

Routing Diagram for Proposed Conditions 4-9-24
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Proposed Conditions 4-9-24

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
3.357	39	>75% Grass cover, Good, HSG A (S10, S3, S4, S5, S6A, S6B, S6C, S7, S8, S9)
2.425	80	>75% Grass cover, Good, HSG D (S2, S3, S5, S6A, S6B, S7)
0.510	98	Paved parking, HSG A (S3, S5, S6A, S6B, S6C, S7, S8)
0.475	98	Paved parking, HSG D (S2, S3, S6A, S6B)
2.949	30	Woods, Good, HSG A (S10, S3, S4, S5, S7, S8, S9)
9.403	77	Woods, Good, HSG D (S2, S3, S4, S5, S6A, S6B, S7)
19.119	65	TOTAL AREA

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Type II 24-hr Q100 Rainfall=5.25"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 points
 Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment S10: Lot 8 East	Runoff Area=35,984 sf 0.00% Impervious Runoff Depth=0.06" Flow Length=210' Tc=10.7 min CN=WQ Runoff=0.01 cfs 0.004 af
Subcatchment S2: Lot 2 House Site	Runoff Area=84,188 sf 6.12% Impervious Runoff Depth=3.07" Flow Length=420' Tc=5.1 min CN=WQ Runoff=10.36 cfs 0.494 af
Subcatchment S3: Lot 3 House Site	Runoff Area=68,847 sf 10.45% Impervious Runoff Depth=2.49" Flow Length=530' Tc=10.4 min CN=WQ Runoff=5.57 cfs 0.328 af
Subcatchment S4: Lot 4 Woods	Runoff Area=89,067 sf 0.00% Impervious Runoff Depth=0.58" Flow Length=560' Tc=21.6 min CN=WQ Runoff=1.09 cfs 0.098 af
Subcatchment S5: Lot 4 House Site	Runoff Area=199,110 sf 2.15% Impervious Runoff Depth=2.26" Flow Length=935' Tc=15.2 min CN=WQ Runoff=12.94 cfs 0.860 af
Subcatchment S6A: Lots 5 House Site	Runoff Area=50,961 sf 9.89% Impervious Runoff Depth=3.06" Flow Length=725' Tc=10.2 min CN=WQ Runoff=5.22 cfs 0.298 af
Subcatchment S6B: Lots 7 House Site	Runoff Area=164,212 sf 2.67% Impervious Runoff Depth=2.85" Flow Length=905' Tc=11.9 min CN=WQ Runoff=15.14 cfs 0.896 af
Subcatchment S6C: Lots 5, 7 & 8 Driveway	Runoff Area=11,415 sf 50.10% Impervious Runoff Depth=2.64" Flow Length=35' Slope=0.0500 '/' Tc=1.6 min CN=WQ Runoff=1.06 cfs 0.058 af
Subcatchment S7: Lot 8 House Site	Runoff Area=46,146 sf 8.90% Impervious Runoff Depth=2.28" Flow Length=535' Tc=12.4 min CN=WQ Runoff=3.22 cfs 0.201 af
Subcatchment S8: Lot 6 House Site	Runoff Area=39,264 sf 17.89% Impervious Runoff Depth=1.10" Flow Length=220' Tc=8.6 min CN=WQ Runoff=1.11 cfs 0.082 af
Subcatchment S9: Lot 6 East	Runoff Area=43,637 sf 0.00% Impervious Runoff Depth=0.18" Flow Length=235' Tc=12.6 min CN=WQ Runoff=0.04 cfs 0.015 af
Reach R1: Lot 2 Stone Swale	Avg. Flow Depth=0.71' Max Vel=7.16 fps Inflow=10.36 cfs 0.494 af n=0.040 L=315.0' S=0.1206 '/' Capacity=86.00 cfs Outflow=9.93 cfs 0.494 af
Reach R10: Lot 6 Stone Swale	Avg. Flow Depth=1.48' Max Vel=8.54 fps Inflow=36.34 cfs 2.395 af n=0.040 L=190.0' S=0.0737 '/' Capacity=67.22 cfs Outflow=35.91 cfs 2.395 af
Reach R11: IB2 Pretreatment Swale	Avg. Flow Depth=2.72' Max Vel=2.39 fps Inflow=35.91 cfs 2.395 af n=0.080 L=100.0' S=0.0100 '/' Capacity=78.61 cfs Outflow=35.35 cfs 2.395 af
Reach R12: Lot 5 Stone Swale	Avg. Flow Depth=0.55' Max Vel=5.41 fps Inflow=5.22 cfs 0.298 af n=0.040 L=190.0' S=0.0947 '/' Capacity=76.22 cfs Outflow=5.11 cfs 0.298 af
Reach R13: Lot 7 Stone Swale	Avg. Flow Depth=0.96' Max Vel=6.80 fps Inflow=15.14 cfs 0.896 af n=0.040 L=225.0' S=0.0756 '/' Capacity=68.06 cfs Outflow=14.87 cfs 0.896 af

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Reach R14: Lots 7-8 Driveway Culvert Avg. Flow Depth=0.99' Max Vel=11.99 fps Inflow=14.87 cfs 0.896 af
18.0" Round Pipe n=0.013 L=30.0' S=0.0333 '/' Capacity=19.18 cfs Outflow=14.85 cfs 0.896 af

Reach R15: Lot 6 Grass Swale Avg. Flow Depth=0.66' Max Vel=2.72 fps Inflow=3.41 cfs 0.259 af
n=0.035 L=205.0' S=0.0146 '/' Capacity=34.23 cfs Outflow=3.38 cfs 0.259 af

Reach R16: Lot 6 Stone Swale Avg. Flow Depth=1.02' Max Vel=7.50 fps Inflow=18.23 cfs 1.155 af
n=0.040 L=140.0' S=0.0857 '/' Capacity=72.50 cfs Outflow=18.04 cfs 1.155 af

Reach R17: Lot 6 Driveway Culvert Avg. Flow Depth=1.17' Max Vel=15.46 fps Inflow=18.04 cfs 1.155 af
18.0" Round Pipe n=0.013 L=30.0' S=0.0667 '/' Capacity=16.68 cfs Outflow=18.01 cfs 1.155 af

Reach R18: S/N 001 Avg. Flow Depth=1.08' Max Vel=19.32 fps Inflow=44.29 cfs 2.002 af
36.0" Round Pipe n=0.013 L=35.0' S=0.0571 '/' Capacity=159.44 cfs Outflow=44.33 cfs 2.002 af

Reach R2: Lots 2-3 Driveway Culvert Avg. Flow Depth=0.56' Max Vel=16.30 fps Inflow=9.93 cfs 0.494 af
18.0" Round Pipe n=0.013 L=30.0' S=0.1000 '/' Capacity=33.22 cfs Outflow=9.92 cfs 0.494 af

Reach R3: Observatory Rd. West Swale Avg. Flow Depth=0.89' Max Vel=9.47 fps Inflow=15.24 cfs 0.822 af
n=0.022 L=190.0' S=0.0526 '/' Capacity=177.22 cfs Outflow=15.01 cfs 0.822 af

Reach R4: IB1 Pretreatment Swale Avg. Flow Depth=1.82' Max Vel=1.81 fps Inflow=15.01 cfs 0.822 af
n=0.080 L=110.0' S=0.0091 '/' Capacity=74.96 cfs Outflow=14.32 cfs 0.822 af

Reach R5: Observatory Rd. Middle Avg. Flow Depth=0.89' Max Vel=8.74 fps Inflow=13.28 cfs 0.485 af
n=0.022 L=375.0' S=0.0453 '/' Capacity=164.47 cfs Outflow=12.80 cfs 0.485 af

Reach R6: Lots 4-8 Driveway Culvert Avg. Flow Depth=0.70' Max Vel=15.59 fps Inflow=12.80 cfs 0.485 af
18.0" Round Pipe n=0.013 L=40.0' S=0.0750 '/' Capacity=28.77 cfs Outflow=12.74 cfs 0.485 af

Reach R7: Observatory Rd. East Swale Avg. Flow Depth=1.10' Max Vel=5.58 fps Inflow=12.74 cfs 0.485 af
n=0.022 L=415.0' S=0.0145 '/' Capacity=92.88 cfs Outflow=11.57 cfs 0.485 af

Reach R8: Lot 4 Stone Swale Avg. Flow Depth=0.96' Max Vel=5.80 fps Inflow=12.94 cfs 0.860 af
n=0.040 L=145.0' S=0.0552 '/' Capacity=58.16 cfs Outflow=12.81 cfs 0.860 af

Reach R9: Lots 5-8 Driveway Culvert Avg. Flow Depth=1.01' Max Vel=16.43 fps Inflow=17.50 cfs 1.158 af
15.0" Round Pipe n=0.013 L=40.0' S=0.0750 '/' Capacity=17.69 cfs Outflow=17.47 cfs 1.158 af

