

Hydrological Study Summary

Prestige Fitness Gym

1.91 acres at 4422 Kalani Dr.
Diamond Head, MS
Harrison County

The drainage calculations are based on the Rational Method for comparing quantities of Storm water runoff. The rational method is based on the following:

$$Q = CIA$$

Q = peak runoff rate, cfs

I = average rainfall intensity

A = drainage area, acres



1.0 Summary of Hydrograph Flows

1. Existing Conditions:

Area = 1.91 acres

Tc = 16 min (see TR 55 sheet)

C = 0.35

100 – Year Storm

Total Pre-Existing Flow = 6.14 cfs

2. Post Construction Area 2

Area = 1.91 acres

Tc = 10 min (minimum)

C = 0.75

100 – Year Storm

Total Post-Construction Flow = 16.28 cfs

Flow is directed to proposed detention pond and discharged with an 9” orifice

Pond Outflow = 5.37 cfs

2.0 Conclusion

100 – Year Storm

Pre-Existing Flow = 6.14 cfs

Post Construction = 5.37 cfs

$(6.14-5.37)/6.14 = 13\%$ reduction

48.80 max elevation

3.0 Appendices

Appendix A - Hydrograph Reports 2, 5, 10, 25, 50, 100 yr storm

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Hydrograph 2-yr Summary

Project Name: Prestige Fitness Club

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07-01-2022

Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Flow (cfs)	Time to Peak (hrs)	Hydrograph Volume (cuft)	Inflow Hyd(s)	Maximum Elevation (ft)	Maximum Storage (cuft)
1	Rational	Pre Existing	3.051	0.27	2,929	---		
2	Rational	Post Construction	8.140	0.17	4,884	---		
3	Pond Route	Pond	2.896	0.27	4,883	2	42.68	3,046

Hydrograph Report

Project Name: Prestige Fitness Club

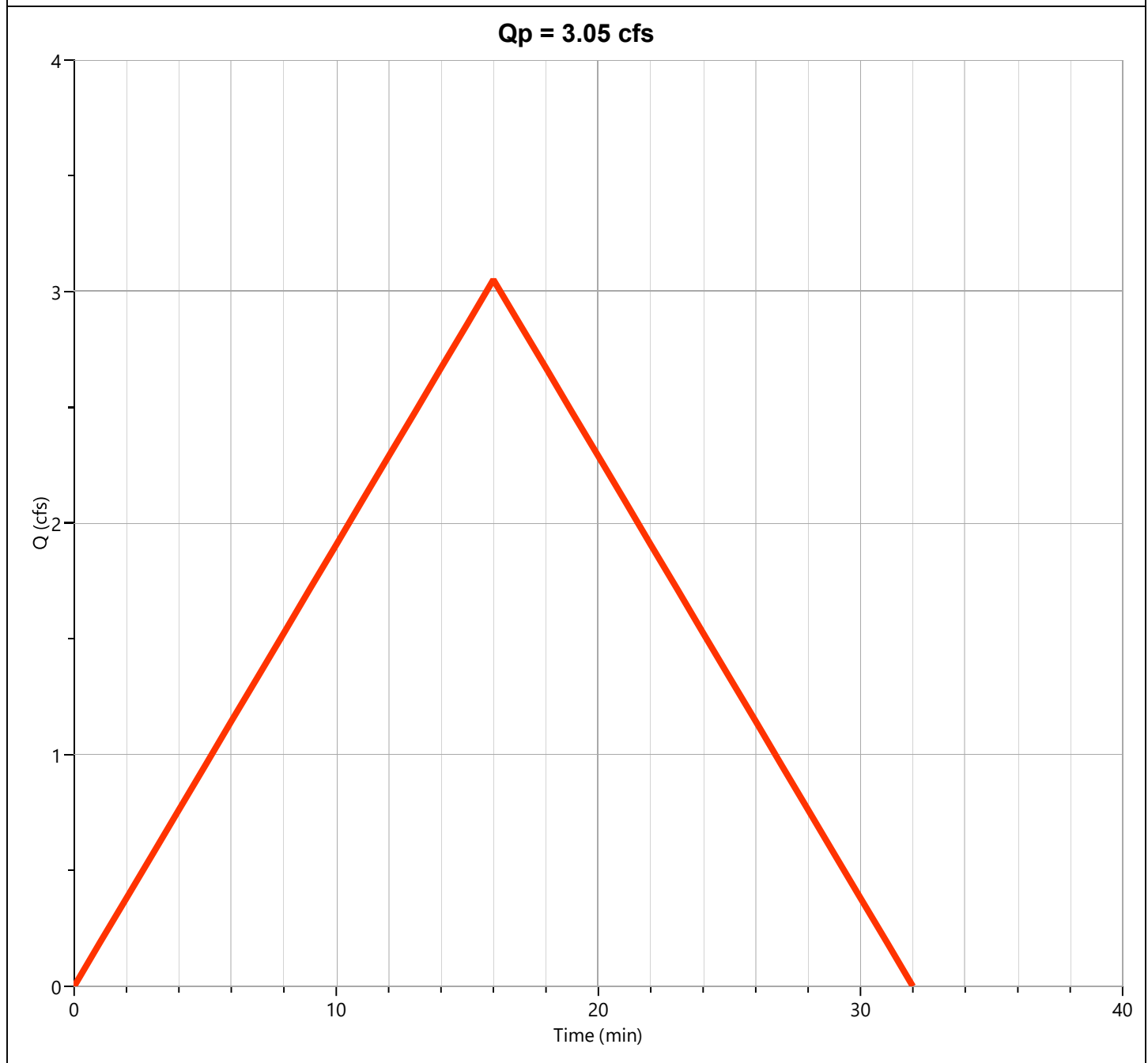
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07-01-2022

Pre Existing

Hyd. No. 1

Hydrograph Type	= Rational	Peak Flow	= 3.051 cfs
Storm Frequency	= 2-yr	Time to Peak	= 0.27 hrs
Time Interval	= 1 min	Runoff Volume	= 2,929 cuft
Drainage Area	= 1.91 ac	Runoff Coeff.	= 0.35
Tc Method	= TR55 (See Worksheet)	Time of Conc. (Tc)	= 16.0 min
IDF Curve	= mississippi.idf	Intensity	= 4.56 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1



Hydrograph Discharge Table

Existing

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
1	0.191								
2	0.381								
3	0.572								
4	0.763								
5	0.953								
6	1.144								
7	1.335								
8	1.526								
9	1.716								
10	1.907								
11	2.098								
12	2.288								
13	2.479								
14	2.670								
15	2.860								
16	3.051								
17	2.860								
18	2.670								
19	2.479								
20	2.288								
21	2.098								
22	1.907								
23	1.716								
24	1.526								
25	1.335								
26	1.144								
27	0.953								
28	0.763								
29	0.572								
30	0.381								
31	0.191								
32	0.000								
...end	...end								

Tc by TR55 Worksheet

Existing Rational

Hyd. No. 1

Description	Segments			Tc (min)
	A	B	C	
Sheet Flow				
Description				
Manning's n	0.250	0.013	0.013	
Flow Length (ft)	100			
2-yr, 24-hr Precip. (in)	5.22	5.22	5.22	
Land Slope (%)	2			
Travel Time (min)	11.54	0.00	0.00	11.54
Shallow Concentrated Flow				
Flow Length (ft)	400			
Watercourse Slope (%)	1.00	0.00	0.00	
Surface Description	Unpaved	Paved	Paved	
Average Velocity (ft/s)	1.61			
Travel Time (min)	4.13	0.00	0.00	4.13
Channel Flow				
X-sectional Flow Area (sqft)				
Wetted Perimeter (ft)				
Channel Slope (%)				
Manning's n	0.013	0.013	0.013	
Velocity (ft/s)				
Flow Length (ft)				
Travel Time (min)	0.00	0.00	0.00	0.00
Total Travel Time				16 min

Hydrograph Report

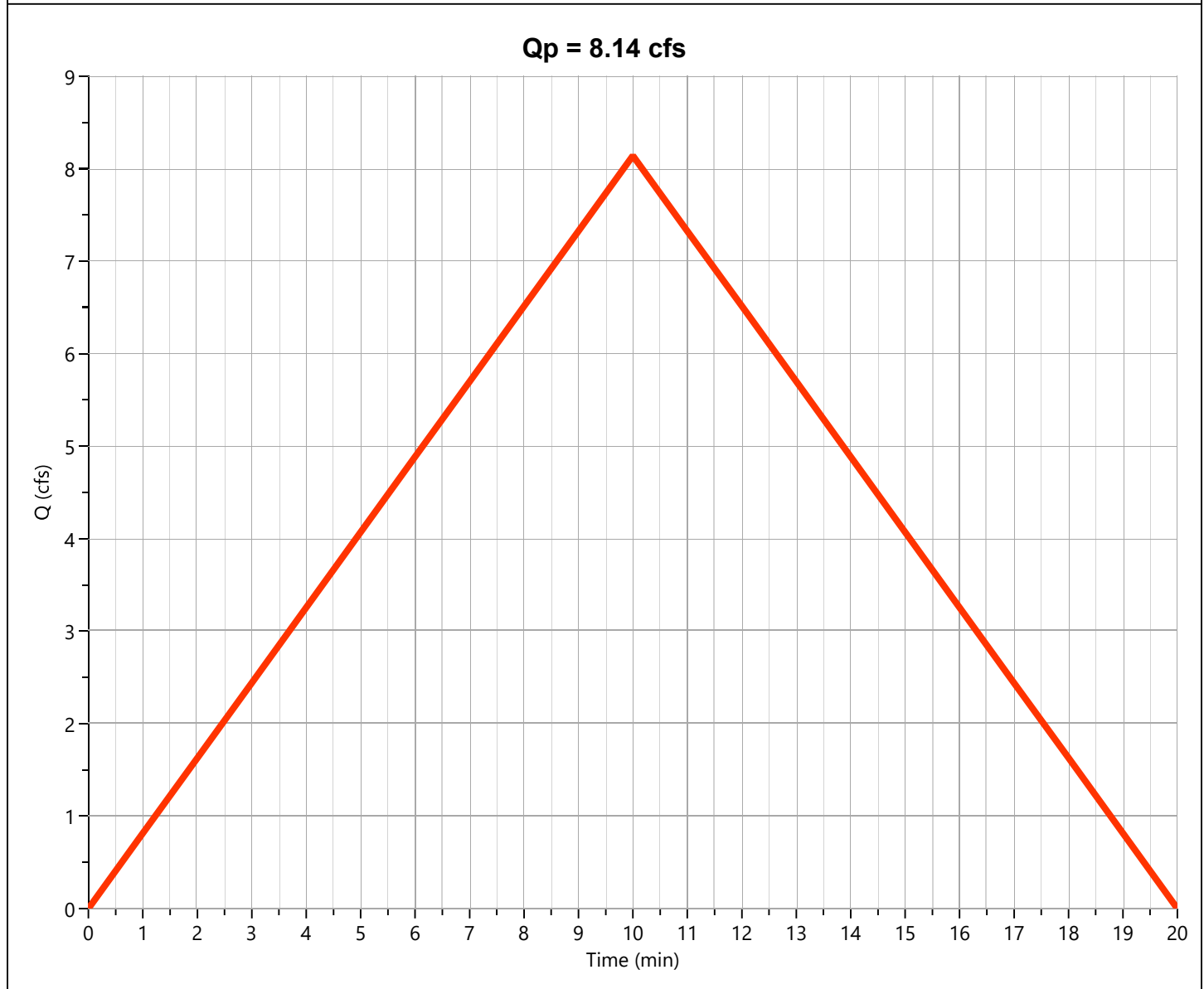
Post Construction

Hyd. No. 2

Hydrograph Type	= Rational	Peak Flow	= 8.140 cfs
Storm Frequency	= 2-yr	Time to Peak	= 0.17 hrs
Time Interval	= 1 min	Runoff Volume	= 4,884 cuft
Drainage Area	= 1.91 ac	Runoff Coeff.	= 0.75*
Tc Method	= User	Time of Conc. (Tc)	= 10.0 min
IDF Curve	= mississippi.idf	Intensity	= 5.68 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1

* Composite C Worksheet

AREA (ac)	C	DESCRIPTION
0.4	0.35	green
1.51	0.85	pave
1.91	0.75	



Hydrograph Report

Pond

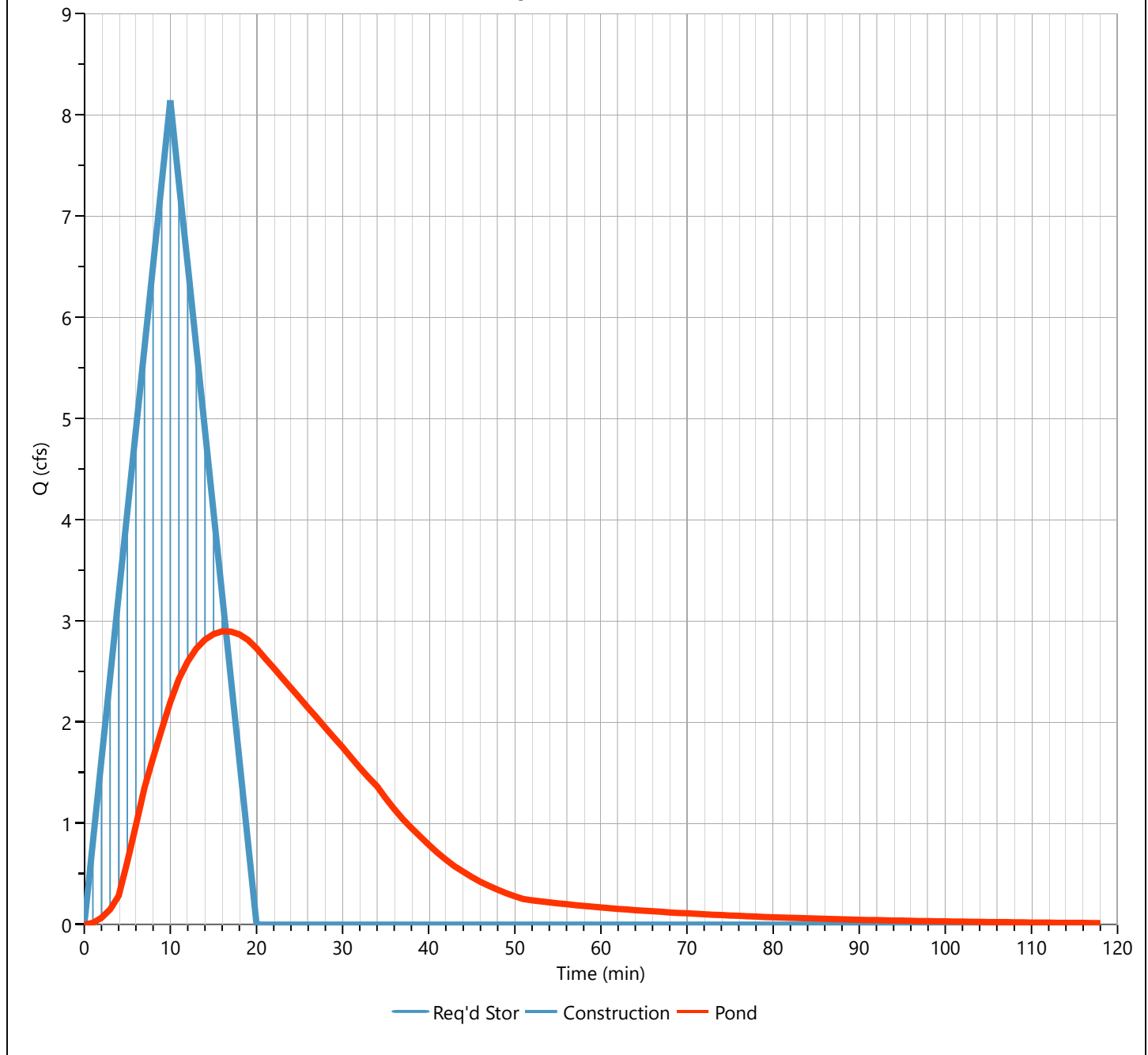
Hyd. No. 3

Hydrograph Type	= Pond Route	Peak Flow	= 2.896 cfs
Storm Frequency	= 2-yr	Time to Peak	= 0.27 hrs
Time Interval	= 1 min	Hydrograph Volume	= 4,883 cuft
Inflow Hydrograph	= 2 - Construction	Max. Elevation	= 42.68 ft
Pond Name	= Pond	Max. Storage	= 3,046 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 15 min

Qp = 2.90 cfs



Hydrograph Discharge Table

Pond

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
2	0.067	38	0.952	74	0.093				
3	0.150	39	0.870	75	0.089				
4	0.285	40	0.788	76	0.085				
5	0.619	41	0.710	77	0.082				
6	0.980	42	0.640	78	0.078				
7	1.351	43	0.577	79	0.075				
8	1.646	44	0.520	80	0.072				
9	1.927	45	0.469	81	0.069				
10	2.196	46	0.422	82	0.066				
11	2.426	47	0.381	83	0.063				
12	2.597	48	0.343	84	0.061				
13	2.725	49	0.309	85	0.058				
14	2.813	50	0.279	86	0.056				
15	2.869	51	0.251	87	0.053				
16	2.896	52	0.238	88	0.051				
17	2.894	53	0.228	89	0.049				
18	2.865	54	0.218	90	0.047				
19	2.810	55	0.209	91	0.045				
20	2.728	56	0.200	92	0.043				
21	2.628	57	0.192	93	0.041				
22	2.533	58	0.184	94	0.040				
23	2.433	59	0.176	95	0.038				
24	2.336	60	0.169	96	0.036				
25	2.238	61	0.162	97	0.035				
26	2.139	62	0.155	98	0.033				
27	2.045	63	0.149	99	0.032				
28	1.944	64	0.142	100	0.031				
29	1.845	65	0.136	101	0.029				
30	1.752	66	0.131	102	0.028				
31	1.650	67	0.125	...end	...end				
32	1.549	68	0.120						
33	1.454	69	0.115						
34	1.365	70	0.110						
35	1.248	71	0.106						
36	1.141	72	0.101						
37	1.042	73	0.097						

