.00	.00	53.81
482.19	.00	.045	3431	.00	.00	65.06
482.29	.00	.053	3548	.00	.00	76.69
482.39	.00	.061	3666	.00	.00	88.71
482.49	.00	.070	3786	.00	.00	101.13
482.59	.00	.078	3908	.00	.00	113.95
482.69	.00	.088	4031	.00	.00	127.18

LEVEL POOL ROUTING DATA

HYG Dir = \\2serverprs\PondPack\Katie-jobs\Countryside\
Inflow HYG file = NONE STORED - POND 10 IN 100
Outflow HYG file = NONE STORED - POND 10 OUT 100

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	486.75 ft
Starting Volume	=	.730 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	1.00 min

Elevation ft	Outflow cfs	Storage ac-ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + O cfs
482.79	.00	.097	4157	.00	.00	140.83
482.89	.00	.107	4285	.00	.00	154.90
482.99	.00	.117	4415	.00	.00	169.40
483.09	.00	.127	4546	.00	.00	184.33
483.19	.00	.138	4680	.00	.00	199.71
483.29	.00	.148	4815	.00	.00	215.54
483.39	.00	.160	4953	.00	.00	231.82
483.49	.00	.171	5092	.00	.00	248.56
483.59	.00	.183	5233	.00	.00	265.76
483.69	.00	.195	5377	.00	.00	283.45
483.79	.00	.208	5522	.00	.00	301.61
483.89	.00	.221	5669	.00	.00	320.27
483.99	.00	.234	5818	.00	.00	339.41
484.09	.00	.247	5954	.00	.00	359.03
484.19	.00	.261	6089	.00	.00	379.10
484.29	.00	.275	6226	.00	.00	399.63
484.39	.00	.290	6365	.00	.00	420.61
484.49	.00	.304	6505	.00	.00	442.07
484.59	.00	.320	6647	.00	.00	463.98
484.69	.00	.335	6790	.00	.00	486.38

LEVEL POOL ROUTING DATA

HYG Dir = \\2serverprs\PondPack\Katie-jobs\Countryside\
Inflow HYG file = NONE STORED - POND 10 IN 100
Outflow HYG file = NONE STORED - POND 10 OUT 100

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	486.75 ft
Starting Volume	=	.730 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	1.00 min

Elevation ft	Outflow cfs	Storage ac-ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + O cfs
484.79	.00	.351	6935	.00	.00	509.25
484.89	.00	.367	7081	.00	.00	532.61
484.99	.00	.383	7229	.00	.00	556.46
485.09	.00	.400	7378	.00	.00	580.80
485.19	.00	.417	7529	.00	.00	605.65
485.29	.00	.435	7681	.00	.00	631.00
485.39	.00	.452	7835	.00	.00	656.86
485.49	.00	.471	7991	.00	.00	683.24
485.59	.00	.489	8148	.00	.00	710.13
485.69	.00	.508	8306	.00	.00	737.55
485.79	.00	.527	8466	.00	.00	765.51
485.89	.00	.547	8628	.00	.00	794.00
485.99	.00	.567	8791	.00	.00	823.03
486.09	.00	.587	8940	.00	.00	852.58
486.19	.00	.608	9090	.00	.00	882.63
486.29	.00	.629	9240	.00	.00	913.18
486.39	.00	.650	9392	.00	.00	944.24
486.49	.00	.672	9545	.00	.00	975.80
486.59	.00	.694	9700	.00	.00	1007.87
486.69	.00	.717	9855	.00	.00	1040.46

LEVEL POOL ROUTING DATA

HYG Dir = \\2serverprs\PondPack\Katie-jobs\Countryside\
Inflow HYG file = NONE STORED - POND 10 IN 100
Outflow HYG file = NONE STORED - POND 10 OUT 100

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	486.75 ft
Starting Volume	=	.730 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	1.00 min