Pond IB1: Infiltration Basin 1 Peak Elev=661.95' Storage=11,793 cf Inflow=14.32 cfs 0.822 af
Discarded=0.19 cfs 0.426 af Primary=12.24 cfs 0.387 af Outflow=12.43 cfs 0.813 af

Pond IB2: Infiltration Basin 2 Peak Elev=641.90' Storage=18,274 cf Inflow=35.38 cfs 2.411 af
Discarded=0.56 cfs 0.898 af Primary=33.63 cfs 1.512 af Outflow=34.20 cfs 2.410 af

Total Runoff Area = 19.119 ac Runoff Volume = 3.335 af Average Runoff Depth = 2.09"
94.85% Pervious = 18.134 ac 5.15% Impervious = 0.985 ac

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Summary for Subcatchment S10: Lot 8 East

Runoff = 0.01 cfs @ 12.15 hrs, Volume= 0.004 af, Depth= 0.06"

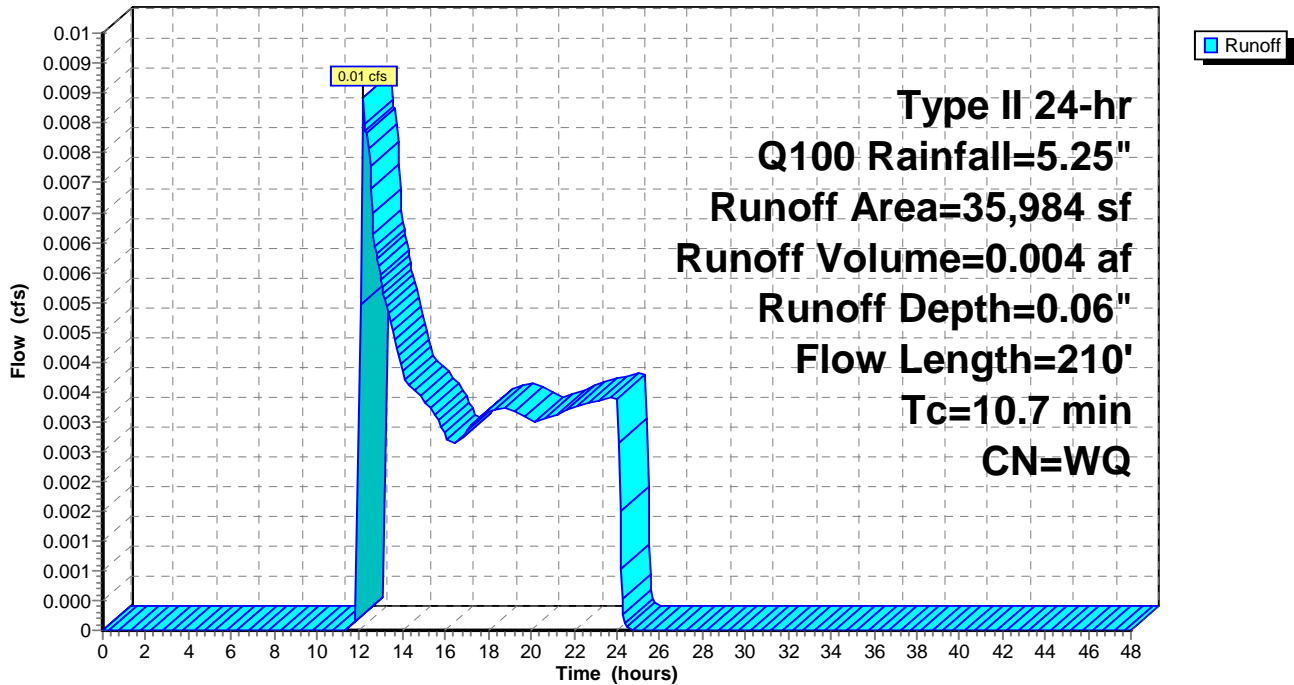
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 Type II 24-hr Q100 Rainfall=5.25"

Area (sf)	CN	Description
29,197	30	Woods, Good, HSG A
6,787	39	>75% Grass cover, Good, HSG A
35,984		Weighted Average
35,984		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.4	150	0.1600	0.39		Lag/CN Method, Lot 8 Woods
4.3	60	0.0800	0.23		Lag/CN Method, Lot 8 Lawn
10.7	210	Total			

Subcatchment S10: Lot 8 East

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Type II 24-hr Q100 Rainfall=5.25"

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Summary for Subcatchment S2: Lot 2 House Site

Runoff = 10.36 cfs @ 11.96 hrs, Volume= 0.494 af, Depth= 3.07"

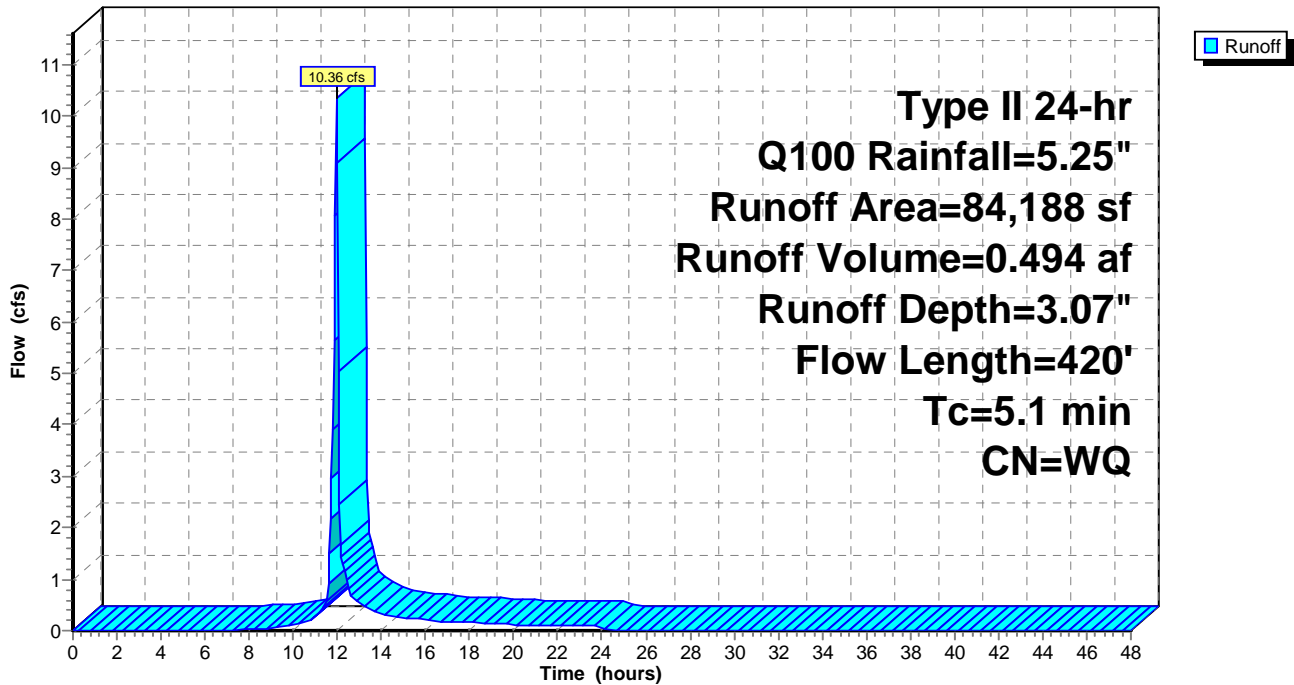
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Type II 24-hr Q100 Rainfall=5.25"

Area (sf)	CN	Description
49,129	77	Woods, Good, HSG D
29,906	80	>75% Grass cover, Good, HSG D
5,153	98	Paved parking, HSG D
84,188		Weighted Average
79,035		93.88% Pervious Area
5,153		6.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	285	0.1700	1.63		Lag/CN Method, Lot 2 Woods
1.6	115	0.1300	1.19		Lag/CN Method, Lot 2 Grass
0.6	20	0.0500	0.52		Lag/CN Method, Lot 2 Impervious
5.1	420	Total			

Subcatchment S2: Lot 2 House Site

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Summary for Subcatchment S3: Lot 3 House Site

Runoff = 5.57 cfs @ 12.02 hrs, Volume= 0.328 af, Depth= 2.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Type II 24-hr Q100 Rainfall=5.25"