Pond Report

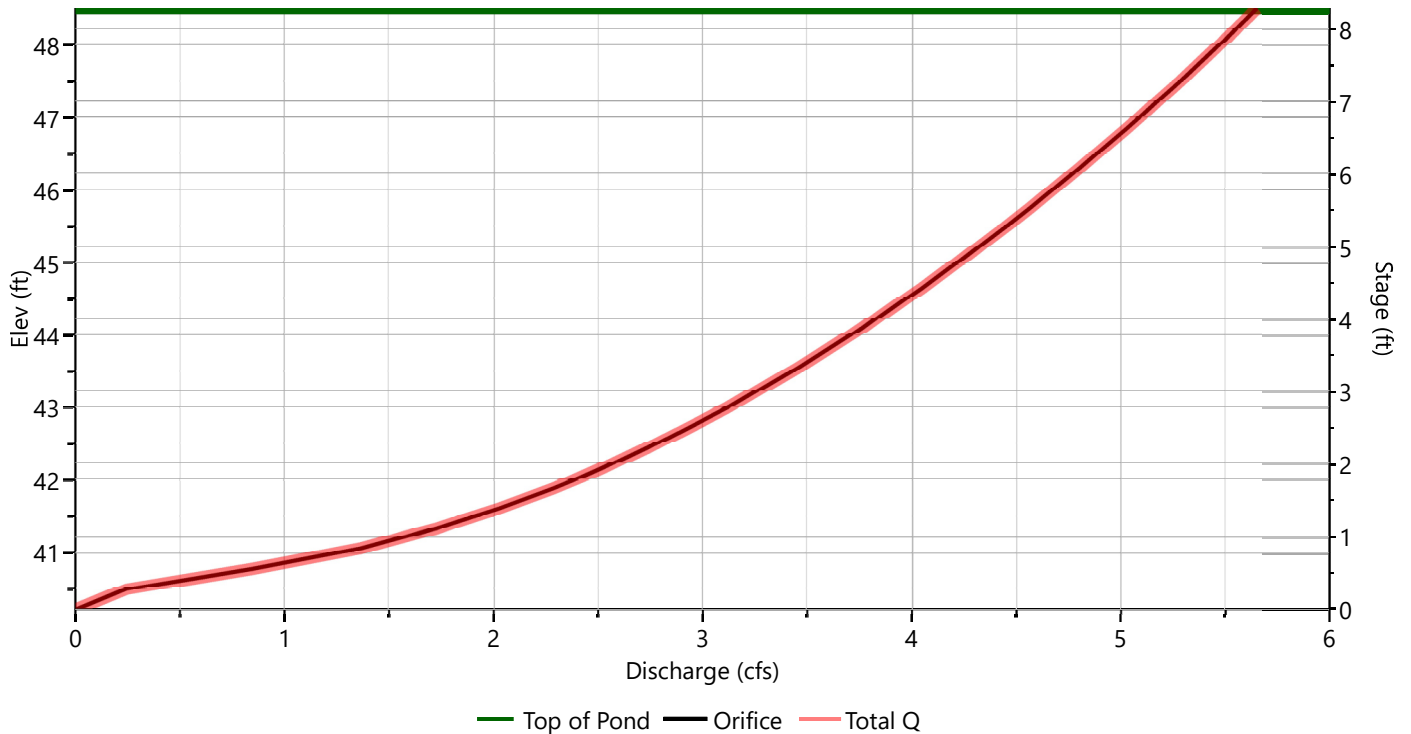
Pond

Stage-Discharge

Culvert / Orifices	Culvert	Orifices			Perforated Riser
		1	2	3	
Rise, in		8.75			Hole Diameter, in
Span, in		8.75			No. holes
No. Barrels		1			Invert Elevation, ft
Invert Elevation, ft		40.23			Height, ft
Orifice Coefficient, Co		0.60			Orifice Coefficient, Co
Length, ft					
Barrel Slope, %					
N-Value, n	0.000				
Weirs	Riser*	Weirs			Ancillary
		1	2	3	
Shape / Type					Exfiltration, in/hr
Crest Elevation, ft					
Crest Length, ft					
Angle, deg					
Weir Coefficient, Cw					

*Routes through Culvert.

Stage-Discharge



Pond Report

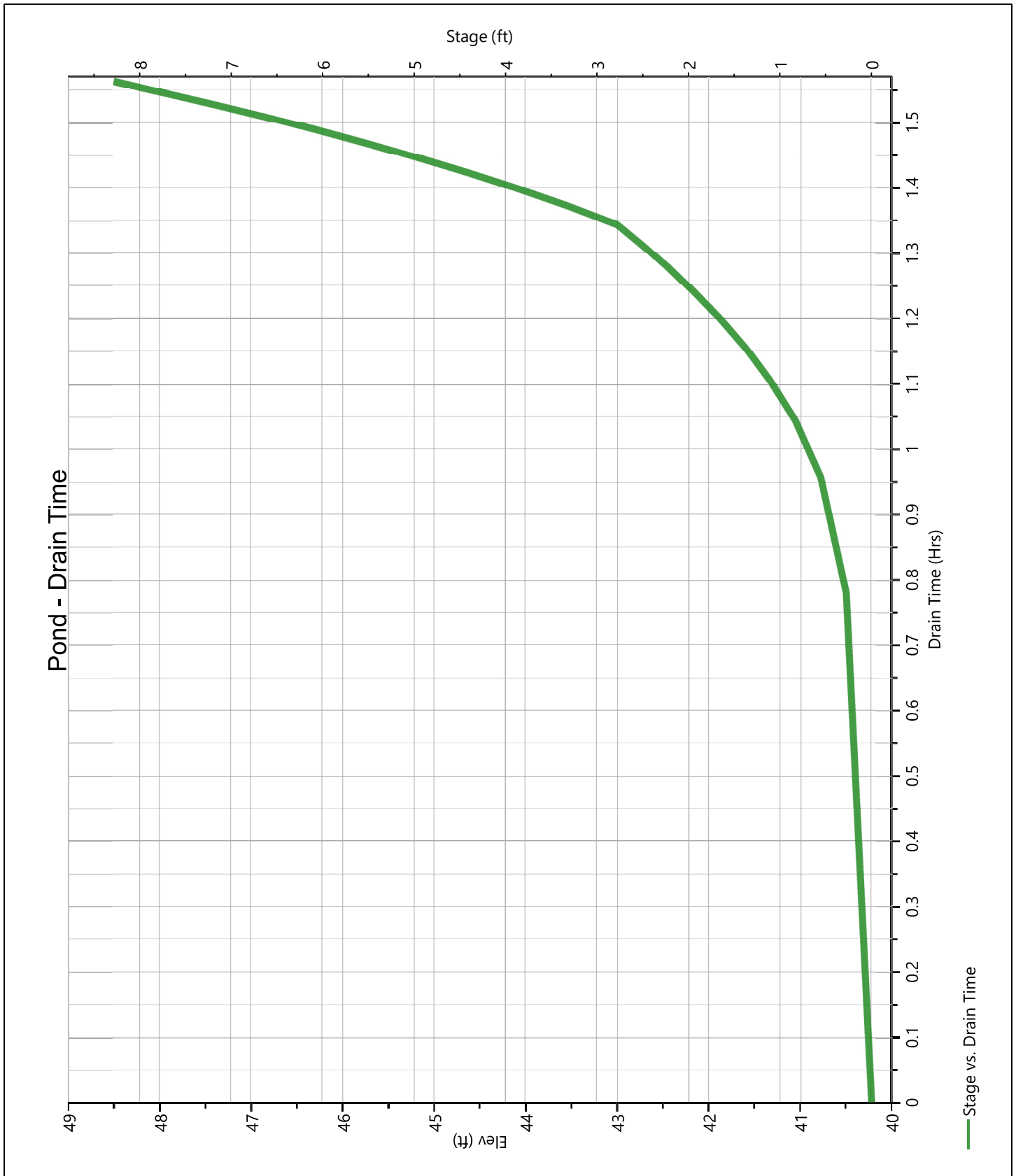
Pond

Stage-Storage-Discharge Summary

Stage (ft)	Elev. (ft)	Storage (cuft)	Culvert (cfs)	Orifices, cfs			Riser (cfs)	Weirs, cfs			Pf Riser (cfs)	Exfil (cfs)	User (cfs)	Total (cfs)
				1	2	3		1	2	3				
0.00	40.22	0.000		0.000										0.000
2.78	43.00	3,455		3.118										3.118
8.28	48.50	6,909		5.653										5.653

Pond

Pond Drawdown



Design Storm Report

Custom Storm filename:

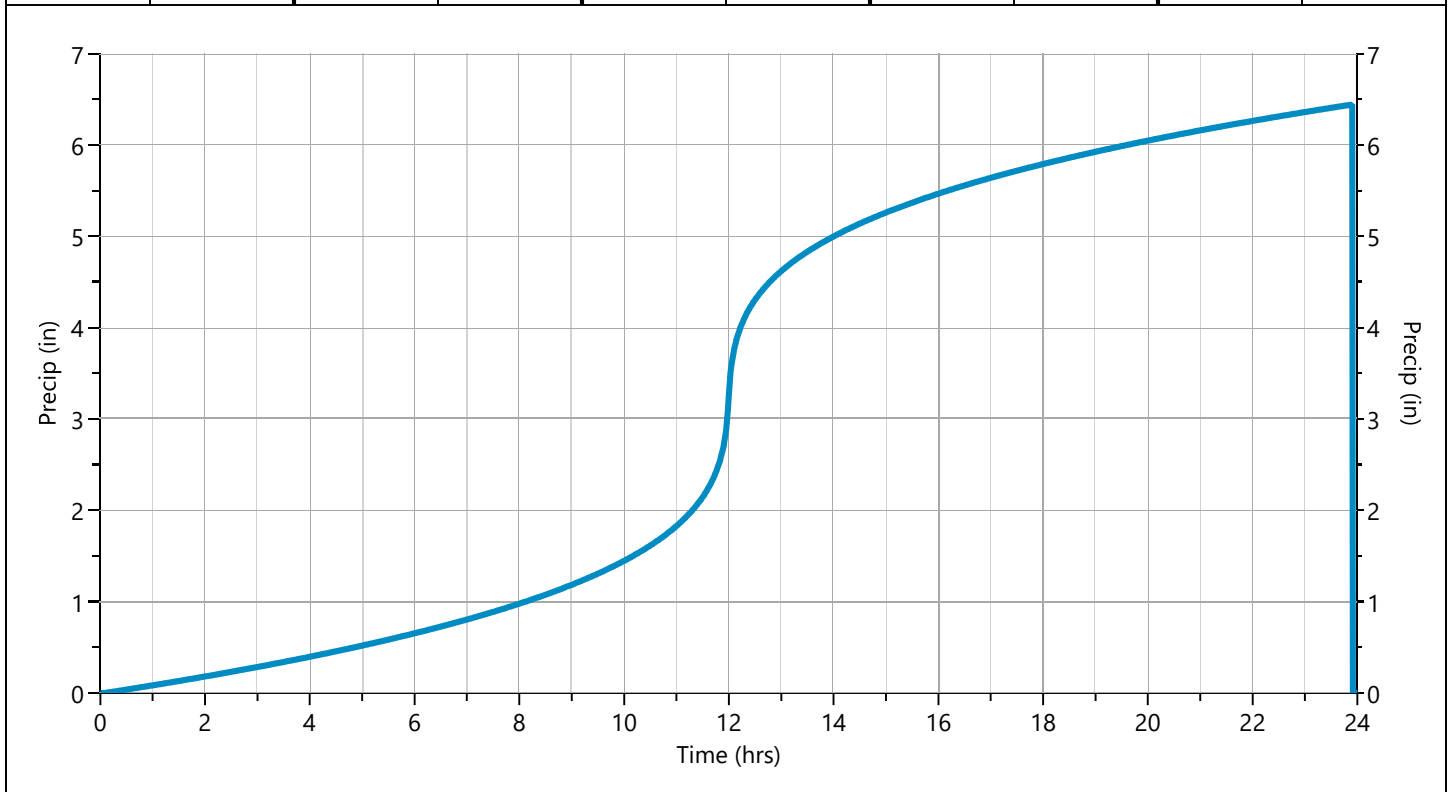
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07-01-2022

Storm Distribution: IDF Based - Synthetic, 24-hr

Storm Duration	Total Rainfall Volume (in)								
	1-yr	✓ 2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
24 hrs	5.92	6.46	0	7.89	9.93	12.94	16.26	20.28	

Incremental Rainfall Distribution, 2-yr									
Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)
11.50	0.013740	11.68	0.019384	11.87	0.037251	12.05	0.079434	12.23	0.025139
11.52	0.014093	11.70	0.020197	11.88	0.041066	12.07	0.065498	12.25	0.023809
11.53	0.014468	11.72	0.021094	11.90	0.045849	12.08	0.055817	12.27	0.022630
11.55	0.014867	11.73	0.022090	11.92	0.052016	12.10	0.048725	12.28	0.021579
11.57	0.015294	11.75	0.023202	11.93	0.060255	12.12	0.043315	12.30	0.020634
11.58	0.015752	11.77	0.024453	11.95	0.071780	12.13	0.039056	12.32	0.019781
11.60	0.016244	11.78	0.025871	11.97	0.088942	12.15	0.035619	12.33	0.019006
11.62	0.016774	11.80	0.027491	11.98	0.116875	12.17	0.032786	12.35	0.018299
11.63	0.017346	11.82	0.029363	12.00	0.169025	12.18	0.030412	12.37	0.017651
11.65	0.017968	11.83	0.031549	12.02	0.138387	12.20	0.028392	12.38	0.017054
11.67	0.018644	11.85	0.034137	12.03	0.101037	12.22	0.026653	12.40	0.016504



Hydrograph 5-yr Summary

Project Name: Prestige Fitness Club

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07-01-2022

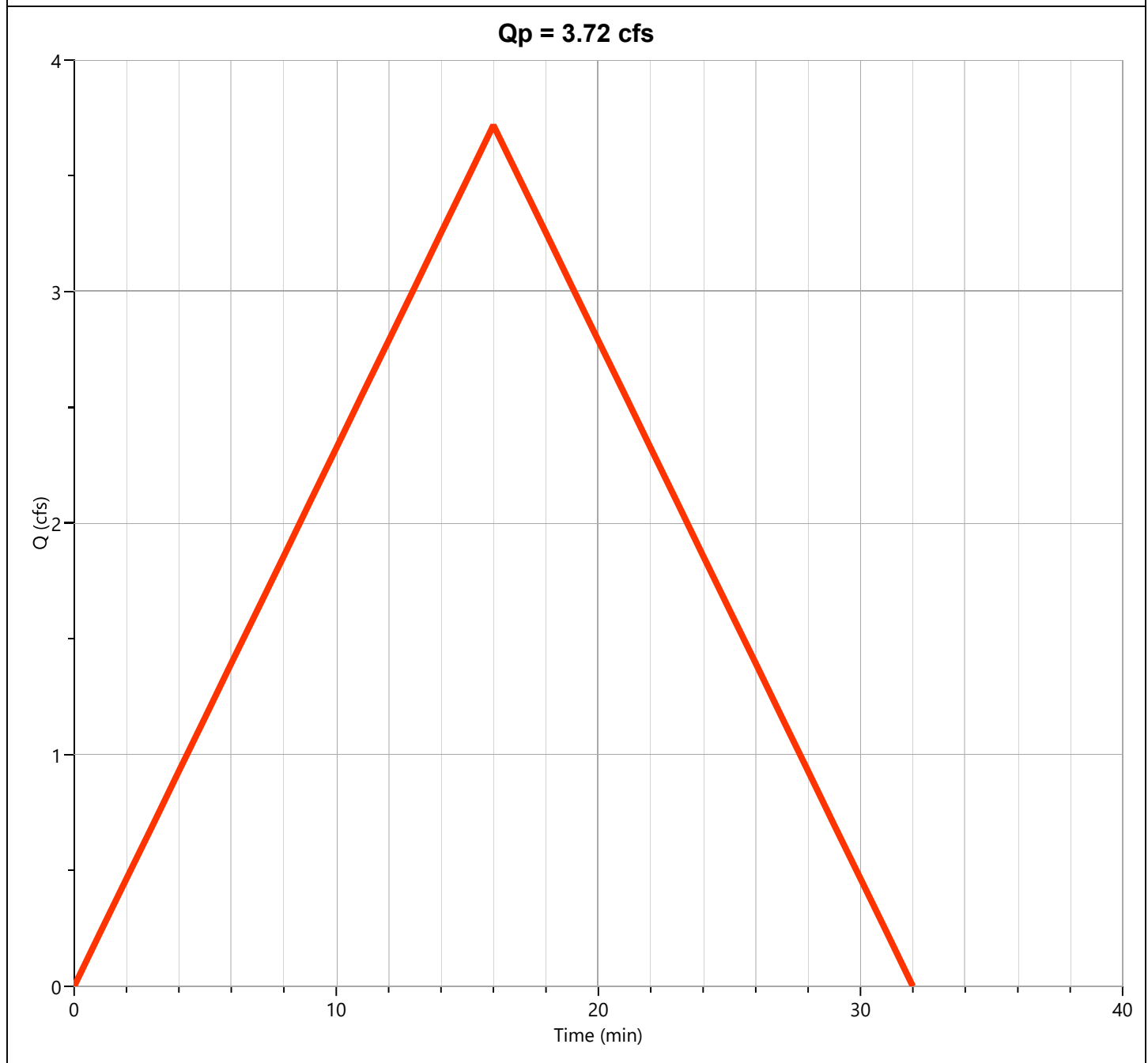
Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Flow (cfs)	Time to Peak (hrs)	Hydrograph Volume (cuft)	Inflow Hyd(s)	Maximum Elevation (ft)	Maximum Storage (cuft)
1	Rational	Pre Existing	3.718	0.27	3,569	---		
2	Rational	Post Construction	9.898	0.17	5,939	---		
3	Pond Route	Pond	3.438	0.28	5,937	2	43.54	3,782