Elevation ft	Outflow cfs	Storage ac-ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + O cfs
486.75	.00	.730	9949	.00	.00	1060.27
486.79	.01	.739	10012	.00	.01	1073.59
486.89	.08	.763	10170	.00	.08	1107.29
486.99	.18	.786	10330	.00	.18	1141.56
487.09	.30	.810	10490	.00	.30	1176.37
487.19	.44	.834	10652	.00	.44	1211.75
487.29	.65	.859	10815	.00	.65	1247.74
487.39	.75	.884	10979	.00	.75	1284.17
487.49	.84	.909	11145	.00	.84	1321.14
487.59	.92	.935	11311	.00	.92	1358.64
487.69	1.00	.961	11479	.00	1.00	1396.70
487.79	1.07	.988	11649	.00	1.07	1435.32
487.89	1.14	1.015	11819	.00	1.14	1474.50
487.99	1.20	1.042	11991	.00	1.20	1514.24
488.09	1.26	1.070	12153	.00	1.26	1554.53
488.19	1.31	1.098	12315	.00	1.31	1595.37
488.29	1.37	1.126	12478	.00	1.37	1636.75
488.39	1.42	1.155	12642	.00	1.42	1678.67
488.49	1.47	1.184	12808	.00	1.47	1721.14
488.59	1.52	1.214	12974	.00	1.52	1764.15

LEVEL POOL ROUTING DATA

HYG Dir = \\2serverprs\PondPack\Katie-jobs\Countryside\
Inflow HYG file = NONE STORED - POND 10 IN 100
Outflow HYG file = NONE STORED - POND 10 OUT 100

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	486.75 ft
Starting Volume	=	.730 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	1.00 min

Elevation ft	Outflow cfs	Storage ac-ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + O cfs
488.69	1.56	1.244	13142	.00	1.56	1807.72
488.79	1.61	1.274	13310	.00	1.61	1851.86
488.89	1.65	1.305	13480	.00	1.65	1896.55
488.99	1.70	1.336	13650	.00	1.70	1941.82
489.00	1.70	1.339	13667	.00	1.70	1946.36
489.09	2.06	1.368	13822	.00	2.06	1987.96
489.19	2.77	1.400	13995	.00	2.77	2035.03
489.29	3.69	1.432	14169	.00	3.69	2082.90
489.39	4.78	1.465	14344	.00	4.78	2131.51
489.49	6.01	1.498	14520	.00	6.01	2180.85
489.59	7.37	1.531	14697	.00	7.37	2230.89
489.69	8.85	1.565	14875	.00	8.85	2281.66
489.79	10.44	1.600	15054	.00	10.44	2333.12
489.89	12.12	1.634	15235	.00	12.12	2385.29
489.99	13.90	1.670	15416	.00	13.90	2438.16
490.09	15.77	1.705	15590	.00	15.77	2491.70
490.19	17.73	1.741	15765	.00	17.73	2545.91
490.29	19.76	1.778	15940	.00	19.76	2600.79
490.39	21.88	1.814	16116	.00	21.88	2656.34
490.49	24.07	1.852	16293	.00	24.07	2712.55

LEVEL POOL ROUTING DATA

HYG Dir = \\2serverprs\PondPack\Katie-jobs\Countryside\
Inflow HYG file = NONE STORED - POND 10 IN 100
Outflow HYG file = NONE STORED - POND 10 OUT 100

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev = 486.75 ft
Starting Volume = .730 ac-ft
Starting Outflow = .00 cfs
Starting Infiltr. = .00 cfs
Starting Total Qout= .00 cfs
Time Increment = 1.00 min

Elevation ft	Outflow cfs	Storage ac-ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + O cfs
490.59	26.34	1.889	16471	.00	26.34	2769.41
490.69	28.68	1.927	16651	.00	28.68	2826.95
490.79	31.08	1.966	16831	.00	31.08	2885.17
490.89	33.55	2.004	17012	.00	33.55	2944.05
490.99	36.09	2.044	17194	.00	36.09	3003.60
491.09	38.69	2.083	17377	.00	38.69	3063.80
491.19	41.35	2.124	17561	.00	41.35	3124.70
491.29	44.08	2.164	17746	.00	44.08	3186.27
491.39	46.86	2.205	17932	.00	46.86	3248.52
491.49	49.70	2.246	18119	.00	49.70	3311.44
491.59	52.60	2.288	18307	.00	52.60	3375.03
491.69	55.55	2.330	18495	.00	55.55	3439.33
491.79	58.56	2.373	18685	.00	58.56	3504.30
491.89	61.62	2.416	18876	.00	61.62	3569.97
491.99	64.73	2.460	19068	.00	64.73	3636.33
492.00	65.04	2.464	19087	.00	65.04	3642.99