Area (sf)	CN	Description
21,450	77	Woods, Good, HSG D
22,917	80	>75% Grass cover, Good, HSG D
7,155	98	Paved parking, HSG D
4,323	30	Woods, Good, HSG A
12,964	39	>75% Grass cover, Good, HSG A
38	98	Paved parking, HSG A
68,847		Weighted Average
61,654		89.55% Pervious Area
7,193		10.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	240	0.1800	1.25		Lag/CN Method, Lot 3 D Soils Woods
1.8	65	0.0700	0.60		Lag/CN Method, Lot 3 D Soils Lawn
0.8	20	0.0500	0.40		Lag/CN Method, Lot 3 D Soils Impervious
1.9	90	0.1100	0.81		Lag/CN Method, Lot 3 A Soils Woods
1.9	95	0.1100	0.81		Lag/CN Method, Lot 3 A Soils Lawn
0.8	20	0.0500	0.40		Lag/CN Method, Lot 3 A Soils Impervious
10.4	530	Total			

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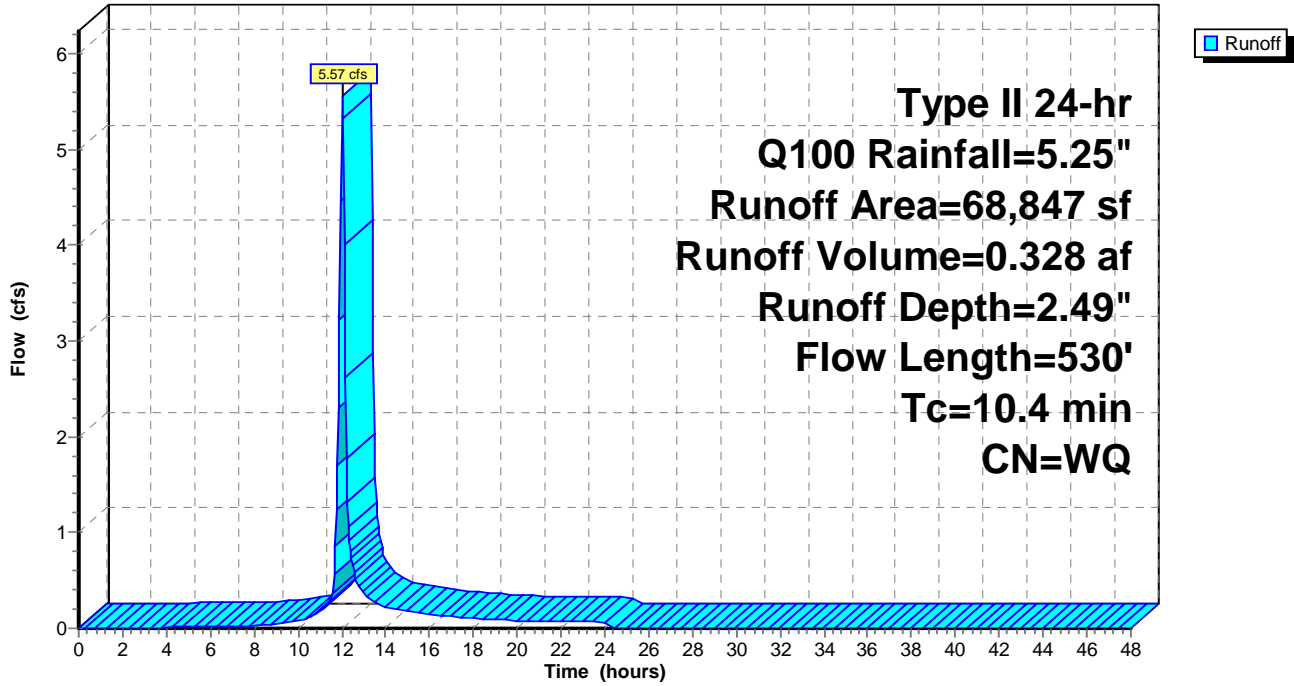
Type II 24-hr Q100 Rainfall=5.25"

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Subcatchment S3: Lot 3 House Site

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Summary for Subcatchment S4: Lot 4 Woods

Runoff = 1.09 cfs @ 12.15 hrs, Volume= 0.098 af, Depth= 0.58"

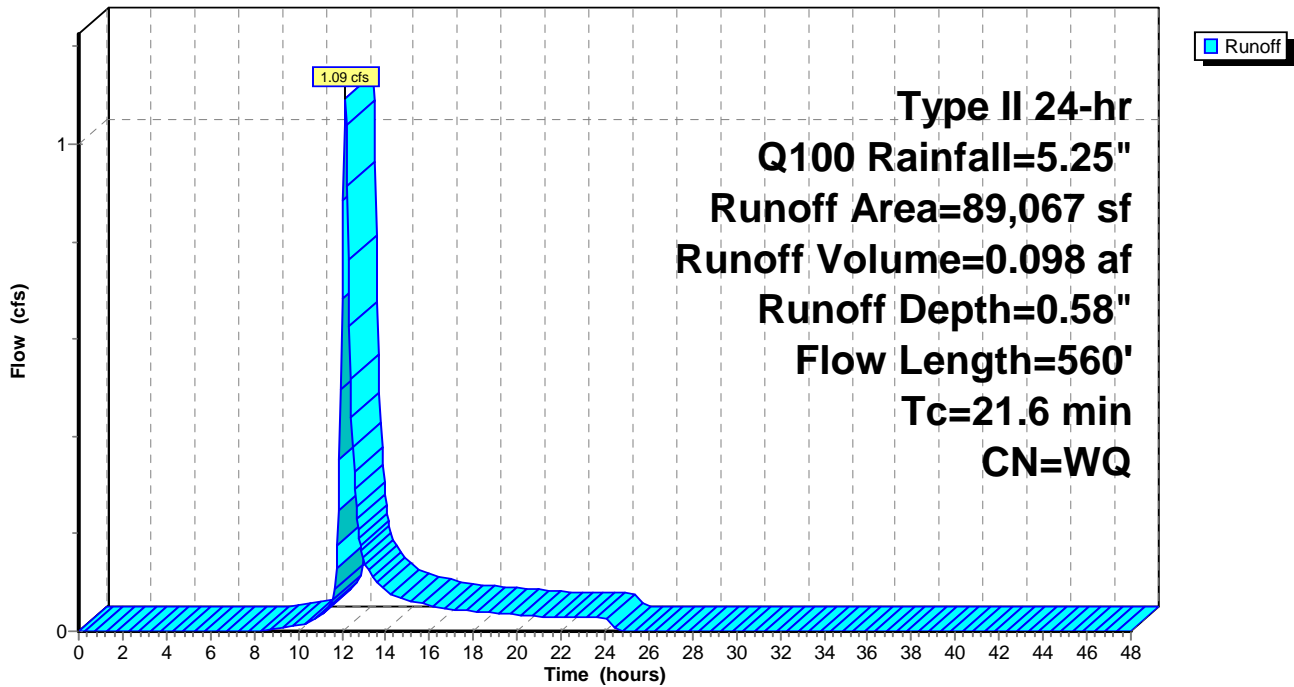
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Type II 24-hr Q100 Rainfall=5.25"

Area (sf)	CN	Description
15,676	77	Woods, Good, HSG D
48,302	30	Woods, Good, HSG A
25,089	39	>75% Grass cover, Good, HSG A
89,067		Weighted Average
89,067		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	255	0.1100	0.47		Lag/CN Method, Lot 4 D Soils Woods
10.2	260	0.0900	0.43		Lag/CN Method, Lot 4 A Soils Woods
2.3	45	0.1100	0.33		Lag/CN Method, Lot 4 A Soils Lawn
21.6	560	Total			

Subcatchment S4: Lot 4 Woods

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Summary for Subcatchment S5: Lot 4 House Site

Runoff = 12.94 cfs @ 12.07 hrs, Volume= 0.860 af, Depth= 2.26"