Hydrograph Report

Pre Existing

Hyd. No. 1

Hydrograph Type	= Rational	Peak Flow	= 3.718 cfs
Storm Frequency	= 5-yr	Time to Peak	= 0.27 hrs
Time Interval	= 1 min	Runoff Volume	= 3,569 cuft
Drainage Area	= 1.91 ac	Runoff Coeff.	= 0.35
Tc Method	= TR55 (See Worksheet)	Time of Conc. (Tc)	= 16.0 min
IDF Curve	= mississippi.idf	Intensity	= 5.56 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1



Hydrograph Discharge Table

Existing

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
1	0.232								
2	0.465								
3	0.697								
4	0.929								
5	1.162								
6	1.394								
7	1.626								
8	1.859								
9	2.091								
10	2.324								
11	2.556								
12	2.788								
13	3.021								
14	3.253								
15	3.485								
16	3.718								
17	3.485								
18	3.253								
19	3.021								
20	2.788								
21	2.556								
22	2.324								
23	2.091								
24	1.859								
25	1.626								
26	1.394								
27	1.162								
28	0.929								
29	0.697								
30	0.465								
31	0.232								
32	0.000								
...end	...end								

Hydrograph Report

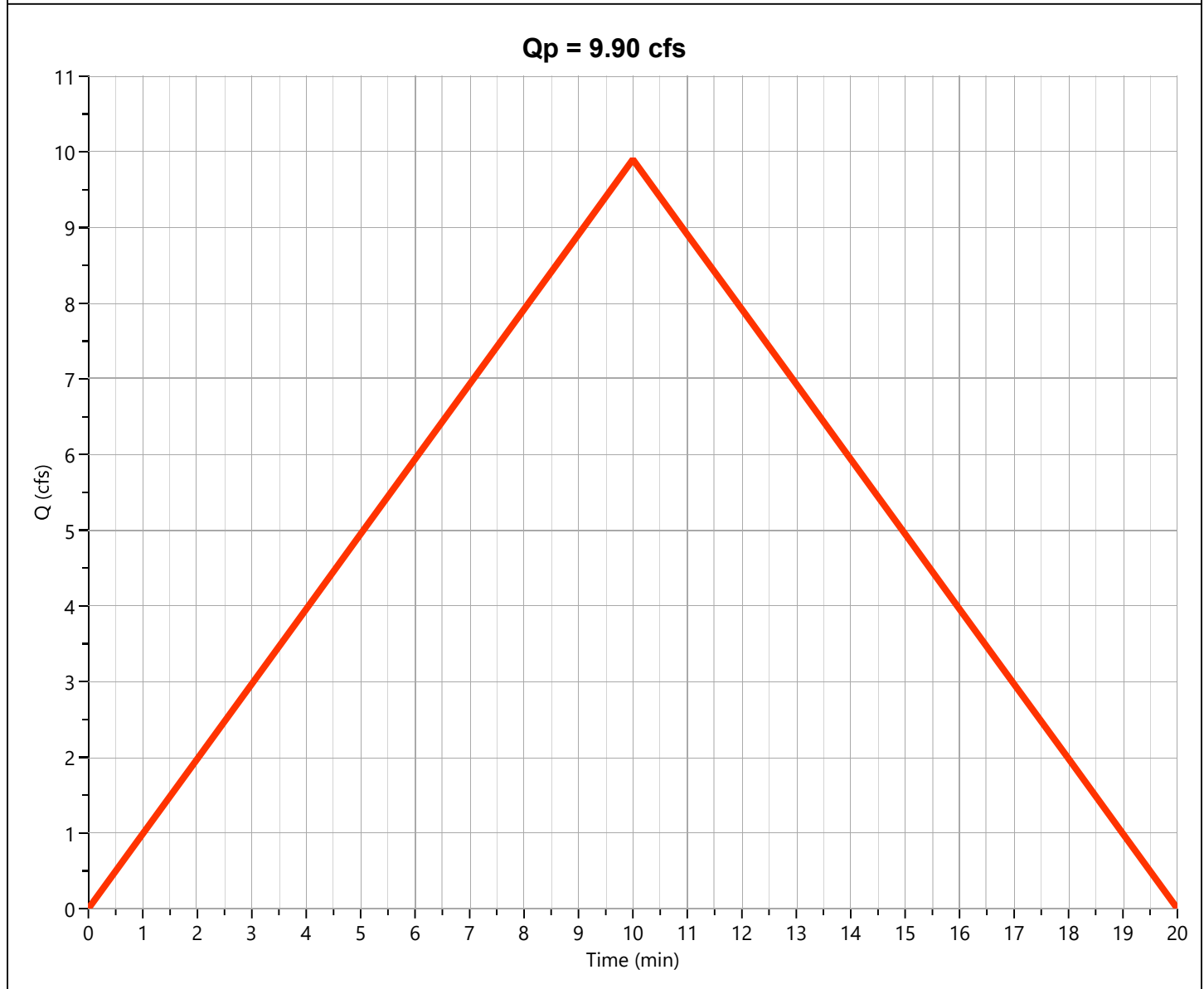
Post Construction

Hyd. No. 2

Hydrograph Type	= Rational	Peak Flow	= 9.898 cfs
Storm Frequency	= 5-yr	Time to Peak	= 0.17 hrs
Time Interval	= 1 min	Runoff Volume	= 5,939 cuft
Drainage Area	= 1.91 ac	Runoff Coeff.	= 0.75*
Tc Method	= User	Time of Conc. (Tc)	= 10.0 min
IDF Curve	= mississippi.idf	Intensity	= 6.91 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1

* Composite C Worksheet

AREA (ac)	C	DESCRIPTION
0.4	0.35	green
1.51	0.85	pave
1.91	0.75	



Hydrograph Report

Pond

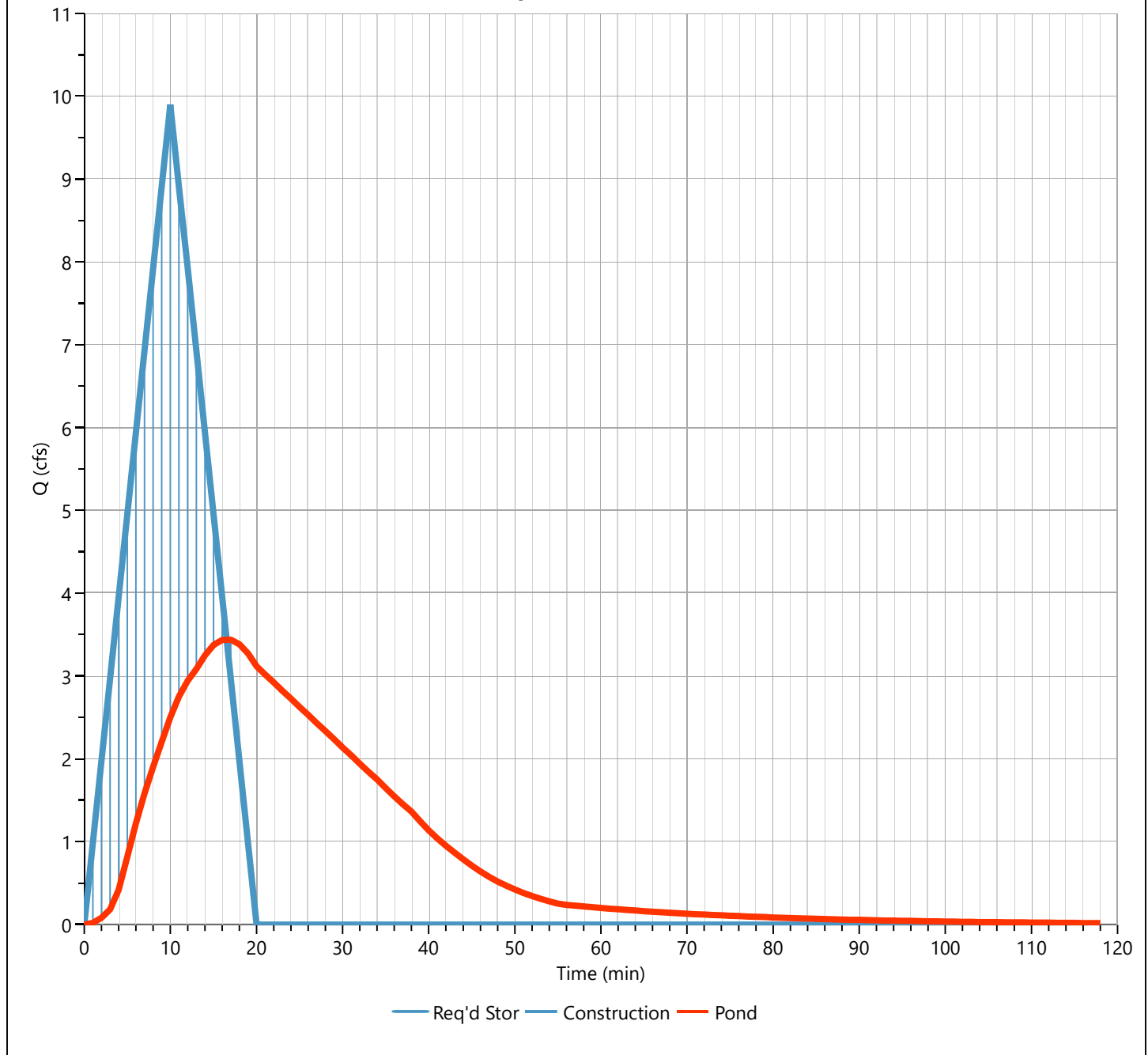
Hyd. No. 3

Hydrograph Type	= Pond Route	Peak Flow	= 3.438 cfs
Storm Frequency	= 5-yr	Time to Peak	= 0.28 hrs
Time Interval	= 1 min	Hydrograph Volume	= 5,937 cuft
Inflow Hydrograph	= 2 - Construction	Max. Elevation	= 43.54 ft
Pond Name	= Pond	Max. Storage	= 3,782 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 16 min

Qp = 3.44 cfs



Hydrograph Discharge Table

Pond

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
2	0.082	38	1.364	74	0.110				
3	0.182	39	1.247	75	0.106				
4	0.419	40	1.139	76	0.101				
5	0.817	41	1.041	77	0.097				
6	1.220	42	0.951	78	0.093				
7	1.580	43	0.870	79	0.089				
8	1.902	44	0.787	80	0.085				
9	2.206	45	0.710	81	0.082				
10	2.500	46	0.639	82	0.078				
11	2.752	47	0.576	83	0.075				
12	2.943	48	0.519	84	0.072				
13	3.085	49	0.468	85	0.069				
14	3.250	50	0.422	86	0.066				
15	3.375	51	0.380	87	0.063				
16	3.437	52	0.343	88	0.061				
17	3.438	53	0.309	89	0.058				
18	3.383	54	0.278	90	0.056				
19	3.275	55	0.251	91	0.053				
20	3.117	56	0.237	92	0.051				
21	3.018	57	0.228	93	0.049				
22	2.922	58	0.218	94	0.047				
23	2.823	59	0.209	95	0.045				
24	2.727	60	0.200	96	0.043				
25	2.627	61	0.192	97	0.041				
26	2.532	62	0.184	98	0.040				
27	2.432	63	0.176	99	0.038				
28	2.335	64	0.169	100	0.036				
29	2.237	65	0.162	101	0.035				
30	2.138	66	0.155	102	0.033				
31	2.044	67	0.148	...end	...end				
32	1.943	68	0.142						
33	1.844	69	0.136						
34	1.751	70	0.131						
35	1.649	71	0.125						
36	1.548	72	0.120						
37	1.453	73	0.115						

Design Storm Report

Custom Storm filename:

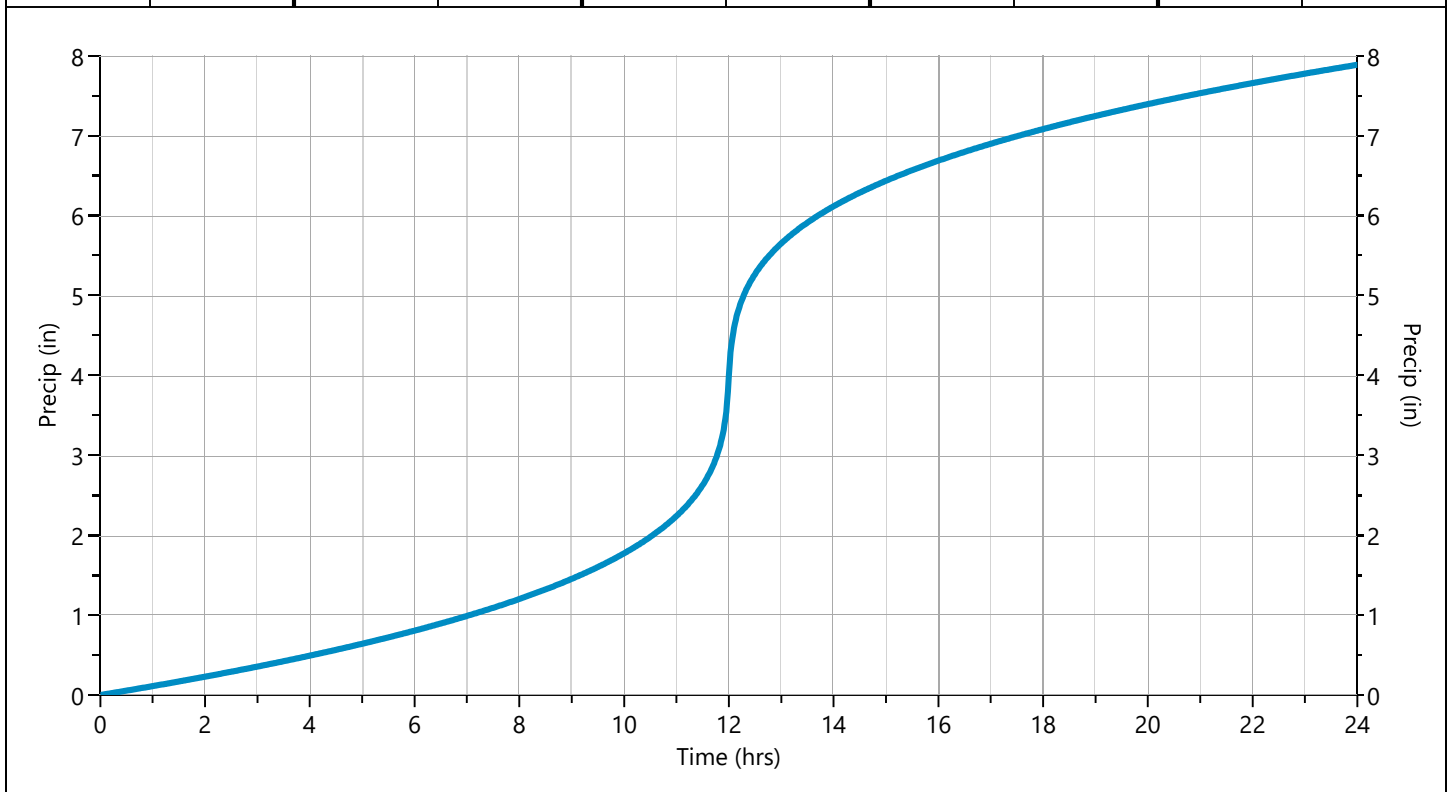
Hydrology Studio v 3.0.0.24

07-01-2022

Storm Distribution: IDF Based - Synthetic, 24-hr

Storm Duration	Total Rainfall Volume (in)								
	1-yr	2-yr	3-yr	✓ 5-yr	10-yr	25-yr	50-yr	100-yr	
24 hrs	5.92	6.46	0	7.89	9.93	12.94	16.26	20.28	

Incremental Rainfall Distribution, 5-yr									
Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)
11.50	0.016835	11.68	0.023781	11.87	0.045739	12.05	0.097072	12.23	0.030861
11.52	0.017269	11.70	0.024781	11.88	0.050415	12.07	0.080206	12.25	0.029225
11.53	0.017730	11.72	0.025885	11.90	0.056269	12.08	0.068435	12.27	0.027775
11.55	0.018222	11.73	0.027110	11.92	0.063801	12.10	0.059783	12.28	0.026481
11.57	0.018747	11.75	0.028479	11.93	0.073836	12.12	0.053169	12.30	0.025319
11.58	0.019310	11.77	0.030018	11.95	0.087821	12.13	0.047953	12.32	0.024268
11.60	0.019916	11.78	0.031761	11.97	0.108525	12.15	0.043738	12.33	0.023315
11.62	0.020568	11.80	0.033754	11.98	0.141926	12.17	0.040261	12.35	0.022444
11.63	0.021272	11.82	0.036055	12.00	0.203350	12.18	0.037344	12.37	0.021647
11.65	0.022037	11.83	0.038741	12.02	0.167406	12.20	0.034862	12.38	0.020913
11.67	0.022870	11.85	0.041920	12.03	0.123032	12.22	0.032723	12.40	0.020235