LEVEL POOL ROUTING SUMMARY

HYG Dir = \\2serverprs\PondPack\Katie-jobs\Countryside\
Inflow HYG file = NONE STORED - POND 10 IN 100
Outflow HYG file = NONE STORED - POND 10 OUT 100

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = OUTFALL

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	486.75 ft
Starting Volume	=	.730 ac-ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow	=	49.00 cfs	at	5.00 min
Peak Outflow	=	22.94 cfs	at	23.00 min
Peak Elevation	=	490.44 ft		
Peak Storage	=	1.832 ac-ft		

MASS BALANCE (ac-ft)

+ Initial Vol	=	.730
+ HYG Vol IN	=	1.350
- Infiltration	=	.000
- HYG Vol OUT	=	1.347
- Retained Vol	=	.732
Unrouted Vol	=	-.000 ac-ft (.000% of Inflow Volume)

POND ROUTED TOTAL OUTFLOW HYG...
HYG file =
HYG ID = POND 10 OUT
HYG Tag = 100

Peak Discharge =	22.94 cfs
Time to Peak =	23.00 min
HYG Volume =	1.347 ac-ft

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
.00	.00	.01	.06	.20	.47
5.00	.80	1.01	1.17	1.31	1.43
10.00	1.54	1.63	1.92	3.37	5.43
15.00	7.77	10.25	12.77	15.25	17.67
20.00	20.00	21.84	22.81	22.94	22.30
25.00	20.96	19.37	17.93	16.63	15.44
30.00	14.37	13.38	12.48	11.66	10.91
35.00	10.21	9.58	8.99	8.46	7.97
40.00	7.51	7.09	6.70	6.34	6.00
45.00	5.70	5.41	5.14	4.89	4.66
50.00	4.45	4.25	4.06	3.88	3.70
55.00	3.56	3.42	3.29	3.16	3.04
60.00	2.93	2.81	2.72	2.64	2.56
65.00	2.48	2.41	2.33	2.26	2.19
70.00	2.13	2.06	2.03	1.99	1.96
75.00	1.92	1.89	1.86	1.83	1.79
80.00	1.76	1.73	1.70	1.70	1.70
85.00	1.69	1.69	1.69	1.68	1.68
90.00	1.68	1.67	1.67	1.67	1.66
95.00	1.66	1.66	1.65	1.65	1.65
100.00	1.64	1.64	1.64	1.63	1.63
105.00	1.63	1.62	1.62	1.62	1.61
110.00	1.61	1.61	1.60	1.60	1.60
115.00	1.59	1.59	1.59	1.59	1.58
120.00	1.58	1.58	1.57	1.57	1.57
125.00	1.56	1.56	1.56	1.55	1.55
130.00	1.55	1.54	1.54	1.54	1.53
135.00	1.53	1.53	1.52	1.52	1.52
140.00	1.51	1.51	1.51	1.50	1.50
145.00	1.50	1.49	1.49	1.49	1.48
150.00	1.48	1.48	1.47	1.47	1.46