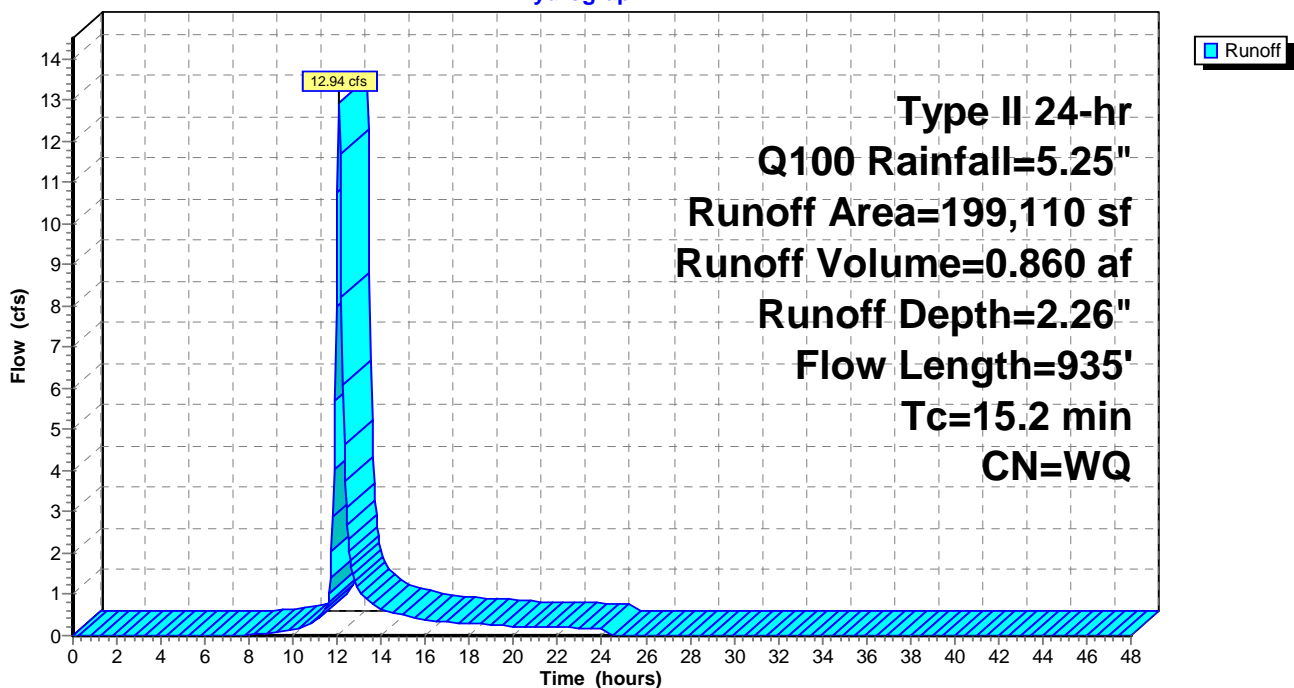
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Type II 24-hr Q100 Rainfall=5.25"

Area (sf)	CN	Description
144,334	77	Woods, Good, HSG D
4,500	80	>75% Grass cover, Good, HSG D
27,918	30	Woods, Good, HSG A
18,079	39	>75% Grass cover, Good, HSG A
4,279	98	Paved parking, HSG A
199,110		Weighted Average
194,831		97.85% Pervious Area
4,279		2.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	655	0.1300	1.20		Lag/CN Method, D Soils Woods
1.6	100	0.2000	1.02		Lag/CN Method, D Soils Lawn
1.9	100	0.1500	0.89		Lag/CN Method, A Soils Woods
1.7	60	0.0800	0.58		Lag/CN Method, A Soils Lawn
0.9	20	0.0500	0.37		Lag/CN Method, Lot 4 A Soils Impervious
15.2	935	Total			

Subcatchment S5: Lot 4 House Site

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Summary for Subcatchment S6A: Lots 5 House Site

Runoff = 5.22 cfs @ 12.02 hrs, Volume= 0.298 af, Depth= 3.06"

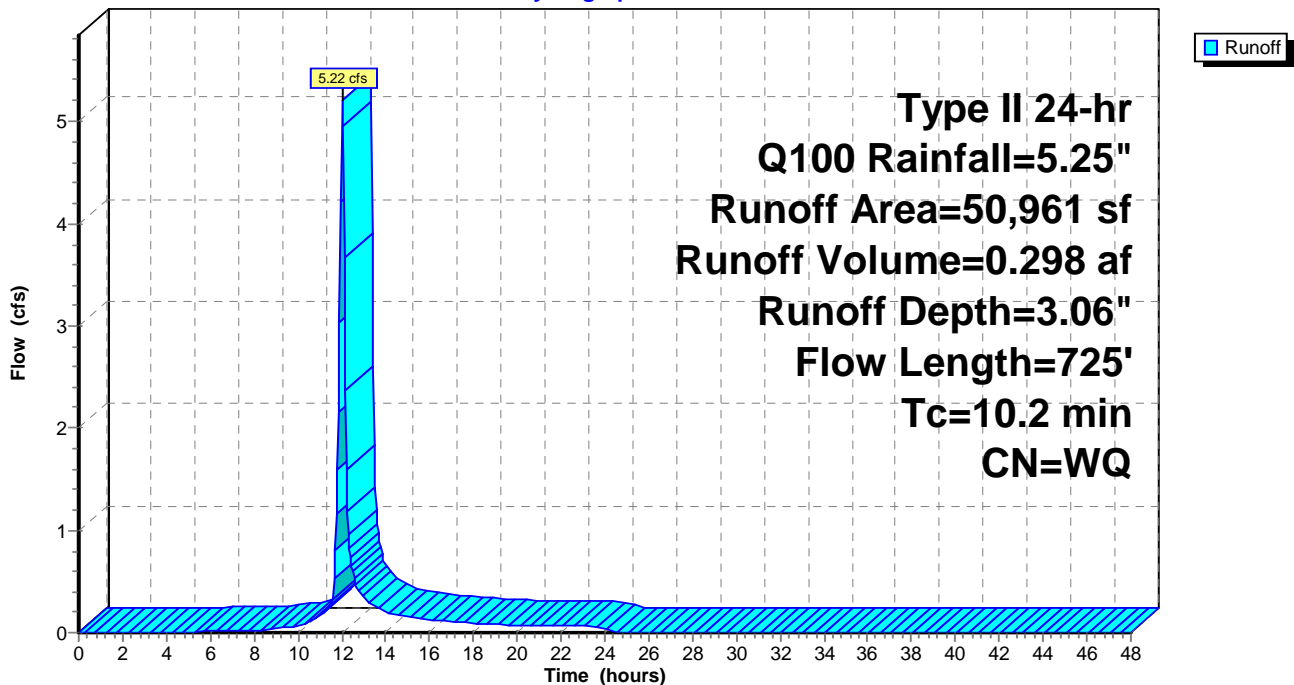
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Type II 24-hr Q100 Rainfall=5.25"

Area (sf)	CN	Description
20,074	77	Woods, Good, HSG D
23,541	80	>75% Grass cover, Good, HSG D
4,372	98	Paved parking, HSG D
2,308	39	>75% Grass cover, Good, HSG A
666	98	Paved parking, HSG A
50,961		Weighted Average
45,923		90.11% Pervious Area
5,038		9.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	360	0.1300	1.49		Lag/CN Method, Lots 5 D Soil Woods
3.4	250	0.1000	1.22		Lag/CN Method, Lots 5 D Soil Lawn
0.6	20	0.0500	0.52		Lag/CN Method, Lots 5 D Soil Impervious
1.6	75	0.0700	0.80		Lag/CN Method, Lots 5 A Soil Lawn
0.6	20	0.0500	0.52		Lag/CN Method, Lots 5 A Soil Impervious
10.2	725	Total			

Subcatchment S6A: Lots 5 House Site

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Summary for Subcatchment S6B: Lots 7 House Site

Runoff = 15.14 cfs @ 12.04 hrs, Volume= 0.896 af, Depth= 2.85"

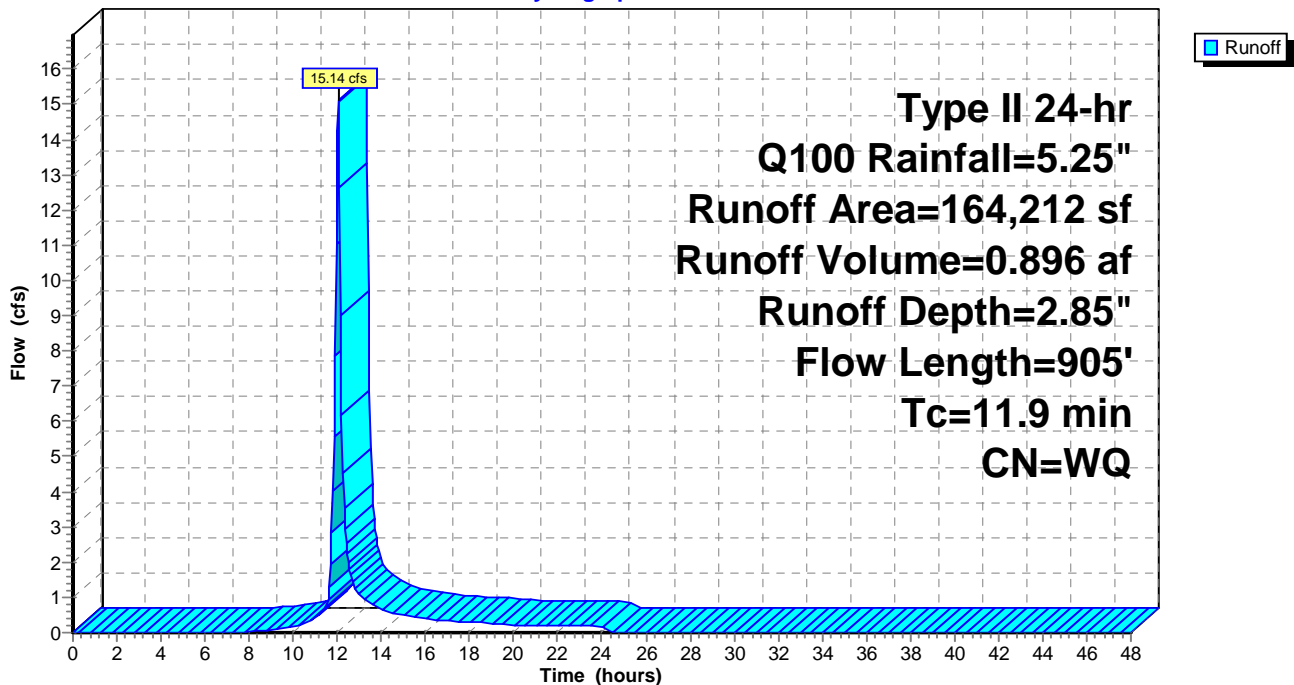
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Type II 24-hr Q100 Rainfall=5.25"