Hydrograph 10-yr Summary

Project Name: Prestige Fitness Club

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07-01-2022

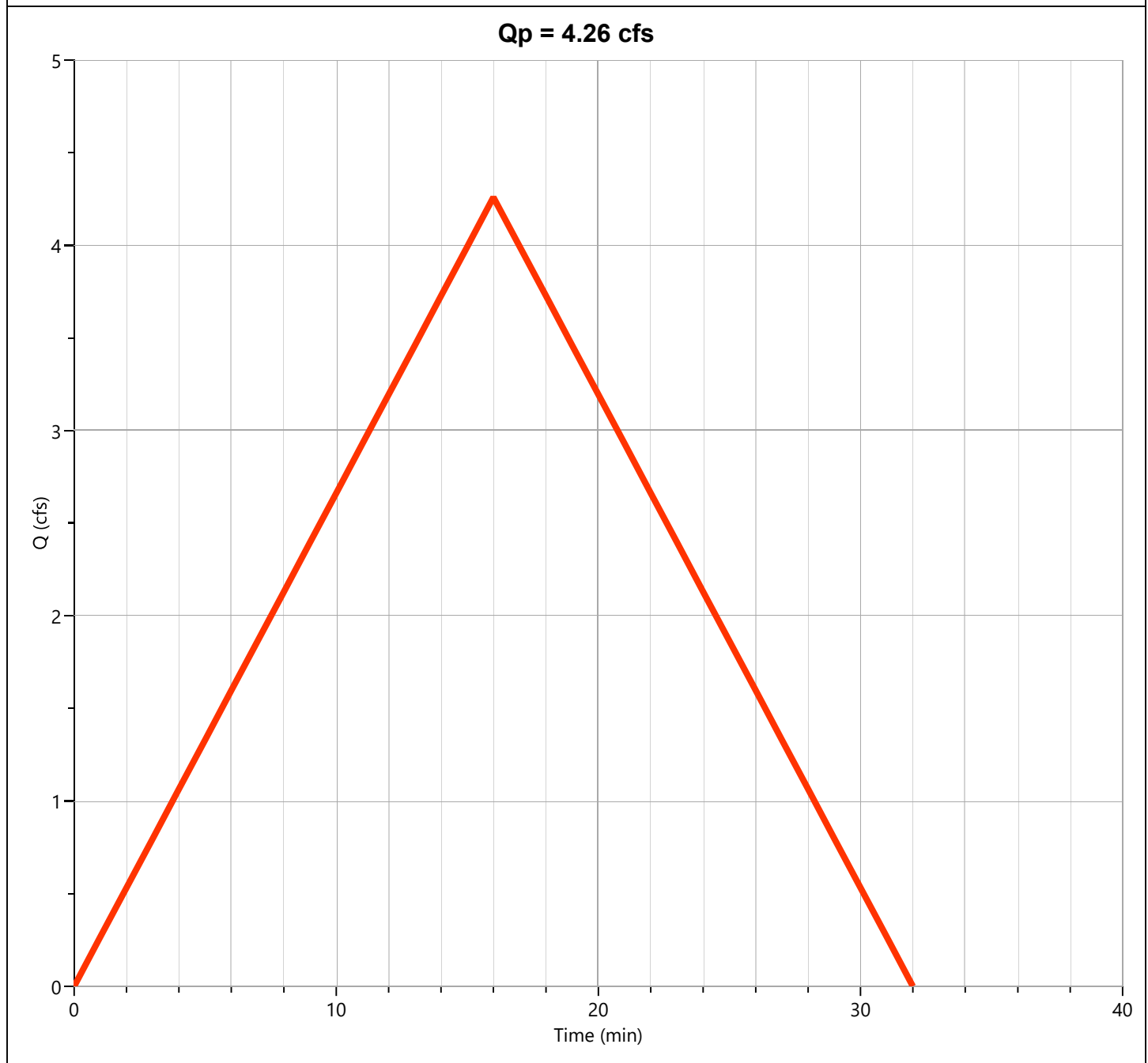
Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Flow (cfs)	Time to Peak (hrs)	Hydrograph Volume (cuft)	Inflow Hyd(s)	Maximum Elevation (ft)	Maximum Storage (cuft)
1	Rational	Pre Existing	4.259	0.27	4,089	---		
2	Rational	Post Construction	11.34	0.17	6,806	---		
3	Pond Route	Pond	3.943	0.28	6,805	2	44.47	4,363

Hydrograph Report

Pre Existing

Hyd. No. 1

Hydrograph Type	= Rational	Peak Flow	= 4.259 cfs
Storm Frequency	= 10-yr	Time to Peak	= 0.27 hrs
Time Interval	= 1 min	Runoff Volume	= 4,089 cuft
Drainage Area	= 1.91 ac	Runoff Coeff.	= 0.35
Tc Method	= TR55 (See Worksheet)	Time of Conc. (Tc)	= 16.0 min
IDF Curve	= mississippi.idf	Intensity	= 6.37 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1



Hydrograph Discharge Table

Existing

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
1	0.266								
2	0.532								
3	0.799								
4	1.065								
5	1.331								
6	1.597								
7	1.863								
8	2.130								
9	2.396								
10	2.662								
11	2.928								
12	3.194								
13	3.461								
14	3.727								
15	3.993								
16	4.259								
17	3.993								
18	3.727								
19	3.461								
20	3.194								
21	2.928								
22	2.662								
23	2.396								
24	2.130								
25	1.863								
26	1.597								
27	1.331								
28	1.065								
29	0.799								
30	0.532								
31	0.266								
32	0.000								
...end	...end								

Hydrograph Report

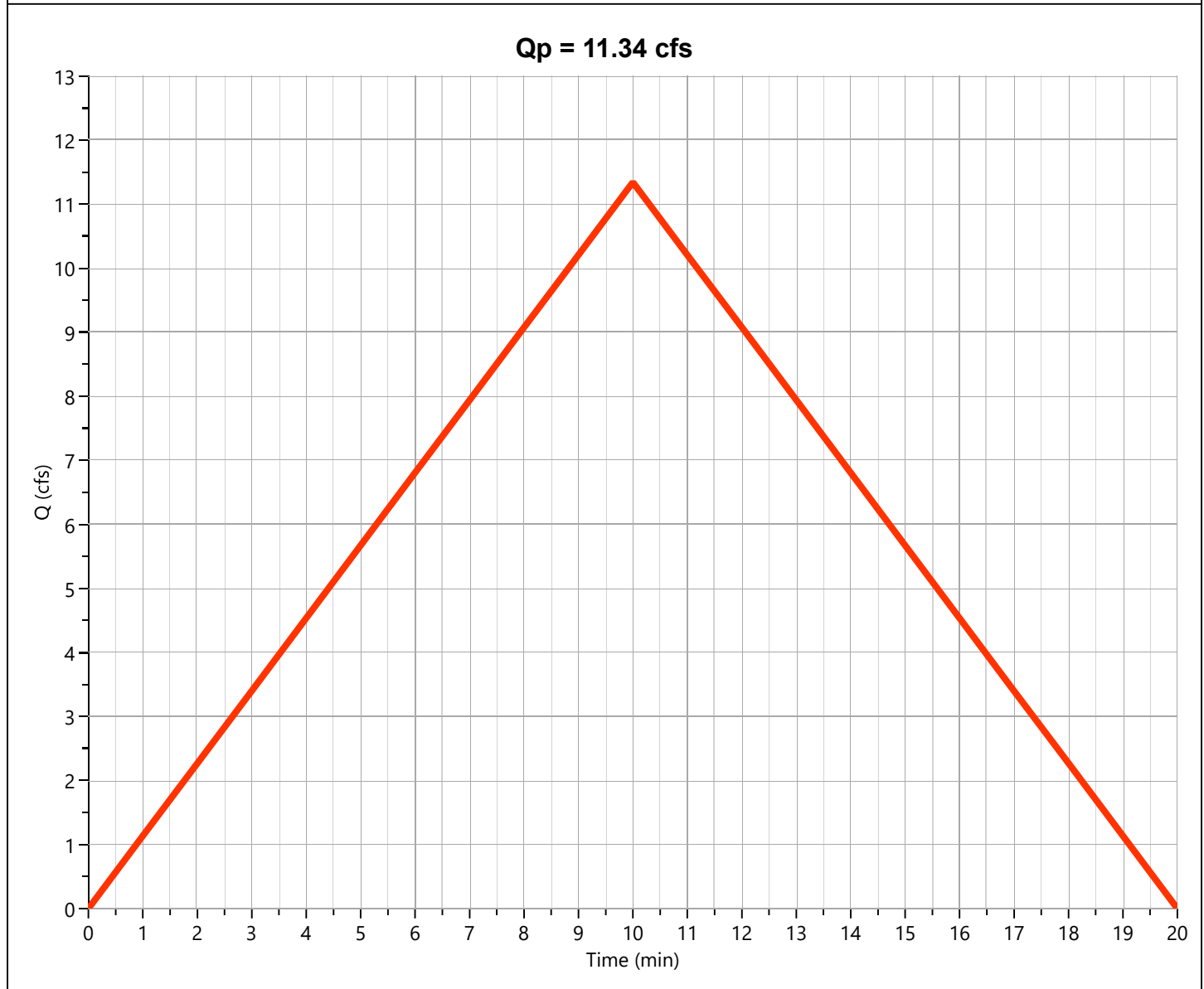
Post Construction

Hyd. No. 2

Hydrograph Type	= Rational	Peak Flow	= 11.34 cfs
Storm Frequency	= 10-yr	Time to Peak	= 0.17 hrs
Time Interval	= 1 min	Runoff Volume	= 6,806 cuft
Drainage Area	= 1.91 ac	Runoff Coeff.	= 0.75*
Tc Method	= User	Time of Conc. (Tc)	= 10.0 min
IDF Curve	= mississippi.idf	Intensity	= 7.92 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1

* Composite C Worksheet

AREA (ac)	C	DESCRIPTION
0.4	0.35	green
1.51	0.85	pave
1.91	0.75	



Hydrograph Report

Pond

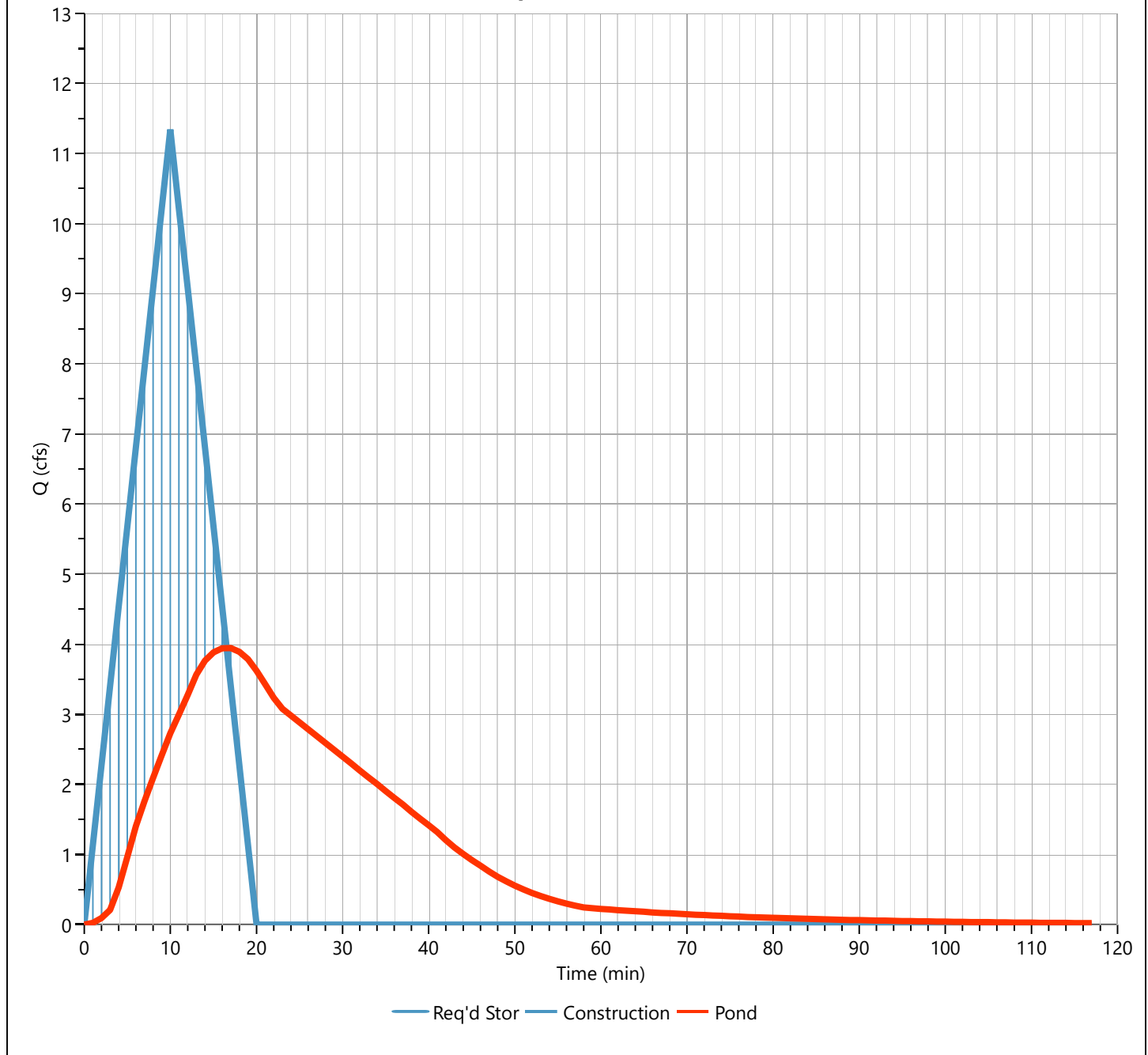
Hyd. No. 3

Hydrograph Type	= Pond Route	Peak Flow	= 3.943 cfs
Storm Frequency	= 10-yr	Time to Peak	= 0.28 hrs
Time Interval	= 1 min	Hydrograph Volume	= 6,805 cuft
Inflow Hydrograph	= 2 - Construction	Max. Elevation	= 44.47 ft
Pond Name	= Pond	Max. Storage	= 4,363 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 16 min

Qp = 3.94 cfs



Hydrograph Discharge Table

Pond

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
2	0.094	38	1.609	74	0.123				
3	0.208	39	1.510	75	0.118				
4	0.529	40	1.418	76	0.113				
5	0.964	41	1.318	77	0.108				
6	1.402	42	1.205	78	0.104				
7	1.761	43	1.101	79	0.099				
8	2.093	44	1.006	80	0.095				
9	2.413	45	0.919	81	0.091				
10	2.727	46	0.839	82	0.087				
11	2.995	47	0.757	83	0.084				
12	3.277	48	0.682	84	0.080				
13	3.565	49	0.614	85	0.077				
14	3.763	50	0.554	86	0.074				
15	3.883	51	0.499	87	0.071				
16	3.942	52	0.450	88	0.068				
17	3.943	53	0.405	89	0.065				
18	3.890	54	0.365	90	0.062				
19	3.784	55	0.329	91	0.060				
20	3.618	56	0.297	92	0.057				
21	3.427	57	0.267	93	0.055				
22	3.232	58	0.244	94	0.052				
23	3.079	59	0.234	95	0.050				
24	2.981	60	0.224	96	0.048				
25	2.883	61	0.214	97	0.046				
26	2.786	62	0.206	98	0.044				
27	2.688	63	0.197	99	0.042				
28	2.590	64	0.189	100	0.041				
29	2.493	65	0.181	101	0.039				
30	2.394	66	0.173	...end	...end				
31	2.299	67	0.166						
32	2.199	68	0.159						
33	2.101	69	0.152						
34	2.006	70	0.146						
35	1.904	71	0.140						
36	1.808	72	0.134						
37	1.714	73	0.128						

Design Storm Report

Custom Storm filename:

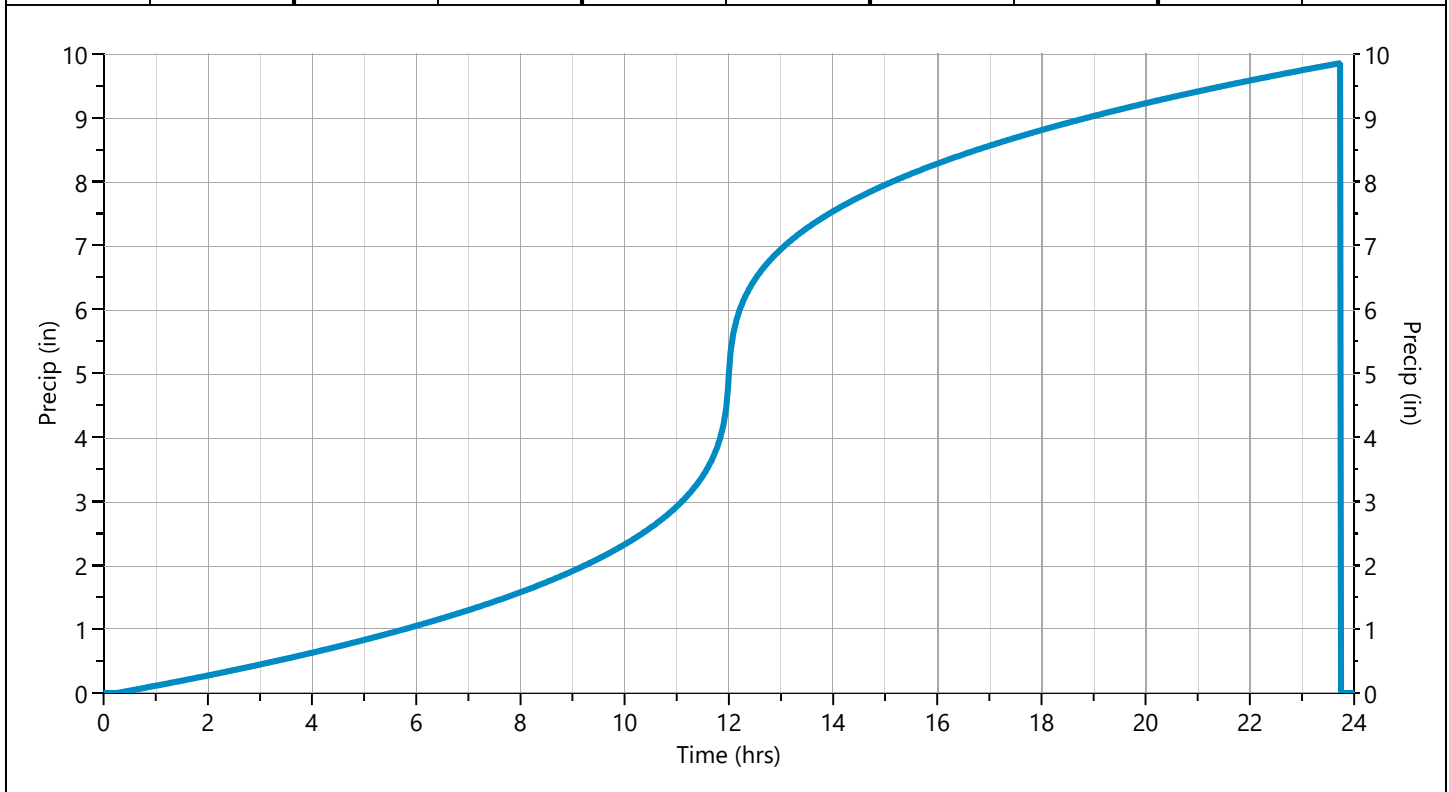
Hydrology Studio v 3.0.0.24

07-01-2022

Storm Distribution: IDF Based - Synthetic, 24-hr

Storm Duration	Total Rainfall Volume (in)								
	1-yr	2-yr	3-yr	5-yr	✓ 10-yr	25-yr	50-yr	100-yr	
24 hrs	5.92	6.46	0	7.89	9.93	12.94	16.26	20.28	