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
155.00	1.46	1.46	1.45	1.45	1.45
160.00	1.44	1.44	1.44	1.43	1.43
165.00	1.43	1.42	1.42	1.42	1.41
170.00	1.41	1.41	1.40	1.40	1.40
175.00	1.39	1.39	1.39	1.38	1.38
180.00	1.38	1.37	1.37	1.37	1.36
185.00	1.36	1.35	1.35	1.35	1.34
190.00	1.34	1.34	1.33	1.33	1.33
195.00	1.32	1.32	1.32	1.31	1.31
200.00	1.31	1.30	1.30	1.29	1.29
205.00	1.29	1.28	1.28	1.28	1.27
210.00	1.27	1.27	1.26	1.26	1.26
215.00	1.25	1.25	1.25	1.24	1.24
220.00	1.23	1.23	1.23	1.22	1.22
225.00	1.22	1.21	1.21	1.21	1.20
230.00	1.20	1.19	1.19	1.19	1.18
235.00	1.18	1.18	1.17	1.17	1.17
240.00	1.16	1.16	1.15	1.15	1.15
245.00	1.14	1.14	1.14	1.13	1.13
250.00	1.13	1.12	1.12	1.11	1.11
255.00	1.11	1.10	1.10	1.10	1.09
260.00	1.09	1.08	1.08	1.08	1.07
265.00	1.07	1.07	1.06	1.06	1.05
270.00	1.05	1.05	1.04	1.04	1.04
275.00	1.03	1.03	1.02	1.02	1.02
280.00	1.01	1.01	1.01	1.00	1.00
285.00	.99	.99	.99	.98	.98
290.00	.98	.97	.97	.96	.96
295.00	.96	.95	.95	.94	.94
300.00	.94	.93	.93	.93	.92
305.00	.92	.91	.91	.91	.90
310.00	.90	.89	.89	.89	.88
315.00	.88	.88	.87	.87	.86
320.00	.86	.86	.85	.85	.84
325.00	.84	.84	.83	.83	.82
330.00	.82	.82	.81	.81	.80
335.00	.80	.80	.79	.79	.78
340.00	.78	.78	.77	.77	.77
345.00	.76	.76	.75	.75	.75
350.00	.74	.74	.73	.73	.73
355.00	.72	.72	.71	.71	.71
360.00	.70	.70	.69	.69	.69
365.00	.68	.68	.67	.67	.67
370.00	.66	.66	.65	.65	.65
375.00	.64	.63	.62	.62	.61

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
380.00	.60	.60	.59	.58	.58
385.00	.57	.56	.56	.55	.54
390.00	.54	.53	.52	.52	.51
395.00	.51	.50	.49	.49	.48
400.00	.48	.47	.47	.46	.45
405.00	.45	.44	.44	.44	.43
410.00	.43	.42	.42	.42	.41
415.00	.41	.41	.41	.40	.40
420.00	.40	.39	.39	.39	.38
425.00	.38	.38	.37	.37	.37
430.00	.37	.36	.36	.36	.35
435.00	.35	.35	.35	.34	.34
440.00	.34	.33	.33	.33	.33
445.00	.32	.32	.32	.32	.31
450.00	.31	.31	.31	.30	.30
455.00	.30	.30	.29	.29	.29
460.00	.29	.29	.28	.28	.28
465.00	.28	.28	.27	.27	.27
470.00	.27	.27	.27	.26	.26
475.00	.26	.26	.26	.25	.25
480.00	.25	.25	.25	.25	.24
485.00	.24	.24	.24	.24	.24
490.00	.23	.23	.23	.23	.23
495.00	.23	.22	.22	.22	.22
500.00	.22	.22	.22	.21	.21
505.00	.21	.21	.21	.21	.21
510.00	.20	.20	.20	.20	.20
515.00	.20	.20	.19	.19	.19
520.00	.19	.19	.19	.19	.18
525.00	.18	.18	.18	.18	.18
530.00	.18	.18	.18	.17	.17
535.00	.17	.17	.17	.17	.17
540.00	.17	.17	.17	.16	.16
545.00	.16	.16	.16	.16	.16
550.00	.16	.16	.16	.16	.15
555.00	.15	.15	.15	.15	.15
560.00	.15	.15	.15	.15	.15
565.00	.14	.14	.14	.14	.14
570.00	.14	.14	.14	.14	.14
575.00	.14	.14	.14	.13	.13
580.00	.13	.13	.13	.13	.13
585.00	.13	.13	.13	.13	.13
590.00	.13	.12	.12	.12	.12
595.00	.12	.12	.12	.12	.12
600.00	.12	.12	.12	.12	.12