Area (sf)	CN	Description
130,258	77	Woods, Good, HSG D
24,425	80	>75% Grass cover, Good, HSG D
3,993	98	Paved parking, HSG D
5,137	39	>75% Grass cover, Good, HSG A
399	98	Paved parking, HSG A
164,212		Weighted Average
159,820		97.33% Pervious Area
4,392		2.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	650	0.1300	1.58		Lag/CN Method, Lot 7 D Soil Woods
2.9	185	0.1000	1.08		Lag/CN Method, Lot 7 D Soil Lawn
0.7	20	0.0500	0.49		Lag/CN Method, Lot 7 D Soil Impervious
0.8	30	0.0700	0.63		Lag/CN Method, Lot 7 A Soil Lawn
0.7	20	0.0500	0.49		Lag/CN Method, Lot 7 A Soil Impervious
11.9	905	Total			

Subcatchment S6B: Lots 7 House Site

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Summary for Subcatchment S6C: Lots 5, 7 & 8 Driveway

Runoff = 1.06 cfs @ 11.91 hrs, Volume= 0.058 af, Depth= 2.64"

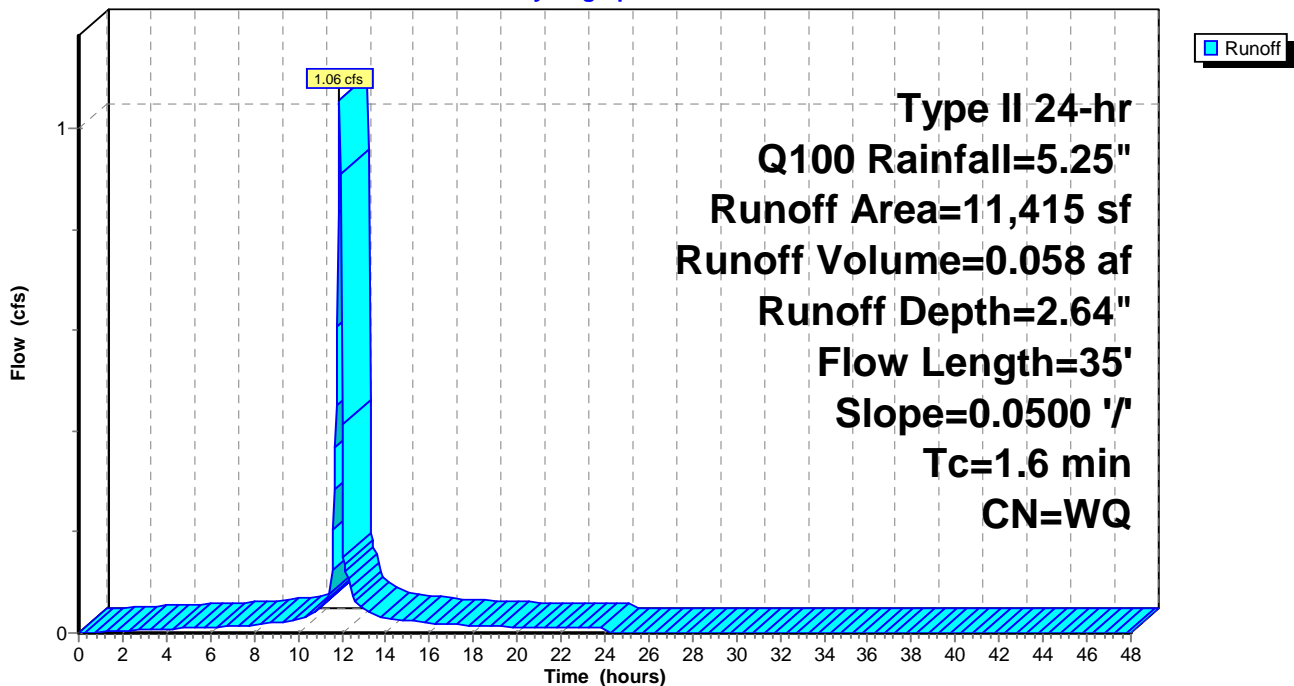
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Type II 24-hr Q100 Rainfall=5.25"

Area (sf)	CN	Description
5,696	39	>75% Grass cover, Good, HSG A
5,719	98	Paved parking, HSG A
11,415		Weighted Average
5,696		49.90% Pervious Area
5,719		50.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	15	0.0500	0.37		Lag/CN Method, Lots 5, 7 & 8 A Soil Lawn
0.9	20	0.0500	0.39		Lag/CN Method, Lots 5, 7 & 8 A Soil Impervious
1.6	35	Total			

Subcatchment S6C: Lots 5, 7 & 8 Driveway

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Summary for Subcatchment S7: Lot 8 House Site

Runoff = 3.22 cfs @ 12.04 hrs, Volume= 0.201 af, Depth= 2.28"

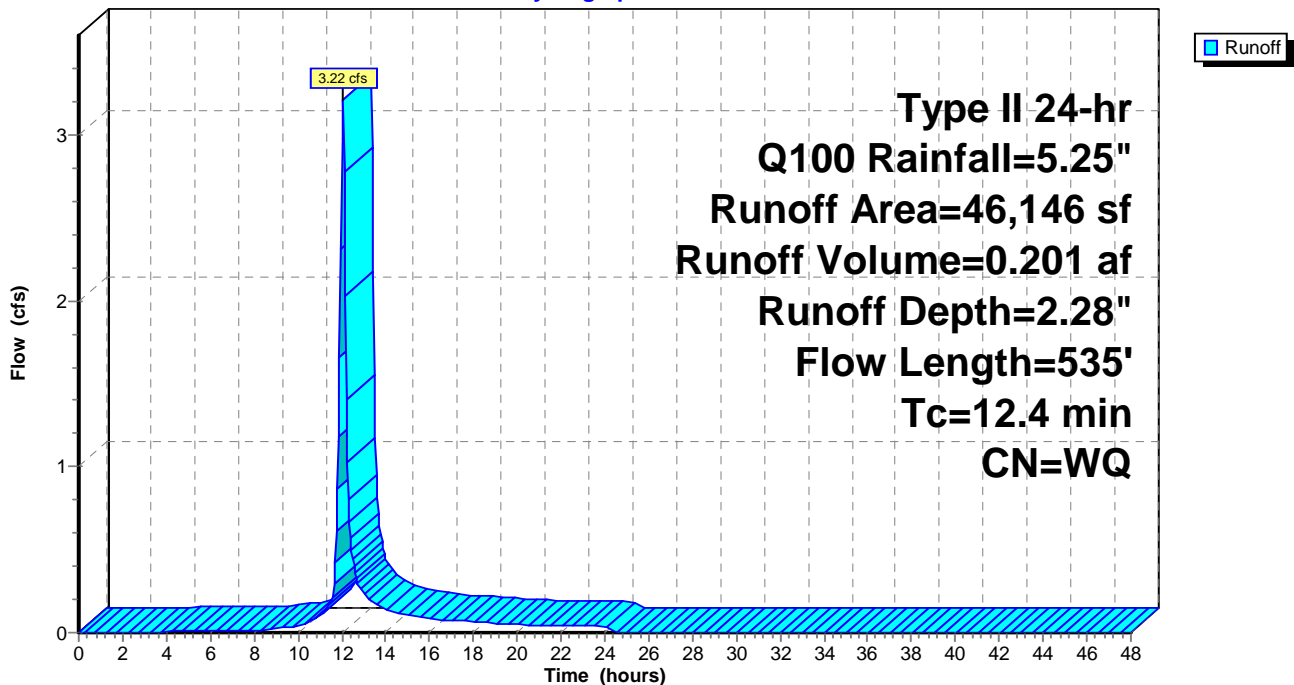
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Type II 24-hr Q100 Rainfall=5.25"