Incremental Rainfall Distribution, 10-yr									
Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)
11.50	0.020525	11.68	0.028395	11.87	0.052729	12.05	0.110043	12.23	0.036295
11.52	0.021021	11.70	0.029516	11.88	0.057883	12.07	0.090971	12.25	0.034477
11.53	0.021549	11.72	0.030752	11.90	0.064343	12.08	0.077824	12.27	0.032862
11.55	0.022110	11.73	0.032121	11.92	0.072678	12.10	0.068228	12.28	0.031419
11.57	0.022708	11.75	0.033647	11.93	0.083842	12.12	0.060920	12.30	0.030119
11.58	0.023348	11.77	0.035358	11.95	0.099545	12.13	0.055169	12.32	0.028943
11.60	0.024035	11.78	0.037294	11.97	0.123175	12.15	0.050523	12.33	0.027872
11.62	0.024774	11.80	0.039502	11.98	0.162405	12.17	0.046690	12.35	0.026893
11.63	0.025571	11.82	0.042047	12.00	0.238587	12.18	0.043471	12.37	0.025993
11.65	0.026433	11.83	0.045013	12.02	0.193346	12.20	0.040727	12.38	0.025164
11.67	0.027371	11.85	0.048519	12.03	0.140037	12.22	0.038360	12.40	0.024398



Hydrograph 25-yr Summary

Project Name: Prestige Fitness Club

Hydrology Studio v 3.0.0.24

07-01-2022

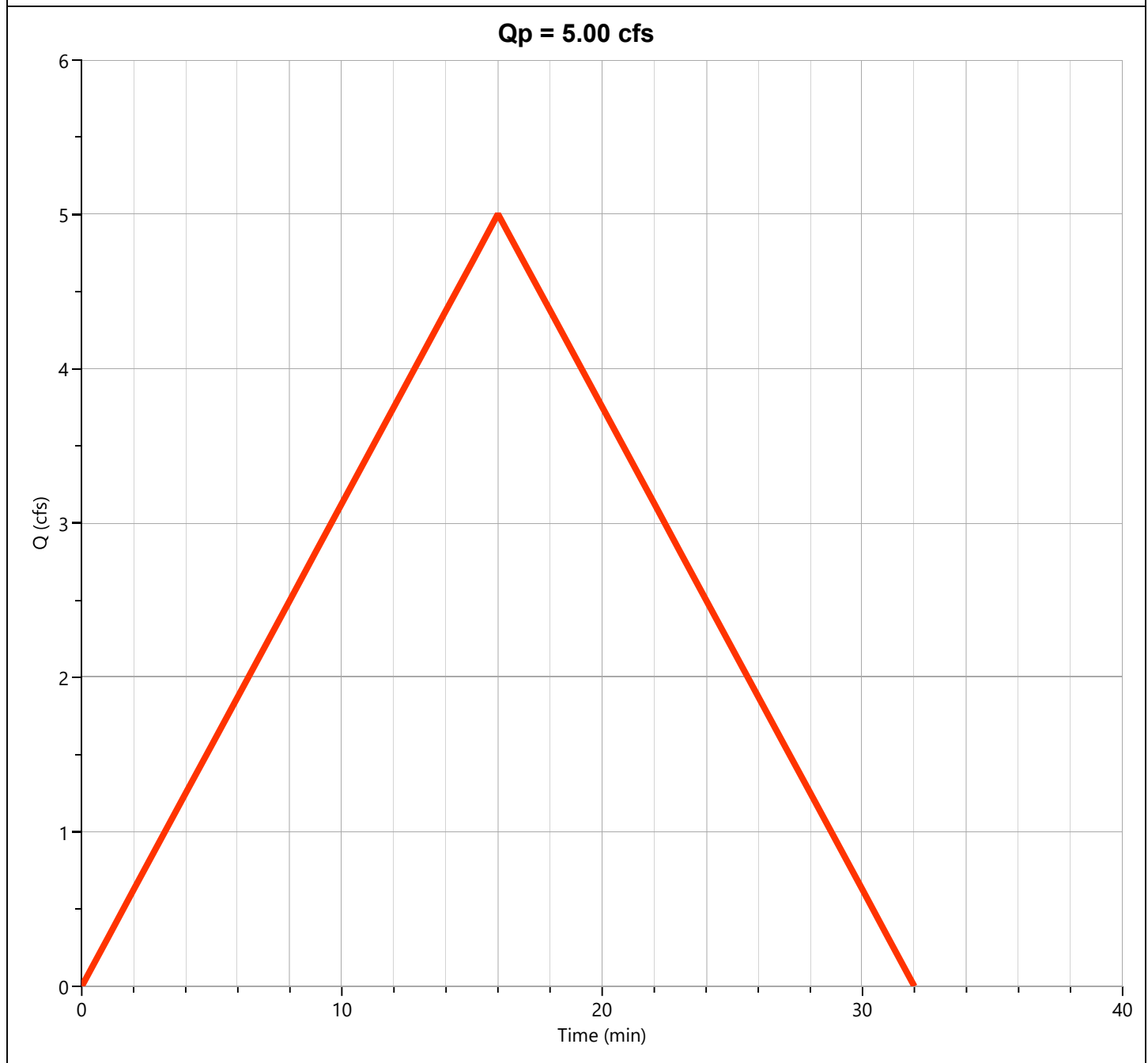
Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Flow (cfs)	Time to Peak (hrs)	Hydrograph Volume (cuft)	Inflow Hyd(s)	Maximum Elevation (ft)	Maximum Storage (cuft)
1	Rational	Pre Existing	5.003	0.27	4,803	---		
2	Rational	Post Construction	13.29	0.17	7,976	---		
3	Pond Route	Pond	4.549	0.28	7,974	2	45.74	5,161

Hydrograph Report

Pre Existing

Hyd. No. 1

Hydrograph Type	= Rational	Peak Flow	= 5.003 cfs
Storm Frequency	= 25-yr	Time to Peak	= 0.27 hrs
Time Interval	= 1 min	Runoff Volume	= 4,803 cuft
Drainage Area	= 1.91 ac	Runoff Coeff.	= 0.35
Tc Method	= TR55 (See Worksheet)	Time of Conc. (Tc)	= 16.0 min
IDF Curve	= mississippi.idf	Intensity	= 7.48 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1



Hydrograph Discharge Table

Existing

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
1	0.313								
2	0.625								
3	0.938								
4	1.251								
5	1.563								
6	1.876								
7	2.189								
8	2.501								
9	2.814								
10	3.127								
11	3.439								
12	3.752								
13	4.065								
14	4.378								
15	4.690								
16	5.003								
17	4.690								
18	4.378								
19	4.065								
20	3.752								
21	3.439								
22	3.127								
23	2.814								
24	2.501								
25	2.189								
26	1.876								
27	1.563								
28	1.251								
29	0.938								
30	0.625								
31	0.313								
32	0.000								
...end	...end								

Hydrograph Report

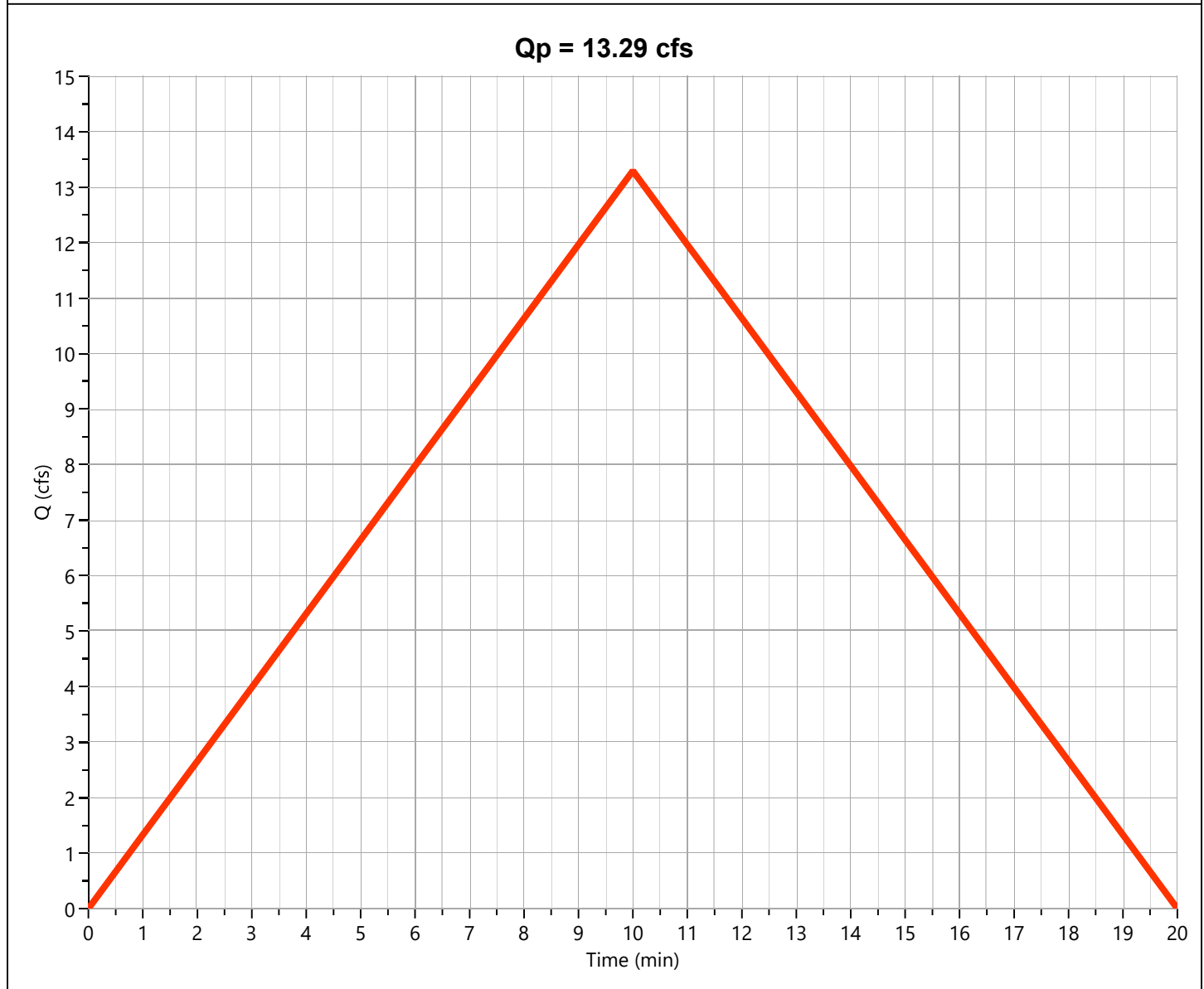
Post Construction

Hyd. No. 2

Hydrograph Type	= Rational	Peak Flow	= 13.29 cfs
Storm Frequency	= 25-yr	Time to Peak	= 0.17 hrs
Time Interval	= 1 min	Runoff Volume	= 7,976 cuft
Drainage Area	= 1.91 ac	Runoff Coeff.	= 0.75*
Tc Method	= User	Time of Conc. (Tc)	= 10.0 min
IDF Curve	= mississippi.idf	Intensity	= 9.28 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1

* Composite C Worksheet

AREA (ac)	C	DESCRIPTION
0.4	0.35	green
1.51	0.85	pave
1.91	0.75	



Hydrograph Report

Project Name: Prestige Fitness Club

Hydrology Studio v 3.0.0.24

07-01-2022

Pond

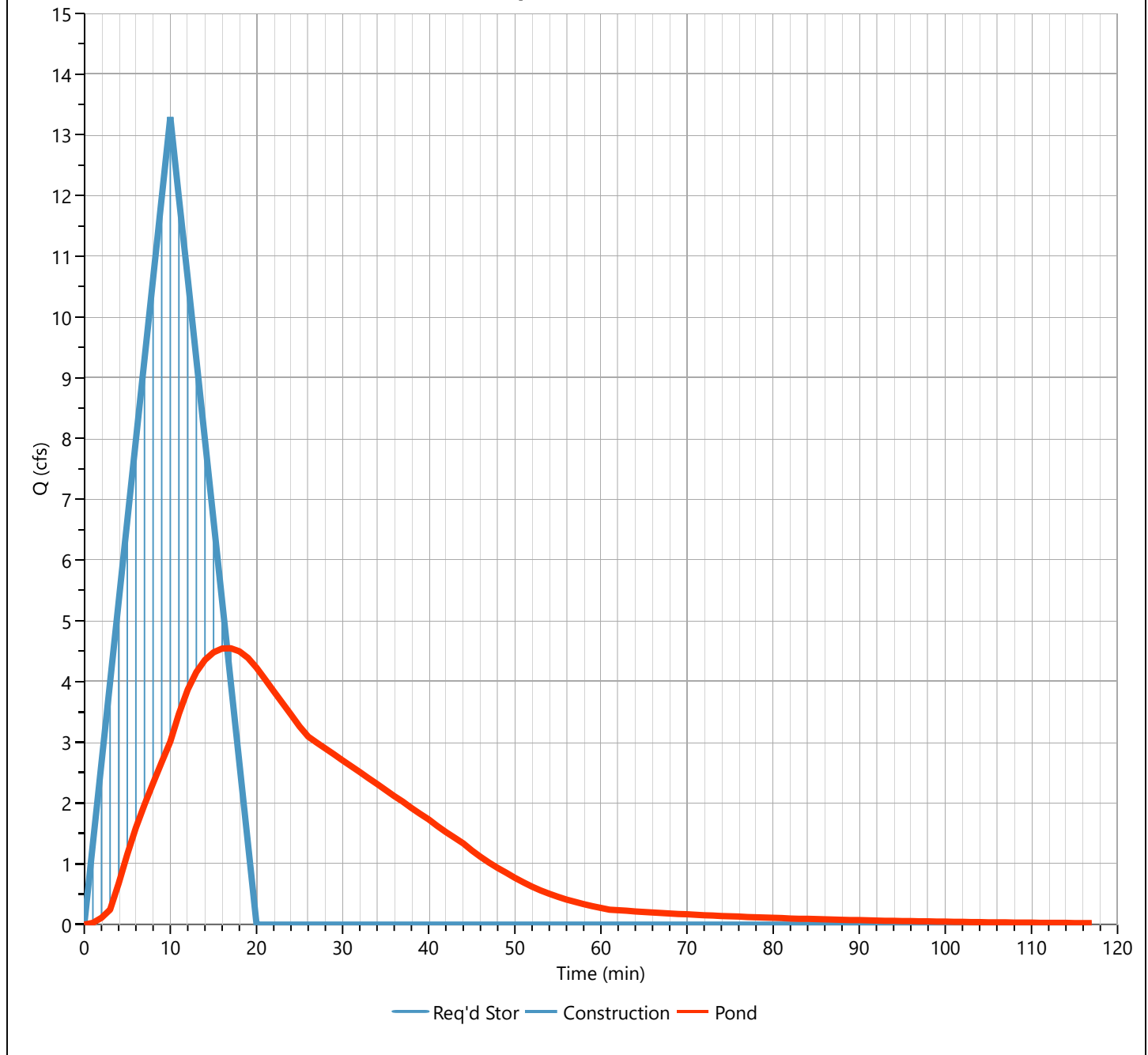
Hyd. No. 3

Hydrograph Type	= Pond Route	Peak Flow	= 4.549 cfs
Storm Frequency	= 25-yr	Time to Peak	= 0.28 hrs
Time Interval	= 1 min	Hydrograph Volume	= 7,974 cuft
Inflow Hydrograph	= 2 - Construction	Max. Elevation	= 45.74 ft
Pond Name	= Pond	Max. Storage	= 5,161 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 16 min

Qp = 4.55 cfs



Hydrograph Discharge Table

Pond

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
2	0.110	38	1.919	74	0.141				
3	0.244	39	1.821	75	0.135				
4	0.678	40	1.729	76	0.129				
5	1.156	41	1.624	77	0.124				
6	1.593	42	1.524	78	0.119				
7	1.973	43	1.431	79	0.114				
8	2.329	44	1.336	80	0.109				
9	2.672	45	1.221	81	0.104				
10	3.008	46	1.115	82	0.100				
11	3.468	47	1.019	83	0.096				
12	3.868	48	0.931	84	0.092				
13	4.155	49	0.851	85	0.088				
14	4.355	50	0.768	86	0.084				
15	4.481	51	0.692	87	0.081				
16	4.545	52	0.624	88	0.077				
17	4.549	53	0.562	89	0.074				
18	4.497	54	0.507	90	0.071				
19	4.390	55	0.457	91	0.068				
20	4.227	56	0.412	92	0.065				
21	4.035	57	0.371	93	0.063				
22	3.841	58	0.334	94	0.060				
23	3.647	59	0.301	95	0.057				
24	3.457	60	0.272	96	0.055				
25	3.260	61	0.245	97	0.053				
26	3.093	62	0.235	98	0.051				
27	2.995	63	0.225	99	0.048				
28	2.898	64	0.216	100	0.046				
29	2.800	65	0.207	101	0.044				
30	2.703	66	0.198	...end	...end				
31	2.604	67	0.190						
32	2.508	68	0.182						
33	2.409	69	0.174						
34	2.313	70	0.167						
35	2.213	71	0.160						
36	2.115	72	0.153						
37	2.021	73	0.147						

Design Storm Report

Custom Storm filename:

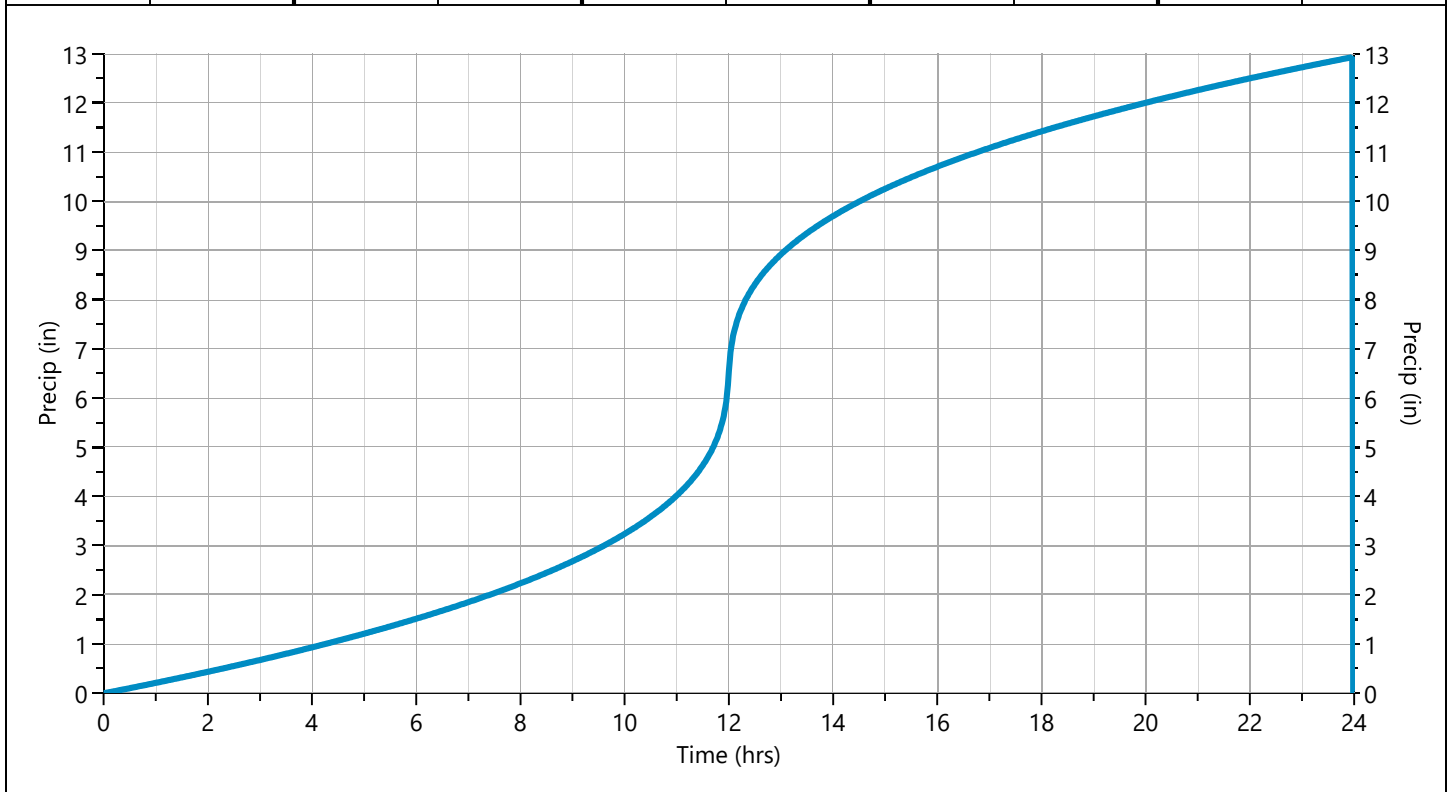
Hydrology Studio v 3.0.0.24

07-01-2022

Storm Distribution: IDF Based - Synthetic, 24-hr

Storm Duration	Total Rainfall Volume (in)								
	1-yr	2-yr	3-yr	5-yr	10-yr	✓ 25-yr	50-yr	100-yr	
24 hrs	5.92	6.46	0	7.89	9.93	12.94	16.26	20.28	

Incremental Rainfall Distribution, 25-yr									
Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)
11.50	0.025906	11.68	0.035144	11.87	0.062990	12.05	0.128181	12.23	0.044267
11.52	0.026495	11.70	0.036447	11.88	0.068828	12.07	0.106345	12.25	0.042178
11.53	0.027119	11.72	0.037879	11.90	0.076138	12.08	0.091404	12.27	0.040318
11.55	0.027782	11.73	0.039462	11.92	0.085573	12.10	0.080535	12.28	0.038650
11.57	0.028488	11.75	0.041221	11.93	0.098234	12.12	0.072266	12.30	0.037146
11.58	0.029243	11.77	0.043191	11.95	0.116135	12.13	0.065755	12.32	0.035781
11.60	0.030050	11.78	0.045413	11.97	0.143358	12.15	0.060488	12.33	0.034536
11.62	0.030917	11.80	0.047941	11.98	0.189532	12.17	0.056135	12.35	0.033395
11.63	0.031850	11.82	0.050847	12.00	0.283393	12.18	0.052471	12.37	0.032345
11.65	0.032859	11.83	0.054227	12.02	0.226946	12.20	0.049342	12.38	0.031375
11.67	0.033953	11.85	0.058213	12.03	0.163042	12.22	0.046635	12.40	0.030475



Hydrograph 50-yr Summary

Project Name: Prestige Fitness Club

Hydrology Studio v 3.0.0.24

07-01-2022

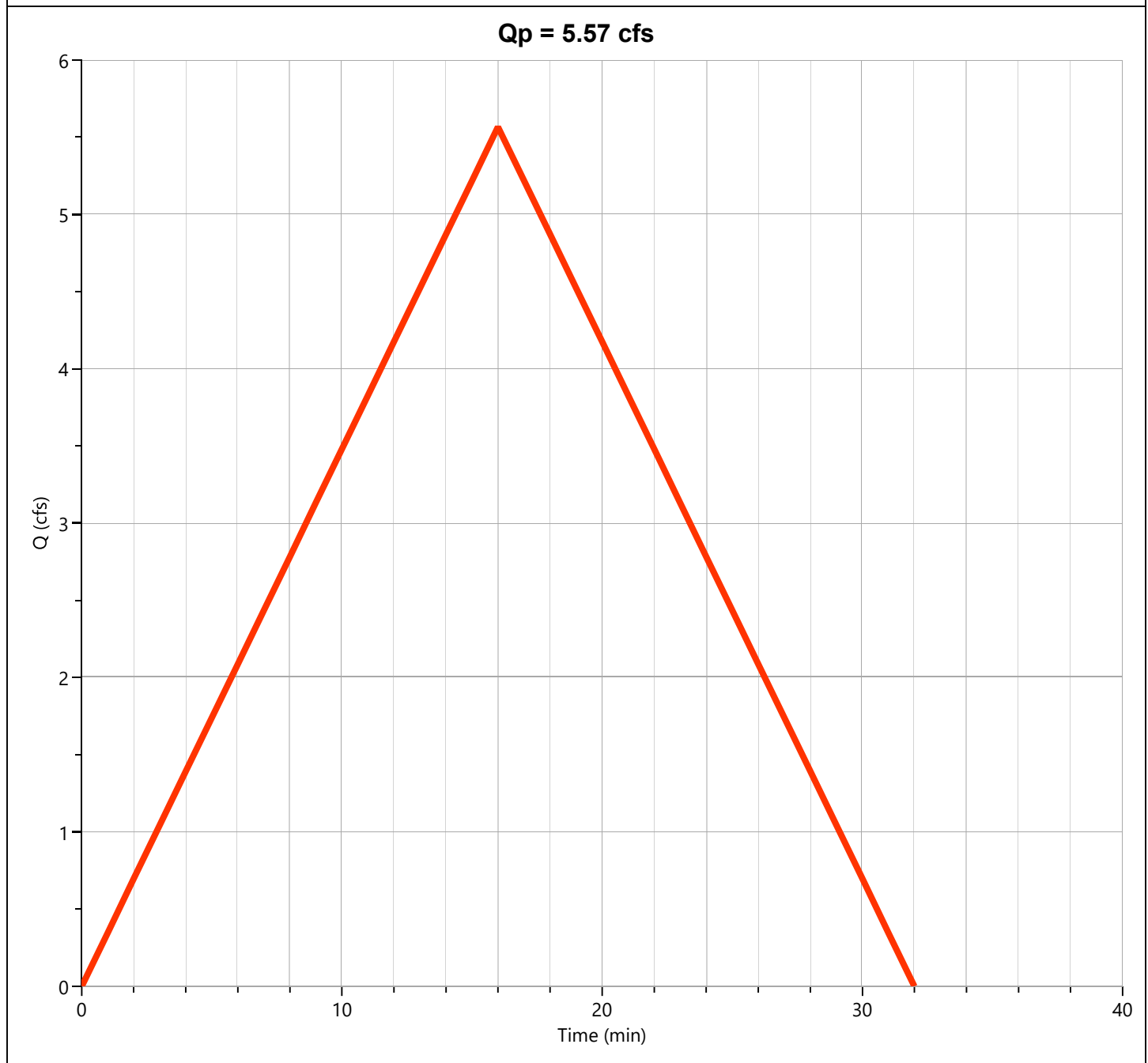
Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Flow (cfs)	Time to Peak (hrs)	Hydrograph Volume (cuft)	Inflow Hyd(s)	Maximum Elevation (ft)	Maximum Storage (cuft)
1	Rational	Pre Existing	5.567	0.27	5,344	---		
2	Rational	Post Construction	14.76	0.17	8,858	---		
3	Pond Route	Pond	4.963	0.28	8,857	2	46.72	5,774

Hydrograph Report

Pre Existing

Hyd. No. 1

Hydrograph Type	= Rational	Peak Flow	= 5.567 cfs
Storm Frequency	= 50-yr	Time to Peak	= 0.27 hrs
Time Interval	= 1 min	Runoff Volume	= 5,344 cuft
Drainage Area	= 1.91 ac	Runoff Coeff.	= 0.35
Tc Method	= TR55 (See Worksheet)	Time of Conc. (Tc)	= 16.0 min
IDF Curve	= mississippi.idf	Intensity	= 8.33 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1



Hydrograph Discharge Table

Existing

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
1	0.348								
2	0.696								
3	1.044								
4	1.392								
5	1.740								
6	2.087								
7	2.435								
8	2.783								
9	3.131								
10	3.479								
11	3.827								
12	4.175								
13	4.523								
14	4.871								
15	5.219								
16	5.567								
17	5.219								
18	4.871								
19	4.523								
20	4.175								
21	3.827								
22	3.479								
23	3.131								
24	2.783								
25	2.435								
26	2.087								
27	1.740								
28	1.392								
29	1.044								
30	0.696								
31	0.348								
32	0.000								
...end	...end								

Hydrograph Report

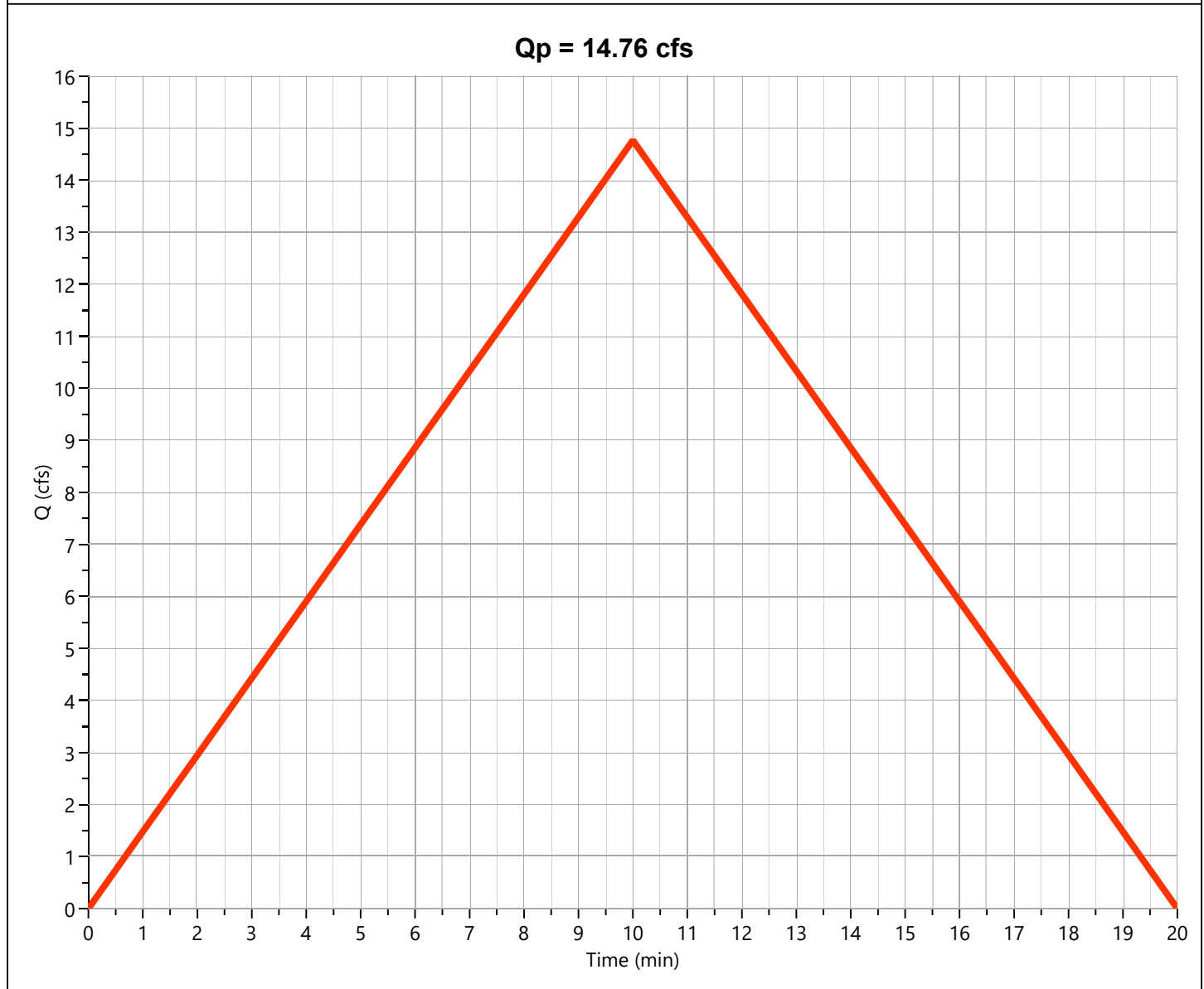
Post Construction

Hyd. No. 2

Hydrograph Type	= Rational	Peak Flow	= 14.76 cfs
Storm Frequency	= 50-yr	Time to Peak	= 0.17 hrs
Time Interval	= 1 min	Runoff Volume	= 8,858 cuft
Drainage Area	= 1.91 ac	Runoff Coeff.	= 0.75*
Tc Method	= User	Time of Conc. (Tc)	= 10.0 min
IDF Curve	= mississippi.idf	Intensity	= 10.31 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1

* Composite C Worksheet

AREA (ac)	C	DESCRIPTION
0.4	0.35	green
1.51	0.85	pave
1.91	0.75	



Hydrograph Report

Pond

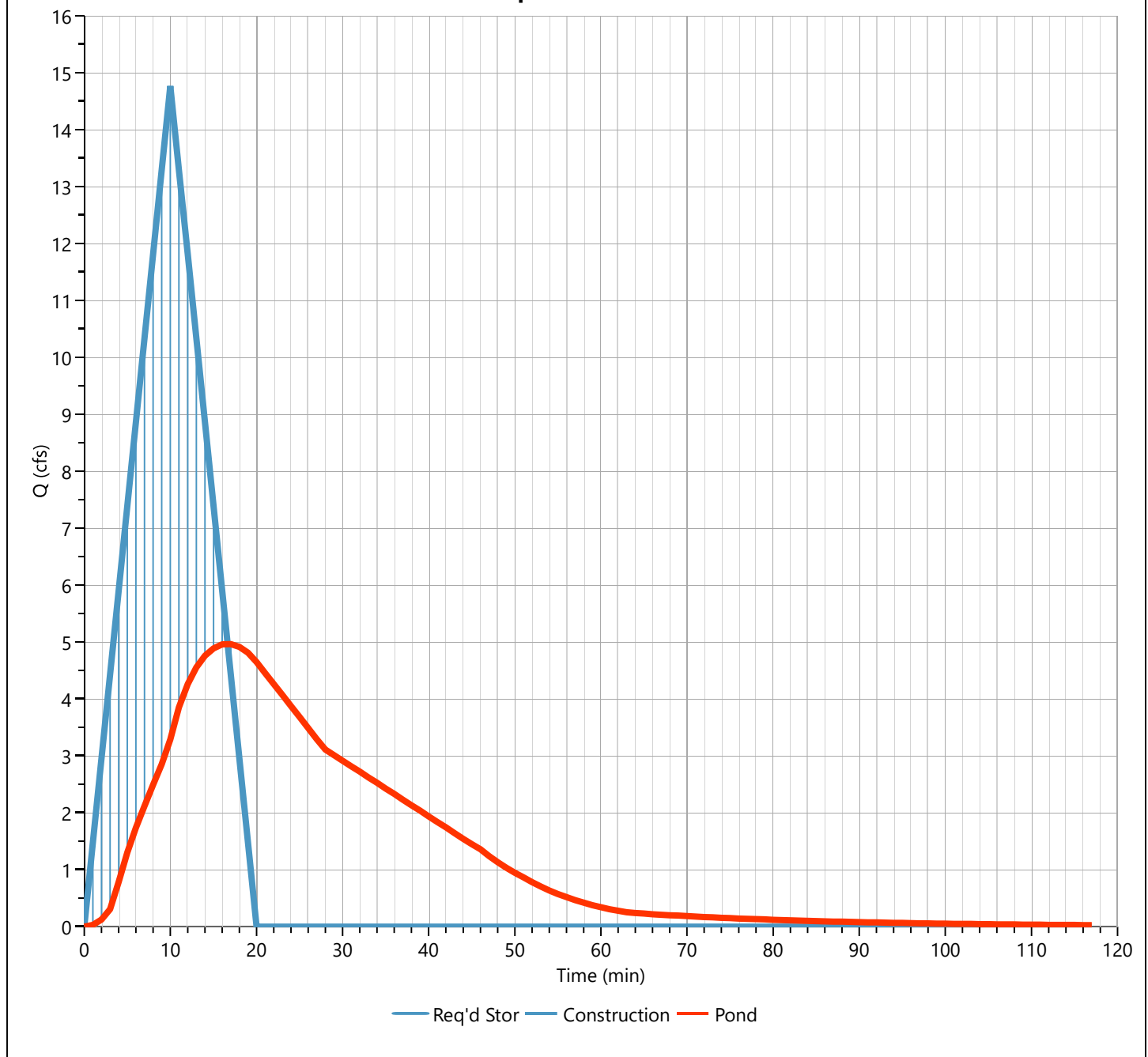
Hyd. No. 3

Hydrograph Type	= Pond Route	Peak Flow	= 4.963 cfs
Storm Frequency	= 50-yr	Time to Peak	= 0.28 hrs
Time Interval	= 1 min	Hydrograph Volume	= 8,857 cuft
Inflow Hydrograph	= 2 - Construction	Max. Elevation	= 46.72 ft
Pond Name	= Pond	Max. Storage	= 5,774 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 17 min