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
605.00	.12	.11	.11	.11	.11
610.00	.11	.11	.11	.11	.11
615.00	.11	.11	.11	.11	.11
620.00	.11	.11	.10	.10	.10
625.00	.10	.10	.10	.10	.10
630.00	.10	.10	.10	.10	.10
635.00	.10	.10	.10	.10	.09
640.00	.09	.09	.09	.09	.09
645.00	.09	.09	.09	.09	.09
650.00	.09	.09	.09	.09	.09
655.00	.09	.09	.09	.09	.08
660.00	.08	.08	.08	.08	.08
665.00	.08	.08	.08	.08	.08
670.00	.08	.08	.08	.08	.08
675.00	.08	.08	.08	.08	.08
680.00	.08	.08	.08	.08	.07
685.00	.07	.07	.07	.07	.07
690.00	.07	.07	.07	.07	.07
695.00	.07	.07	.07	.07	.07
700.00	.07	.07	.07	.07	.07
705.00	.07	.07	.07	.07	.07
710.00	.07	.07	.07	.07	.07
715.00	.07	.07	.07	.07	.07
720.00	.06	.06	.06	.06	.06
725.00	.06	.06	.06	.06	.06
730.00	.06	.06	.06	.06	.06
735.00	.06	.06	.06	.06	.06
740.00	.06	.06	.06	.06	.06
745.00	.06	.06	.06	.06	.06
750.00	.06	.06	.06	.06	.06
755.00	.06	.06	.06	.06	.06
760.00	.06	.06	.06	.05	.05
765.00	.05	.05	.05	.05	.05
770.00	.05	.05	.05	.05	.05
775.00	.05	.05	.05	.05	.05
780.00	.05	.05	.05	.05	.05
785.00	.05	.05	.05	.05	.05
790.00	.05	.05	.05	.05	.05
795.00	.05	.05	.05	.05	.05
800.00	.05	.05	.05	.05	.05
805.00	.05	.05	.05	.05	.05
810.00	.05	.05	.05	.04	.04
815.00	.04	.04	.04	.04	.04
820.00	.04	.04	.04	.04	.04
825.00	.04	.04	.04	.04	.04

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
830.00	.04	.04	.04	.04	.04
835.00	.04	.04	.04	.04	.04
840.00	.04	.04	.04	.04	.04
845.00	.04	.04	.04	.04	.04
850.00	.04	.04	.04	.04	.04
855.00	.04	.04	.04	.04	.04
860.00	.04	.04	.04	.04	.04
865.00	.04	.04	.04	.04	.04
870.00	.04	.04	.04	.04	.04
875.00	.04	.04	.03	.03	.03
880.00	.03	.03	.03	.03	.03
885.00	.03	.03	.03	.03	.03
890.00	.03	.03	.03	.03	.03
895.00	.03	.03	.03	.03	.03
900.00	.03	.03	.03	.03	.03
905.00	.03	.03	.03	.03	.03
910.00	.03	.03	.03	.03	.03
915.00	.03	.03	.03	.03	.03
920.00	.03	.03	.03	.03	.03
925.00	.03	.03	.03	.03	.03
930.00	.03	.03	.03	.03	.03
935.00	.03	.03	.03	.03	.03
940.00	.03	.03	.03	.03	.03
945.00	.03	.03	.03	.03	.03
950.00	.03	.03	.03	.03	.03
955.00	.03	.03	.03	.03	.03
960.00	.03	.03	.02	.02	.02
965.00	.02	.02	.02	.02	.02
970.00	.02	.02	.02	.02	.02
975.00	.02	.02	.02	.02	.02
980.00	.02	.02	.02	.02	.02
985.00	.02	.02	.02	.02	.02
990.00	.02	.02	.02	.02	.02
995.00	.02	.02	.02	.02	.02
1000.00	.02	.02	.02	.02	.02
1005.00	.02	.02	.02	.02	.02
1010.00	.02	.02	.02	.02	.02
1015.00	.02	.02	.02	.02	.02
1020.00	.02	.02	.02	.02	.02
1025.00	.02	.02	.02	.02	.02
1030.00	.02	.02	.02	.02	.02
1035.00	.02	.02	.02	.02	.02
1040.00	.02	.02	.02	.02	.02
1045.00	.02	.02	.02	.02	.02
1050.00	.02	.02	.02	.02	.02