Area (sf)	CN	Description
28,658	77	Woods, Good, HSG D
346	80	>75% Grass cover, Good, HSG D
4,702	30	Woods, Good, HSG A
8,332	39	>75% Grass cover, Good, HSG A
4,108	98	Paved parking, HSG A
46,146		Weighted Average
42,038		91.10% Pervious Area
4,108		8.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	415	0.0800	0.86		Lag/CN Method, D Soil Woods
0.7	20	0.0800	0.47		Lag/CN Method, D Soils Lawn
1.1	35	0.0800	0.52		Lag/CN Method, A Soil Woods
1.7	45	0.0500	0.44		Lag/CN Method, A Soil Lawn
0.9	20	0.0500	0.37		Lag/CN Method, Lot 8 A Soil Impervious
12.4	535	Total			

Subcatchment S7: Lot 8 House Site

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Type II 24-hr Q100 Rainfall=5.25"

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Summary for Subcatchment S8: Lot 6 House Site

Runoff = 1.11 cfs @ 12.00 hrs, Volume= 0.082 af, Depth= 1.10"

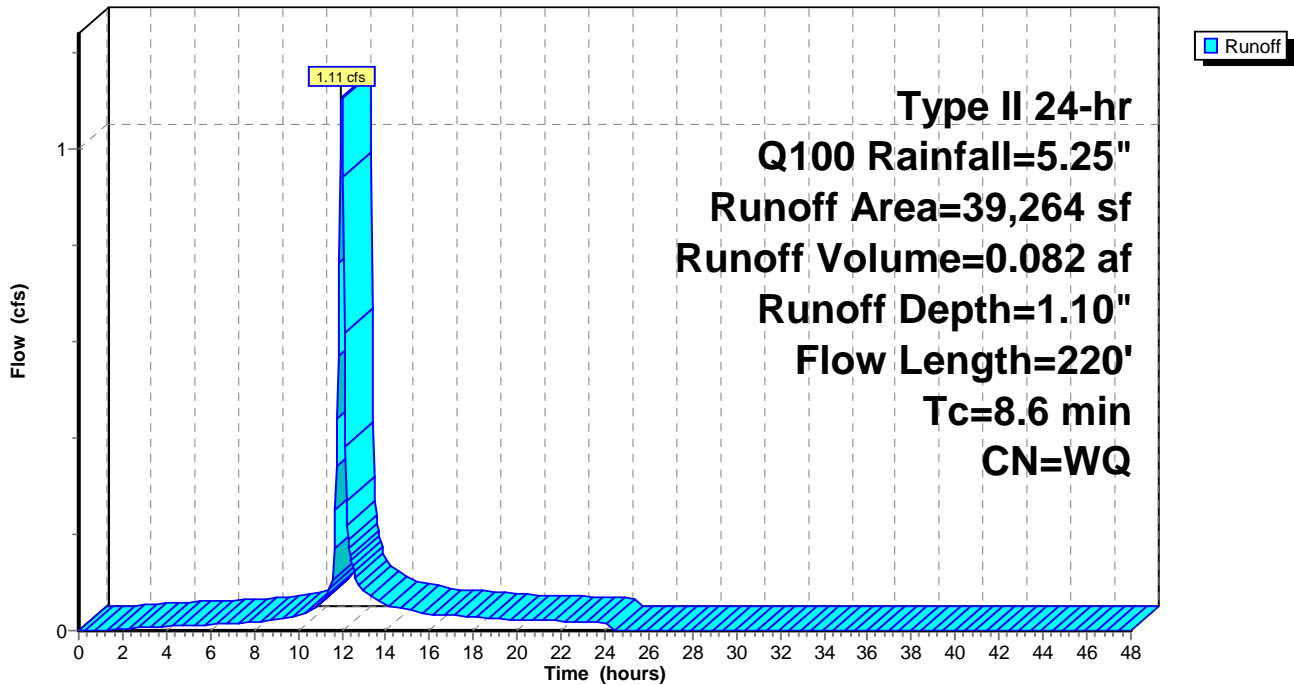
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Type II 24-hr Q100 Rainfall=5.25"

Area (sf)	CN	Description
1,434	30	Woods, Good, HSG A
30,805	39	>75% Grass cover, Good, HSG A
7,025	98	Paved parking, HSG A
39,264		Weighted Average
32,239		82.11% Pervious Area
7,025		17.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.6	40	0.1200	0.42		Lag/CN Method, Lot 6 Woods
5.6	160	0.0900	0.48		Lag/CN Method, Lot 6 Lawn
1.4	20	0.0500	0.23		Lag/CN Method, Lot 6 Impervious
8.6	220	Total			

Subcatchment S8: Lot 6 House Site

Hydrograph



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Summary for Subcatchment S9: Lot 6 East

Runoff = 0.04 cfs @ 12.19 hrs, Volume= 0.015 af, Depth= 0.18"

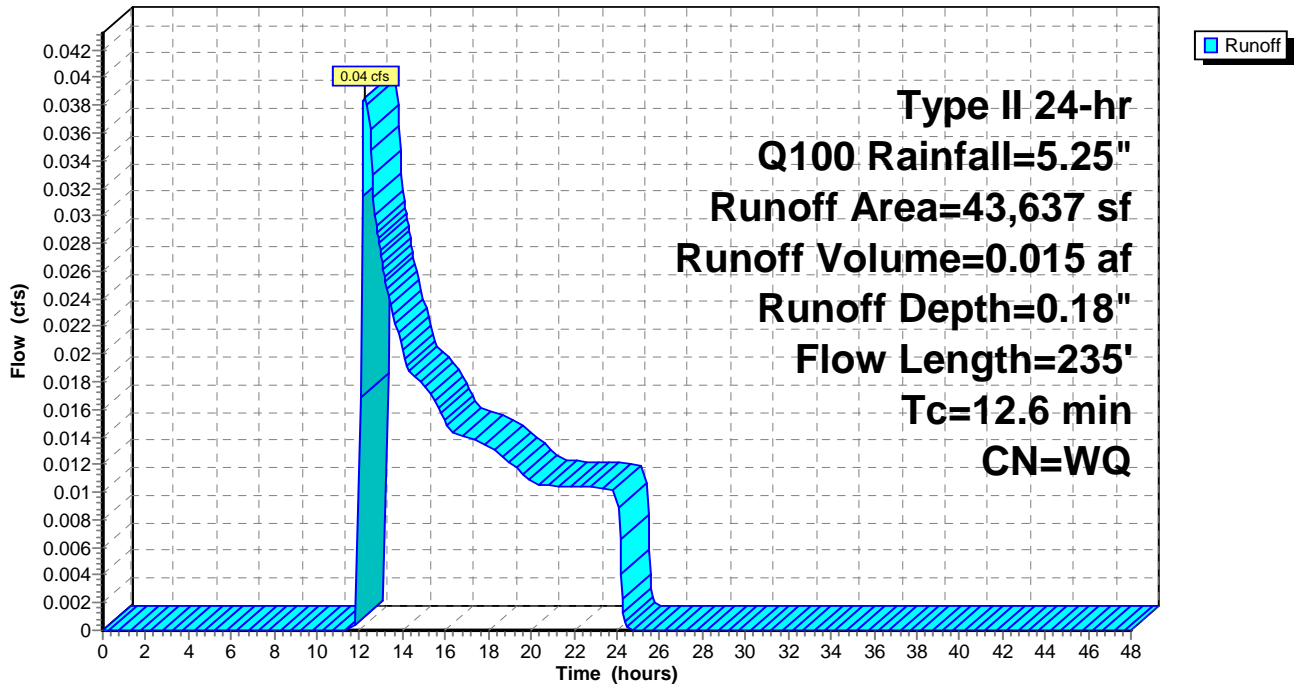
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 Type II 24-hr Q100 Rainfall=5.25"

Area (sf)	CN	Description
12,593	30	Woods, Good, HSG A
31,044	39	>75% Grass cover, Good, HSG A
43,637		Weighted Average
43,637		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	95	0.1200	0.35		Lag/CN Method, Lot 6 Woods
8.1	140	0.0700	0.29		Lag/CN Method, Lot 6 Lawn
12.6	235	Total			

Subcatchment S9: Lot 6 East

Hydrograph



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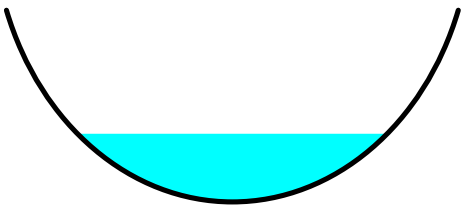
Summary for Reach R1: Lot 2 Stone Swale