Qp = 4.96 cfs



Hydrograph Discharge Table

Pond

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
2	0.122	38	2.132	74	0.155				
3	0.306	39	2.037	75	0.148				
4	0.786	40	1.936	76	0.142				
5	1.298	41	1.838	77	0.136				
6	1.733	42	1.745	78	0.130				
7	2.118	43	1.642	79	0.125				
8	2.491	44	1.541	80	0.120				
9	2.852	45	1.447	81	0.115				
10	3.286	46	1.356	82	0.110				
11	3.853	47	1.239	83	0.105				
12	4.258	48	1.133	84	0.101				
13	4.551	49	1.035	85	0.097				
14	4.756	50	0.946	86	0.093				
15	4.887	51	0.864	87	0.089				
16	4.955	52	0.782	88	0.085				
17	4.963	53	0.705	89	0.081				
18	4.914	54	0.635	90	0.078				
19	4.810	55	0.572	91	0.075				
20	4.646	56	0.516	92	0.072				
21	4.453	57	0.465	93	0.069				
22	4.260	58	0.419	94	0.066				
23	4.068	59	0.378	95	0.063				
24	3.873	60	0.340	96	0.060				
25	3.680	61	0.307	97	0.058				
26	3.488	62	0.276	98	0.055				
27	3.292	63	0.249	99	0.053				
28	3.110	64	0.237	100	0.051				
29	3.012	65	0.227	101	0.049				
30	2.915	66	0.217	...end	...end				
31	2.816	67	0.208						
32	2.720	68	0.200						
33	2.621	69	0.191						
34	2.525	70	0.183						
35	2.425	71	0.176						
36	2.329	72	0.168						
37	2.230	73	0.161						

Design Storm Report

Custom Storm filename:

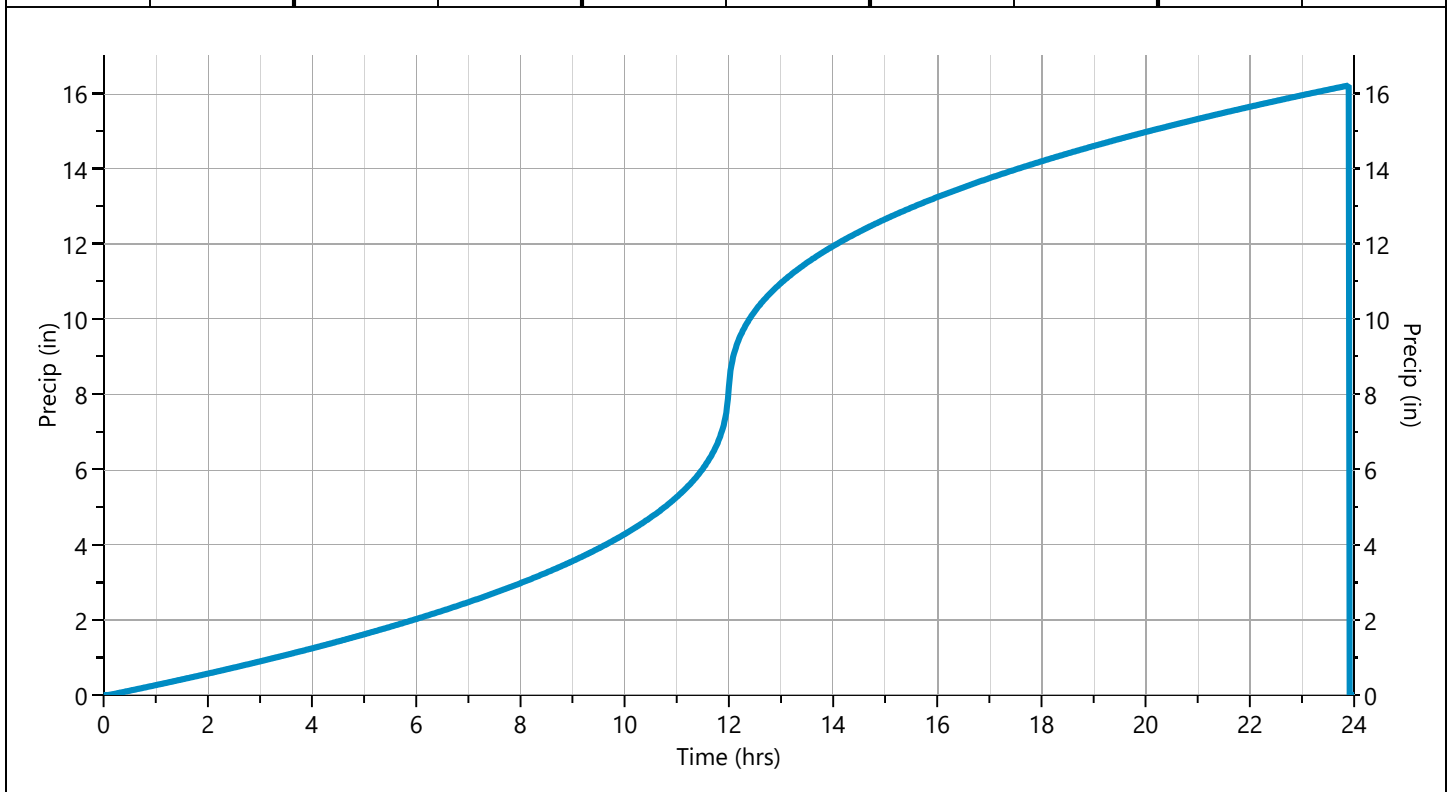
Hydrology Studio v 3.0.0.24

07-01-2022

Storm Distribution: IDF Based - Synthetic, 24-hr

Storm Duration	Total Rainfall Volume (in)							
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	✓ 50-yr	100-yr
24 hrs	5.92	6.46	0	7.89	9.93	12.94	16.26	20.28

Incremental Rainfall Distribution, 50-yr									
Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)
11.50	0.031233	11.68	0.041438	11.87	0.071266	12.05	0.140716	12.23	0.051319
11.52	0.031891	11.70	0.042859	11.88	0.077443	12.07	0.117218	12.25	0.049069
11.53	0.032588	11.72	0.044417	11.90	0.085169	12.08	0.101322	12.27	0.047060
11.55	0.033326	11.73	0.046134	11.92	0.095145	12.10	0.089816	12.28	0.045254
11.57	0.034111	11.75	0.048037	11.93	0.108574	12.12	0.081077	12.30	0.043620
11.58	0.034948	11.77	0.050161	11.95	0.127708	12.13	0.074193	12.32	0.042133
11.60	0.035841	11.78	0.052550	11.97	0.157287	12.15	0.068616	12.33	0.040773
11.62	0.036798	11.80	0.055260	11.98	0.209205	12.17	0.063996	12.35	0.039523
11.63	0.037827	11.82	0.058366	12.00	0.323314	12.18	0.060098	12.37	0.038371
11.65	0.038936	11.83	0.061968	12.02	0.253199	12.20	0.056758	12.38	0.037303
11.67	0.040135	11.85	0.066203	12.03	0.179125	12.22	0.053861	12.40	0.036311



Hydrograph 100-yr Summary

Project Name: Prestige Fitness Club

Hydrology Studio v 3.0.0.24

07-01-2022

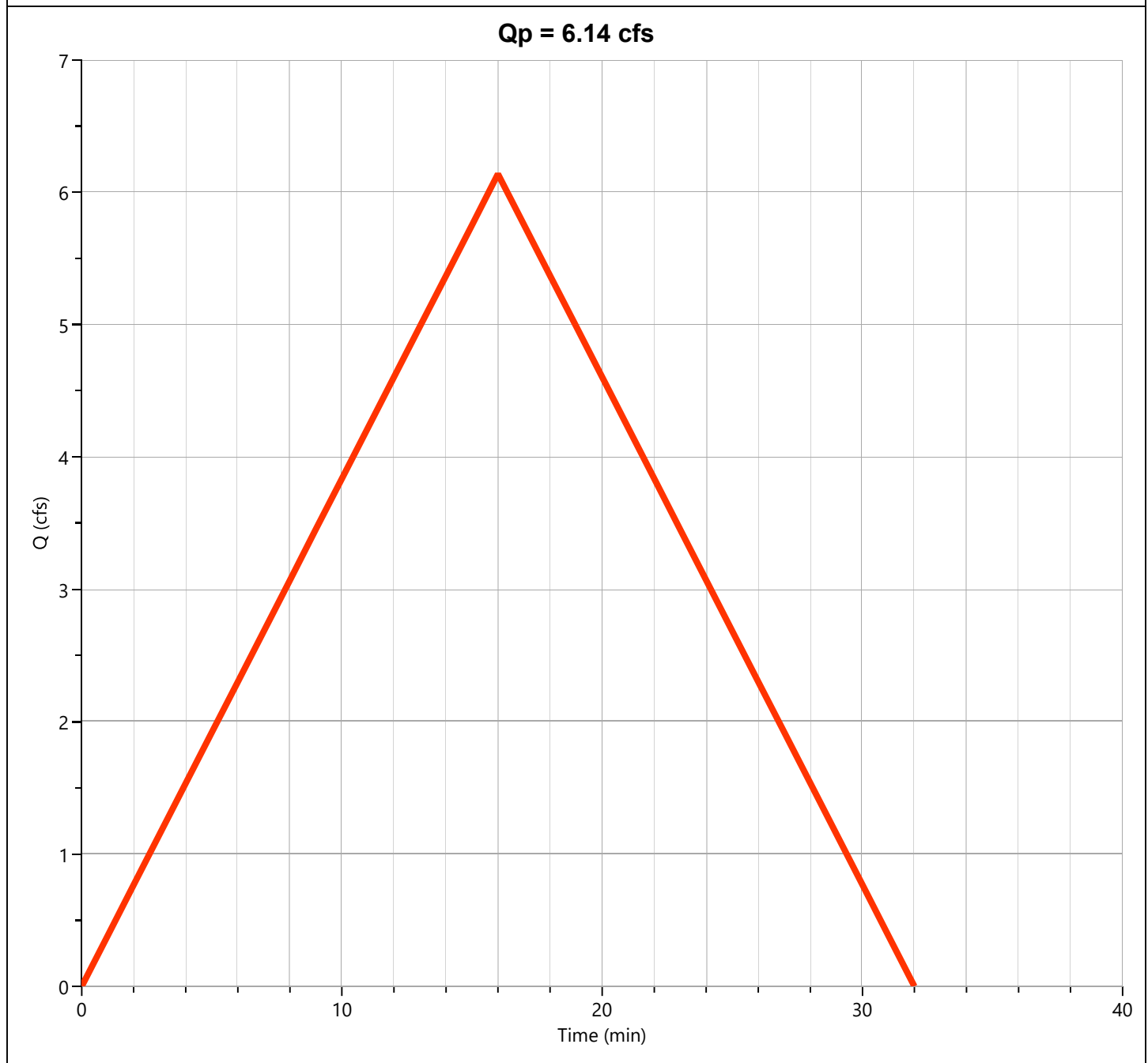
Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Flow (cfs)	Time to Peak (hrs)	Hydrograph Volume (cuft)	Inflow Hyd(s)	Maximum Elevation (ft)	Maximum Storage (cuft)
1	Rational	Pre Existing	6.138	0.27	5,892	---		
2	Rational	Post Construction	16.28	0.17	9,770	---		
3	Pond Route	Pond	5.365	0.28	9,769	2	47.74	6,419

Hydrograph Report

Pre Existing

Hyd. No. 1

Hydrograph Type	= Rational	Peak Flow	= 6.138 cfs
Storm Frequency	= 100-yr	Time to Peak	= 0.27 hrs
Time Interval	= 1 min	Runoff Volume	= 5,892 cuft
Drainage Area	= 1.91 ac	Runoff Coeff.	= 0.35
Tc Method	= TR55 (See Worksheet)	Time of Conc. (Tc)	= 16.0 min
IDF Curve	= mississippi.idf	Intensity	= 9.18 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1



Hydrograph Discharge Table

Existing

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
1	0.384								
2	0.767								
3	1.151								
4	1.534								
5	1.918								
6	2.302								
7	2.685								
8	3.069								
9	3.453								
10	3.836								
11	4.220								
12	4.603								
13	4.987								
14	5.371								
15	5.754								
16	6.138								
17	5.754								
18	5.371								
19	4.987								
20	4.603								
21	4.220								
22	3.836								
23	3.453								
24	3.069								
25	2.685								
26	2.302								
27	1.918								
28	1.534								
29	1.151								
30	0.767								
31	0.384								
32	0.000								
...end	...end								

Hydrograph Report

Post Construction

Hyd. No. 2

Hydrograph Type	= Rational	Peak Flow	= 16.28 cfs
Storm Frequency	= 100-yr	Time to Peak	= 0.17 hrs
Time Interval	= 1 min	Runoff Volume	= 9,770 cuft
Drainage Area	= 1.91 ac	Runoff Coeff.	= 0.75*
Tc Method	= User	Time of Conc. (Tc)	= 10.0 min
IDF Curve	= mississippi.idf	Intensity	= 11.37 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1

* Composite C Worksheet

AREA (ac)	C	DESCRIPTION
0.4	0.35	green
1.51	0.85	pave
1.91	0.75	



Hydrograph Report

Pond

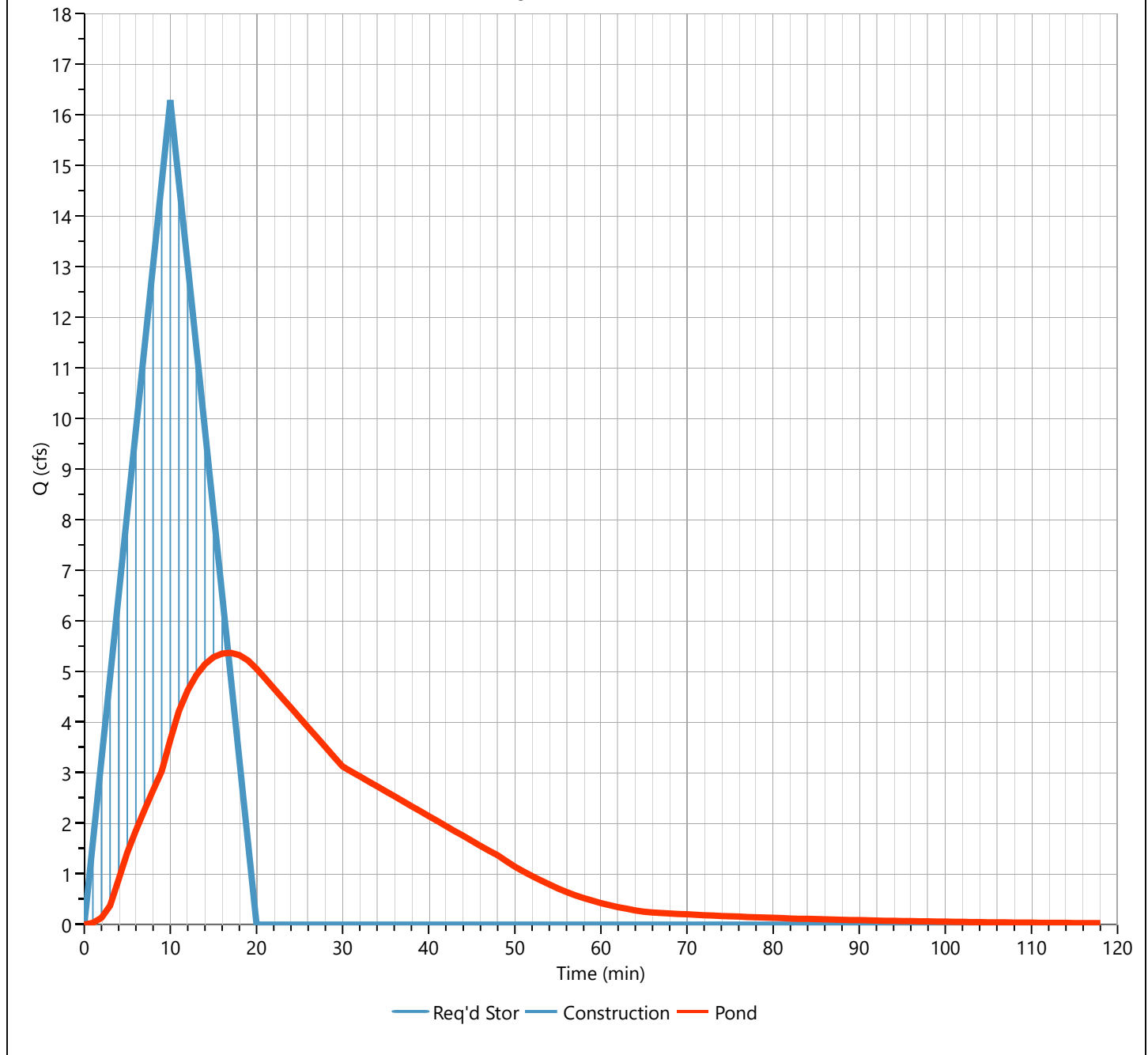
Hyd. No. 3

Hydrograph Type	= Pond Route	Peak Flow	= 5.365 cfs
Storm Frequency	= 100-yr	Time to Peak	= 0.28 hrs
Time Interval	= 1 min	Hydrograph Volume	= 9,769 cuft
Inflow Hydrograph	= 2 - Construction	Max. Elevation	= 47.74 ft
Pond Name	= Pond	Max. Storage	= 6,419 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 17 min