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
1055.00	.02	.02	.02	.02	.02
1060.00	.02	.02	.02	.02	.02
1065.00	.02	.02	.02	.02	.02
1070.00	.02	.02	.02	.02	.02
1075.00	.02	.02	.02	.02	.02
1080.00	.02	.02	.02	.02	.02
1085.00	.02	.02	.02	.02	.02
1090.00	.02	.01	.01	.01	.01
1095.00	.01	.01	.01	.01	.01
1100.00	.01	.01	.01	.01	.01
1105.00	.01	.01	.01	.01	.01
1110.00	.01	.01	.01	.01	.01
1115.00	.01	.01	.01	.01	.01
1120.00	.01	.01	.01	.01	.01
1125.00	.01	.01	.01	.01	.01
1130.00	.01	.01	.01	.01	.01
1135.00	.01	.01	.01	.01	.01
1140.00	.01	.01	.01	.01	.01
1145.00	.01	.01	.01	.01	.01
1150.00	.01	.01	.01	.01	.01
1155.00	.01	.01	.01	.01	.01
1160.00	.01	.01	.01	.01	.01
1165.00	.01	.01	.01	.01	.01
1170.00	.01	.01	.01	.01	.01
1175.00	.01	.01	.01	.01	.01
1180.00	.01	.01	.01	.01	.01
1185.00	.01	.01	.01	.01	.01
1190.00	.01	.01	.01	.01	.01
1195.00	.01	.01	.01	.01	.01
1200.00	.01	.01	.01	.01	.01
1205.00	.01	.01	.01	.01	.01
1210.00	.01	.01	.01	.01	.01
1215.00	.01	.01	.01	.01	.01
1220.00	.01	.01	.01	.01	.01
1225.00	.01	.01	.01	.01	.01
1230.00	.01	.01	.01	.01	.01
1235.00	.01	.01	.01	.01	.01
1240.00	.01	.01	.01	.01	.01
1245.00	.01	.01	.01	.01	.01
1250.00	.01	.01	.01	.01	.01
1255.00	.01	.01	.01	.01	.01
1260.00	.01	.01	.01	.01	.01
1265.00	.01	.01	.01	.01	.01
1270.00	.01	.01	.01	.01	.01
1275.00	.01	.01	.01	.01	.01

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
1280.00	.01	.01	.01	.01	.01
1285.00	.01	.01	.01	.01	.01
1290.00	.01	.01	.01	.01	.01
1295.00	.01	.01	.01	.01	.01
1300.00	.01	.01	.01	.01	.01
1305.00	.01	.01	.01	.01	.01
1310.00	.01	.01	.01	.01	.01
1315.00	.01	.01	.01	.01	.01
1320.00	.01	.01	.01	.01	.01
1325.00	.01	.01	.01	.01	.01
1330.00	.01	.01	.01	.01	.01
1335.00	.01	.01	.01	.01	.01
1340.00	.01	.01	.01	.01	.01
1345.00	.01	.01	.01	.01	.01
1350.00	.01	.01	.01	.01	.01
1355.00	.01	.01	.01	.01	.01
1360.00	.01	.01	.01	.01	.01
1365.00	.01	.01	.01	.01	.01
1370.00	.01	.01	.01	.01	.01
1375.00	.01	.01	.01	.01	.01
1380.00	.01	.01	.01	.01	.01
1385.00	.01	.01	.01	.01	.01
1390.00	.01	.01	.01	.01	.01
1395.00	.01	.01	.01	.01	.01
1400.00	.01	.01	.01	.01	.01
1405.00	.01	.01	.01	.01	.01
1410.00	.01	.01	.01	.01	.01
1415.00	.01	.01	.01	.01	.01
1420.00	.01	.01	.01	.01	.01
1425.00	.01	.01	.01	.01	.01
1430.00	.01	.01	.01	.01	.01
1435.00	.01	.01	.01	.01	.01
1440.00	.01	.01	.01	.01	.01
1445.00	.01	.01	.01	.01	.01
1450.00	.01	.01	.01	.01	.01
1455.00	.01	.01	.01	.01	.01
1460.00	.01	.01	.01	.01	.01
1465.00	.01	.01	.01	.01	.01
1470.00	.01	.01	.01	.01	.01
1475.00	.01	.01	.01	.01	.01
1480.00	.01	.01	.01	.01	.01
1485.00	.01	.01	.01	.01	.01
1490.00	.01	.01	.01	.01	.01
1495.00	.01	.01	.01	.01	.01
1500.00	.01	.01	.01	.01	.01