Inflow Area = 1.933 ac, 6.12% Impervious, Inflow Depth = 3.07" for Q100 event
Inflow = 10.36 cfs @ 11.96 hrs, Volume= 0.494 af
Outflow = 9.93 cfs @ 11.98 hrs, Volume= 0.494 af, Atten= 4%, Lag= 1.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.16 fps, Min. Travel Time= 0.7 min
Avg. Velocity = 1.81 fps, Avg. Travel Time= 2.9 min

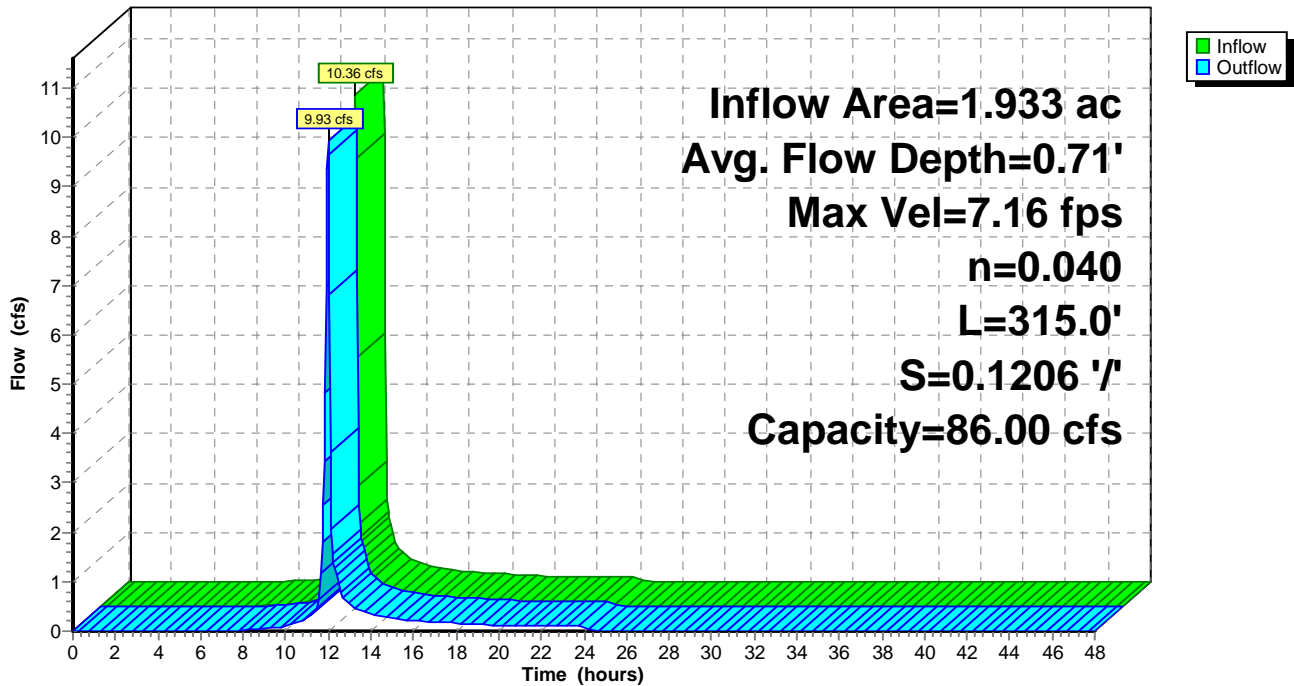
Peak Storage= 444 cf @ 11.97 hrs
Average Depth at Peak Storage= 0.71'
Bank-Full Depth= 2.00' Flow Area= 6.7 sf, Capacity= 86.00 cfs

5.00' x 2.00' deep Parabolic Channel, n= 0.040 Earth, cobble bottom, clean sides
Length= 315.0' Slope= 0.1206 '/'
Inlet Invert= 710.00', Outlet Invert= 672.00'



Reach R1: Lot 2 Stone Swale

Hydrograph



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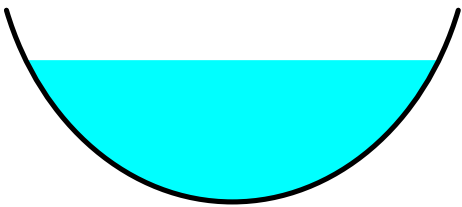
Summary for Reach R10: Lot 6 Stone Swale

Inflow Area = 11.733 ac, 5.98% Impervious, Inflow Depth = 2.45" for Q100 event
Inflow = 36.34 cfs @ 12.06 hrs, Volume= 2.395 af
Outflow = 35.91 cfs @ 12.07 hrs, Volume= 2.395 af, Atten= 1%, Lag= 0.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.54 fps, Min. Travel Time= 0.4 min
Avg. Velocity = 2.39 fps, Avg. Travel Time= 1.3 min

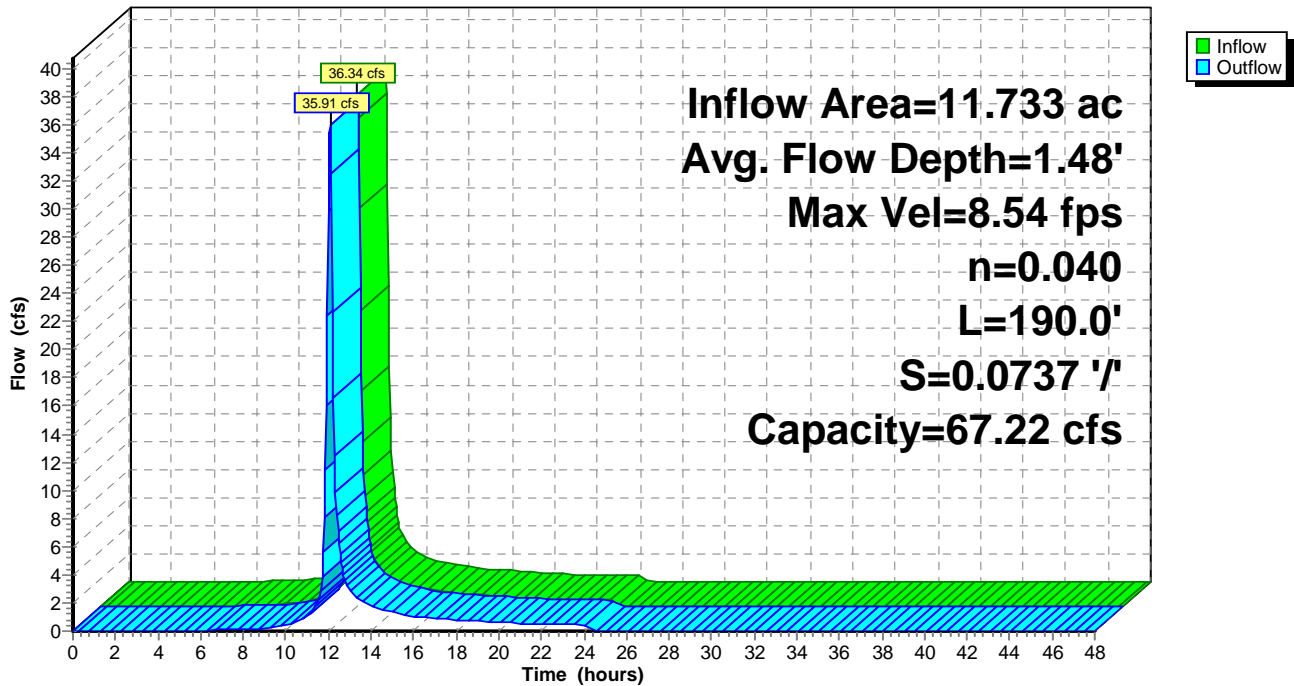
Peak Storage= 805 cf @ 12.07 hrs
Average Depth at Peak Storage= 1.48'
Bank-Full Depth= 2.00' Flow Area= 6.7 sf, Capacity= 67.22 cfs

5.00' x 2.00' deep Parabolic Channel, n= 0.040 Earth, cobble bottom, clean sides
Length= 190.0' Slope= 0.0737 '/'
Inlet Invert= 653.00', Outlet Invert= 639.00'



Reach R10: Lot 6 Stone Swale

Hydrograph



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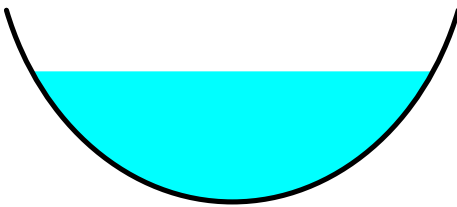
Summary for Reach R11: IB2 Pretreatment Swale

Inflow Area = 11.733 ac, 5.98% Impervious, Inflow Depth = 2.45" for Q100 event
Inflow = 35.91 cfs @ 12.07 hrs, Volume= 2.395 af
Outflow = 35.35 cfs @ 12.09 hrs, Volume= 2.395 af, Atten= 2%, Lag= 1.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Max. Velocity= 2.39 fps, Min. Travel Time= 0.7 min
Avg. Velocity = 0.66 fps, Avg. Travel Time= 2.5 min