Qp = 5.37 cfs



Hydrograph Discharge Table

Pond

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
2	0.135	38	2.339	74	0.169				
3	0.372	39	2.241	75	0.162				
4	0.891	40	2.142	76	0.155				
5	1.422	41	2.047	77	0.149				
6	1.856	42	1.947	78	0.143				
7	2.264	43	1.848	79	0.137				
8	2.650	44	1.755	80	0.131				
9	3.029	45	1.653	81	0.125				
10	3.649	46	1.552	82	0.120				
11	4.216	47	1.457	83	0.115				
12	4.628	48	1.367	84	0.110				
13	4.928	49	1.252	85	0.106				
14	5.141	50	1.144	86	0.101				
15	5.280	51	1.045	87	0.097				
16	5.353	52	0.955	88	0.093				
17	5.365	53	0.873	89	0.089				
18	5.319	54	0.791	90	0.085				
19	5.216	55	0.713	91	0.082				
20	5.054	56	0.642	92	0.078				
21	4.860	57	0.579	93	0.075				
22	4.667	58	0.522	94	0.072				
23	4.474	59	0.470	95	0.069				
24	4.281	60	0.424	96	0.066				
25	4.088	61	0.382	97	0.063				
26	3.894	62	0.344	98	0.061				
27	3.701	63	0.310	99	0.058				
28	3.508	64	0.280	100	0.056				
29	3.313	65	0.252	101	0.053				
30	3.124	66	0.238	...end	...end				
31	3.022	67	0.228						
32	2.926	68	0.218						
33	2.827	69	0.209						
34	2.731	70	0.201						
35	2.631	71	0.192						
36	2.535	72	0.184						
37	2.436	73	0.176						

Design Storm Report

Custom Storm filename:

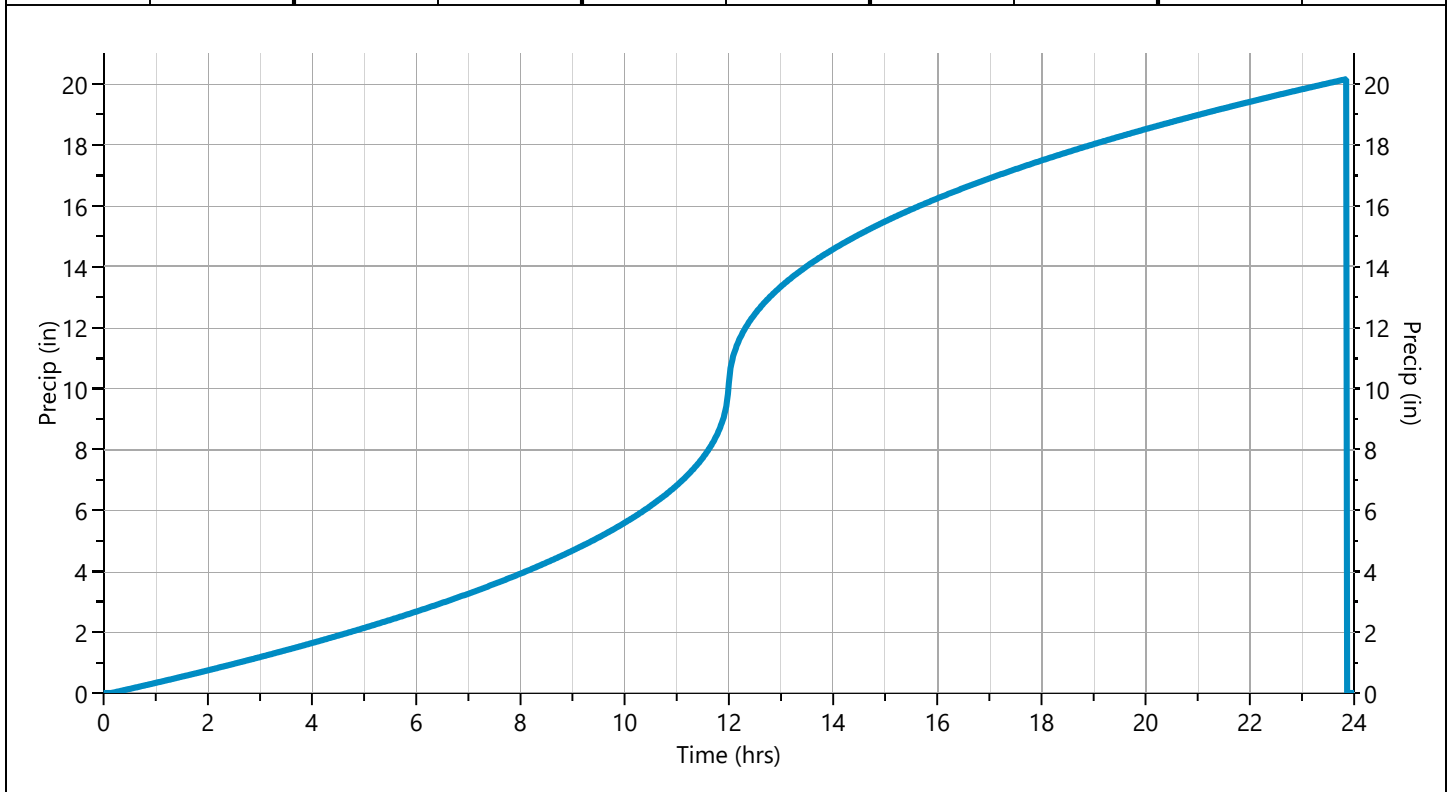
Hydrology Studio v 3.0.0.24

07-01-2022

Storm Distribution: IDF Based - Synthetic, 24-hr

Storm Duration	Total Rainfall Volume (in)								
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	✓ 100-yr	
24 hrs	5.92	6.46	0	7.89	9.93	12.94	16.26	20.28	

Incremental Rainfall Distribution, 100-yr									
Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)	Time (hrs)	Precip (in)
11.50	0.037149	11.68	0.048193	11.87	0.079395	12.05	0.151688	12.23	0.058659
11.52	0.037870	11.70	0.049710	11.88	0.085762	12.07	0.126883	12.25	0.056291
11.53	0.038632	11.72	0.051368	11.90	0.093715	12.08	0.110370	12.27	0.054170
11.55	0.039438	11.73	0.053189	11.92	0.103992	12.10	0.098500	12.28	0.052257
11.57	0.040293	11.75	0.055202	11.93	0.117883	12.12	0.089503	12.30	0.050520
11.58	0.041203	11.77	0.057441	11.95	0.137888	12.13	0.082413	12.32	0.048935
11.60	0.042171	11.78	0.059951	11.97	0.169560	12.15	0.076658	12.33	0.047481
11.62	0.043207	11.80	0.062788	11.98	0.228222	12.17	0.071878	12.35	0.046142
11.63	0.044317	11.82	0.066030	12.00	0.376548	12.18	0.067831	12.37	0.044902
11.65	0.045510	11.83	0.069774	12.02	0.281840	12.20	0.064353	12.38	0.043752
11.67	0.046798	11.85	0.074163	12.03	0.193698	12.22	0.061325	12.40	0.042680



IDF Report

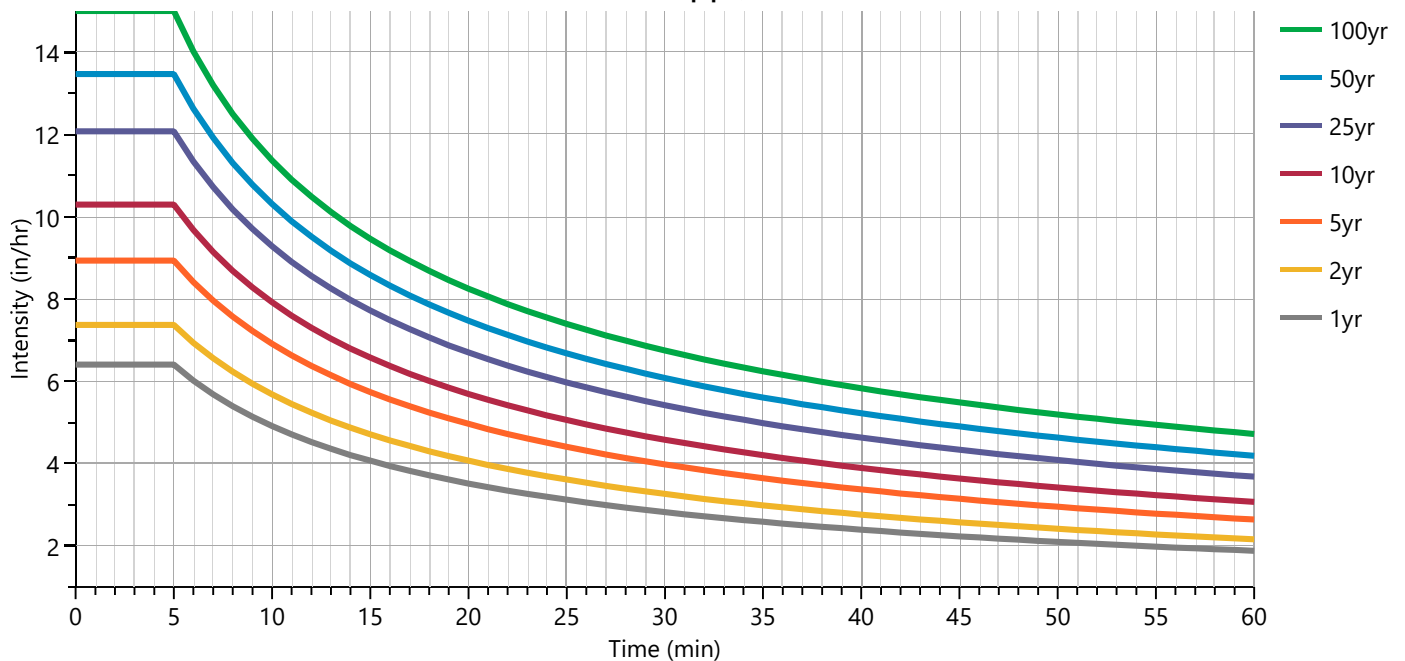
Equation Coefficients	Intensity = B / (Tc + D)^E (in/hr)								
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
B	28.9467	36.1415	0.0000	44.4487	45.5656	48.1686	47.2579	45.6023	
D	5.0000	5.6000	0.0000	5.8000	5.0000	4.4000	3.6000	2.6000	
E	0.6550	0.6734	0.0000	0.6744	0.6462	0.6175	0.5835	0.5483	

Minimum Tc = 5 minutes

Tc (min)	Intensity Values (in/hr)								
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
Cf	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
5	6.41	7.37	0	8.93	10.29	12.08	13.47	15.00	
10	4.91	5.68	0	6.91	7.92	9.28	10.31	11.37	
15	4.07	4.71	0	5.74	6.58	7.72	8.59	9.46	
20	3.52	4.07	0	4.96	5.69	6.70	7.47	8.25	
25	3.12	3.61	0	4.40	5.06	5.97	6.68	7.40	
30	2.82	3.26	0	3.98	4.58	5.42	6.08	6.75	
35	2.58	2.98	0	3.64	4.20	4.98	5.61	6.24	
40	2.39	2.76	0	3.37	3.89	4.63	5.22	5.83	
45	2.23	2.57	0	3.14	3.64	4.33	4.90	5.48	
50	2.10	2.41	0	2.95	3.42	4.08	4.63	5.19	
55	1.98	2.28	0	2.78	3.23	3.87	4.40	4.94	
60	1.88	2.16	0	2.64	3.07	3.68	4.19	4.72	

Cf = Correction Factor applied to Rational Method runoff coefficient.

Mississippi, USA



Precipitation Report

	Active	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
Active			✓		✓	✓	✓	✓	✓
SCS Storms	> SCS Dimensionless Storms								
SCS 6hr		3.25	3.72	0	4.63	5.52	6.96	8.22	9.63
Type I, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Type IA, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Type II, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Type II FL, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Type III, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Synthetic Storms	> IDF-Based Synthetic Storms								
1-hr		1.88	2.16	0	2.64	3.07	3.68	4.19	4.72
2-hr		2.45	2.79	0	3.41	4.02	4.90	5.69	6.53
3-hr		2.84	3.22	0	3.93	4.69	5.77	6.77	7.87
6-hr		3.64	4.08	0	4.98	6.04	7.57	9.09	10.81
12-hr		4.65	5.14	0	6.28	7.75	9.91	12.17	14.81
24-hr	✓	5.92	6.46	0	7.89	9.93	12.94	16.26	20.28
Huff Distribution	> 1st Quartile (0 to 6 hrs)								
1-hr		1.96	2.23	0	2.72	3.16	3.82	4.37	4.96
2-hr		2.45	2.79	0	3.41	3.99	4.89	5.66	6.49
3-hr		2.74	3.11	0	3.83	4.52	5.62	6.59	7.66
6-hr		3.25	3.72	0	4.63	5.52	6.96	8.22	9.63
Huff Distribution	> 2nd Quartile (>6 to 12 hrs)								
8-hr		0	0	0	0	0	0	0	0
12-hr		3.81	4.42	0	5.56	6.65	8.34	9.82	11.40
Huff Distribution	> 3rd Quartile (>12 to 24 hrs)								
18-hr		0	0	0	0	0	0	0	0
24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Custom Storms	> Custom Storm Distributions								
My Custom Storm 1		0	0	0	0	0	0	0	0
My Custom Storm 2		0	0	0	0	0	0	0	0
My Custom Storm 3		0	0	0	0	0	0	0	0
My Custom Storm 4		0	0	0	0	0	0	0	0
My Custom Storm 5		0	0	0	0	0	0	0	0
My Custom Storm 6		0	0	0	0	0	0	0	0
My Custom Storm 7		0	0	0	0	0	0	0	0
My Custom Storm 8		0	0	0	0	0	0	0	0
My Custom Storm 9		0	0	0	0	0	0	0	0
My Custom Storm 10		0	0	0	0	0	0	0	0

Precipitation Report Cont'd

Precipitation filename: MandevilleLA.pcp

Rainfall totals in Inches

07-01-2022

	Active	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
Active			✓		✓	✓	✓	✓	✓
Huff Indiana	> Indianapolis								
30-min		1.47	1.68	0	2.03	2.33	2.75	3.08	3.42
1-hr		1.96	2.23	0	2.72	3.16	3.82	4.37	4.96
2-hr		2.45	2.79	0	3.41	3.99	4.89	5.66	6.49
3-hr		2.74	3.11	0	3.83	4.52	5.62	6.59	7.66
6-hr		3.25	3.72	0	4.63	5.52	6.96	8.22	9.63
12-hr		3.81	4.42	0	5.56	6.65	8.34	9.82	11.40
24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Huff Indiana	> Evansville								
30-min		1.47	1.68	0	2.03	2.33	2.75	3.08	3.42
1-hr		1.96	2.23	0	2.72	3.16	3.82	4.37	4.96
2-hr		2.45	2.79	0	3.41	3.99	4.89	5.66	6.49
3-hr		2.74	3.11	0	3.83	4.52	5.62	6.59	7.66
6-hr		3.25	3.72	0	4.63	5.52	6.96	8.22	9.63
12-hr		3.81	4.42	0	5.56	6.65	8.34	9.82	11.40
24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Huff Indiana	> Fort Wayne								
30-min		1.47	1.68	0	2.03	2.33	2.75	3.08	3.42
1-hr		1.96	2.23	0	2.72	3.16	3.82	4.37	4.96
2-hr		2.45	2.79	0	3.41	3.99	4.89	5.66	6.49
3-hr		2.74	3.11	0	3.83	4.52	5.62	6.59	7.66
6-hr		3.25	3.72	0	4.63	5.52	6.96	8.22	9.63
12-hr		3.81	4.42	0	5.56	6.65	8.34	9.82	11.40
24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
Huff Indiana	> South Bend								
30-min		1.47	1.68	0	2.03	2.33	2.75	3.08	3.42
1-hr		1.96	2.23	0	2.72	3.16	3.82	4.37	4.96
2-hr		2.45	2.79	0	3.41	3.99	4.89	5.66	6.49
3-hr		2.74	3.11	0	3.83	4.52	5.62	6.59	7.66
6-hr		3.25	3.72	0	4.63	5.52	6.96	8.22	9.63
12-hr		3.81	4.42	0	5.56	6.65	8.34	9.82	11.40
24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10

Precipitation Report Cont'd

Precipitation filename: MandevilleLA.pcp

Rainfall totals in Inches

07-01-2022

	Active	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
Active			✓		✓	✓	✓	✓	✓
NRCS Storms	> NRCS Dimensionless Storms								
NRCS MSE1, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCS MSE2, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCS MSE3, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCS MSE4, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCS MSE5, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCS MSE6, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NOAA-A, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NOAA-B, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NOAA-C, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NOAA-D, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCC-A, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCC-B, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCC-C, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
NRCC-D, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
CA-1, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
CA-2, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
CA-3, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
CA-4, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
CA-5, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
CA-6, 24-hr		4.47	5.22	0	6.58	7.83	9.74	11.40	13.10
FDOT Storms	> Florida DOT Storms								
FDOT, 1-hr		0	0	0	0	0	0	0	0
FDOT, 2-hr		0	0	0	0	0	0	0	0
FDOT, 4-hr		0	0	0	0	0	0	0	0
FDOT, 8-hr		0	0	0	0	0	0	0	0
FDOT, 24-hr		0	0	0	0	0	0	0	0
FDOT, 72-hr		0	0	0	0	0	0	0	0
SFWMD, 72-hr		0	0	0	0	0	0	0	0
Austin Storms	> Austin Frequency Storms								
Austin Zone 1, 24-hr		0	0	0	0	0	0	0	0
Austin Zone 2, 24-hr		0	0	0	0	0	0	0	0