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
1505.00	.01	.01	.01	.01	.01
1510.00	.01	.01	.01	.01	.01
1515.00	.01	.01	.01	.01	.01
1520.00	.01	.01	.01	.01	.01
1525.00	.01	.01	.01	.01	.01
1530.00	.01	.01	.01	.01	.01
1535.00	.01	.01	.01	.01	.01
1540.00	.01	.01	.01	.01	.01
1545.00	.01	.01	.01	.01	.01
1550.00	.01	.01	.01	.01	.01
1555.00	.01	.01	.01	.01	.01
1560.00	.01	.01	.01	.01	.01
1565.00	.01	.01	.01	.01	.01
1570.00	.01	.01	.01	.01	.01
1575.00	.01	.01	.01	.01	.01
1580.00	.01	.01	.01	.01	.01
1585.00	.01	.01	.01	.01	.01
1590.00	.01	.01	.01	.01	.01
1595.00	.01	.01	.01	.01	.01
1600.00	.01	.01	.01	.01	.01
1605.00	.01	.01	.01	.01	.01
1610.00	.01	.01	.01	.01	.01
1615.00	.01	.01	.01	.01	.01
1620.00	.01	.01	.01	.01	.01
1625.00	.01	.01	.01	.01	.01
1630.00	.01	.01	.01	.00	.00
1635.00	.00	.00	.00	.00	.00
1640.00	.00	.00	.00	.00	.00
1645.00	.00	.00	.00	.00	.00
1650.00	.00	.00	.00	.00	.00
1655.00	.00	.00	.00	.00	.00
1660.00	.00	.00	.00	.00	.00
1665.00	.00	.00	.00	.00	.00
1670.00	.00	.00	.00	.00	.00
1675.00	.00	.00	.00	.00	.00
1680.00	.00	.00	.00	.00	.00
1685.00	.00	.00	.00	.00	.00
1690.00	.00	.00	.00	.00	.00
1695.00	.00	.00	.00	.00	.00
1700.00	.00	.00	.00	.00	.00
1705.00	.00	.00	.00	.00	.00
1710.00	.00	.00	.00	.00	.00
1715.00	.00	.00	.00	.00	.00
1720.00	.00	.00	.00	.00	.00
1725.00	.00	.00	.00	.00	.00

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
1730.00	.00	.00	.00	.00	.00
1735.00	.00	.00	.00	.00	.00
1740.00	.00	.00	.00	.00	.00
1745.00	.00	.00	.00	.00	.00
1750.00	.00	.00	.00	.00	.00
1755.00	.00	.00	.00	.00	.00
1760.00	.00	.00	.00	.00	.00
1765.00	.00	.00	.00	.00	.00
1770.00	.00	.00	.00	.00	.00
1775.00	.00	.00	.00	.00	.00
1780.00	.00	.00	.00	.00	.00
1785.00	.00	.00	.00	.00	.00
1790.00	.00	.00	.00	.00	.00
1795.00	.00	.00	.00	.00	.00
1800.00	.00	.00	.00	.00	.00
1805.00	.00	.00	.00	.00	.00
1810.00	.00	.00	.00	.00	.00
1815.00	.00	.00	.00	.00	.00
1820.00	.00	.00	.00	.00	.00
1825.00	.00	.00	.00	.00	.00
1830.00	.00	.00	.00	.00	.00
1835.00	.00	.00	.00	.00	.00
1840.00	.00	.00	.00	.00	.00
1845.00	.00	.00	.00	.00	.00
1850.00	.00	.00	.00	.00	.00
1855.00	.00	.00	.00	.00	.00
1860.00	.00	.00	.00	.00	.00
1865.00	.00	.00	.00	.00	.00
1870.00	.00	.00	.00	.00	.00
1875.00	.00	.00	.00	.00	.00
1880.00	.00	.00	.00	.00	.00
1885.00	.00	.00	.00	.00	.00
1890.00	.00	.00	.00	.00	.00
1895.00	.00	.00	.00	.00	.00
1900.00	.00	.00	.00	.00	.00
1905.00	.00	.00	.00	.00	.00
1910.00	.00	.00	.00	.00	.00
1915.00	.00	.00			

Index of Starting Page Numbers for ID Names