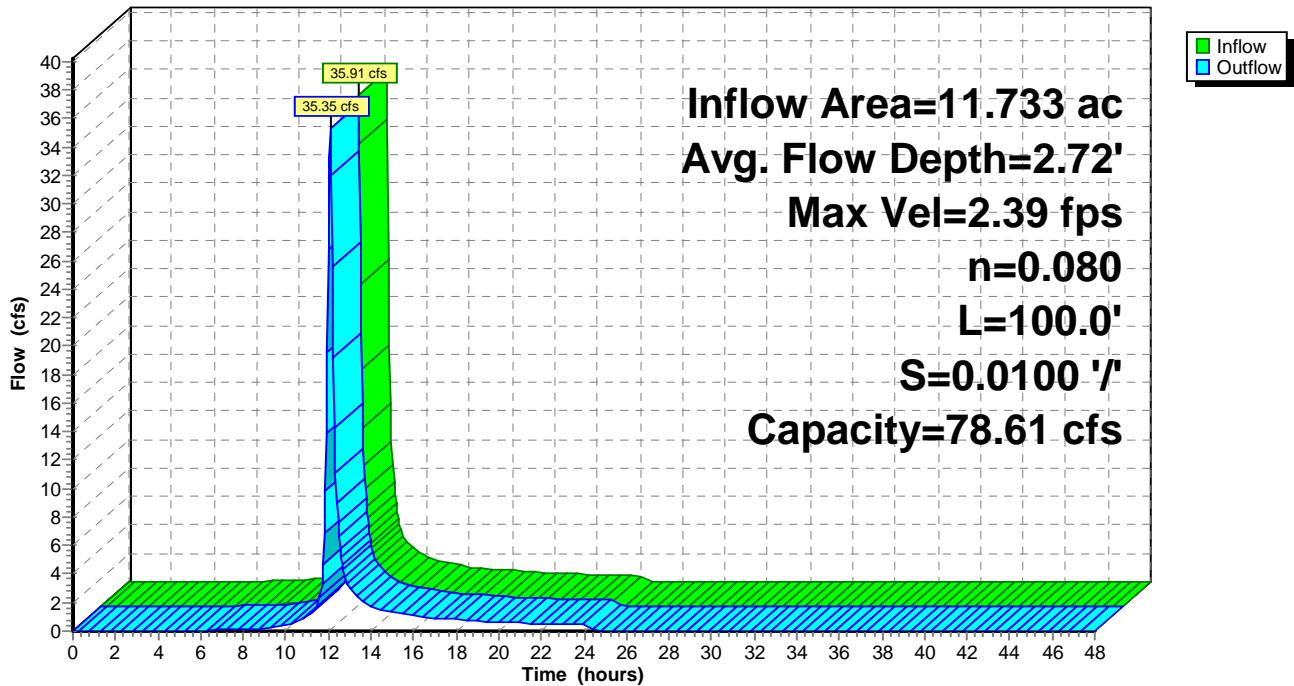
Peak Storage= 1,498 cf @ 12.08 hrs
Average Depth at Peak Storage= 2.72'
Bank-Full Depth= 4.00' Flow Area= 26.7 sf, Capacity= 78.61 cfs

10.00' x 4.00' deep Parabolic Channel, n= 0.080 Earth, long dense weeds
Length= 100.0' Slope= 0.0100 '/'
Inlet Invert= 639.00', Outlet Invert= 638.00'



Reach R11: IB2 Pretreatment Swale

Hydrograph



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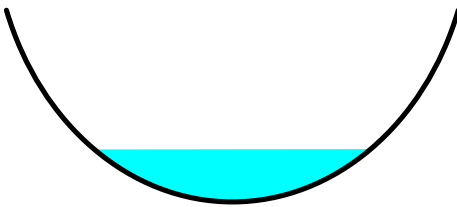
Summary for Reach R12: Lot 5 Stone Swale

Inflow Area = 1.170 ac, 9.89% Impervious, Inflow Depth = 3.06" for Q100 event
Inflow = 5.22 cfs @ 12.02 hrs, Volume= 0.298 af
Outflow = 5.11 cfs @ 12.03 hrs, Volume= 0.298 af, Atten= 2%, Lag= 1.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.41 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 1.48 fps, Avg. Travel Time= 2.1 min

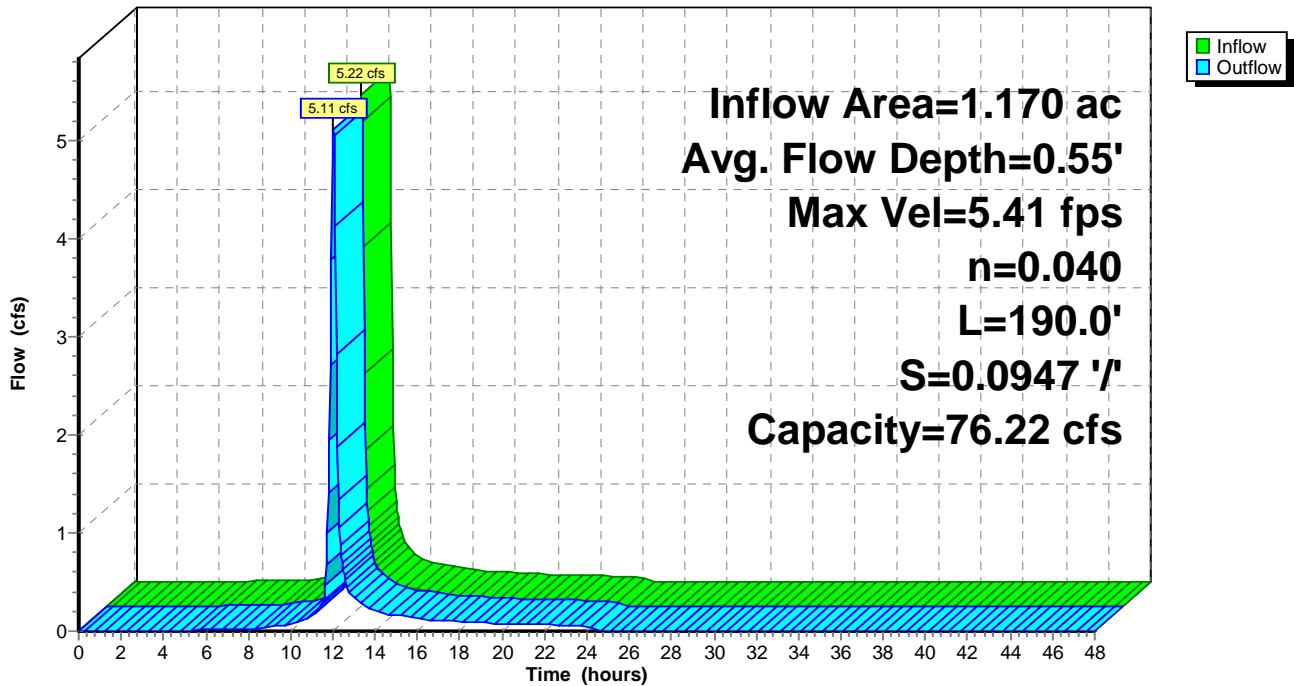
Peak Storage= 181 cf @ 12.03 hrs
Average Depth at Peak Storage= 0.55'
Bank-Full Depth= 2.00' Flow Area= 6.7 sf, Capacity= 76.22 cfs

5.00' x 2.00' deep Parabolic Channel, n= 0.040 Earth, cobble bottom, clean sides
Length= 190.0' Slope= 0.0947 '/'
Inlet Invert= 670.00', Outlet Invert= 652.00'



Reach R12: Lot 5 Stone Swale

Hydrograph



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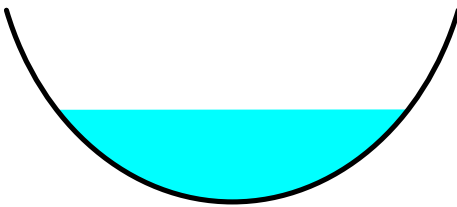
Summary for Reach R13: Lot 7 Stone Swale

Inflow Area = 3.770 ac, 2.67% Impervious, Inflow Depth = 2.85" for Q100 event
 Inflow = 15.14 cfs @ 12.04 hrs, Volume= 0.896 af
 Outflow = 14.87 cfs @ 12.05 hrs, Volume= 0.896 af, Atten= 2%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 Max. Velocity= 6.80 fps, Min. Travel Time= 0.6 min
 Avg. Velocity = 1.78 fps, Avg. Travel Time= 2.1 min

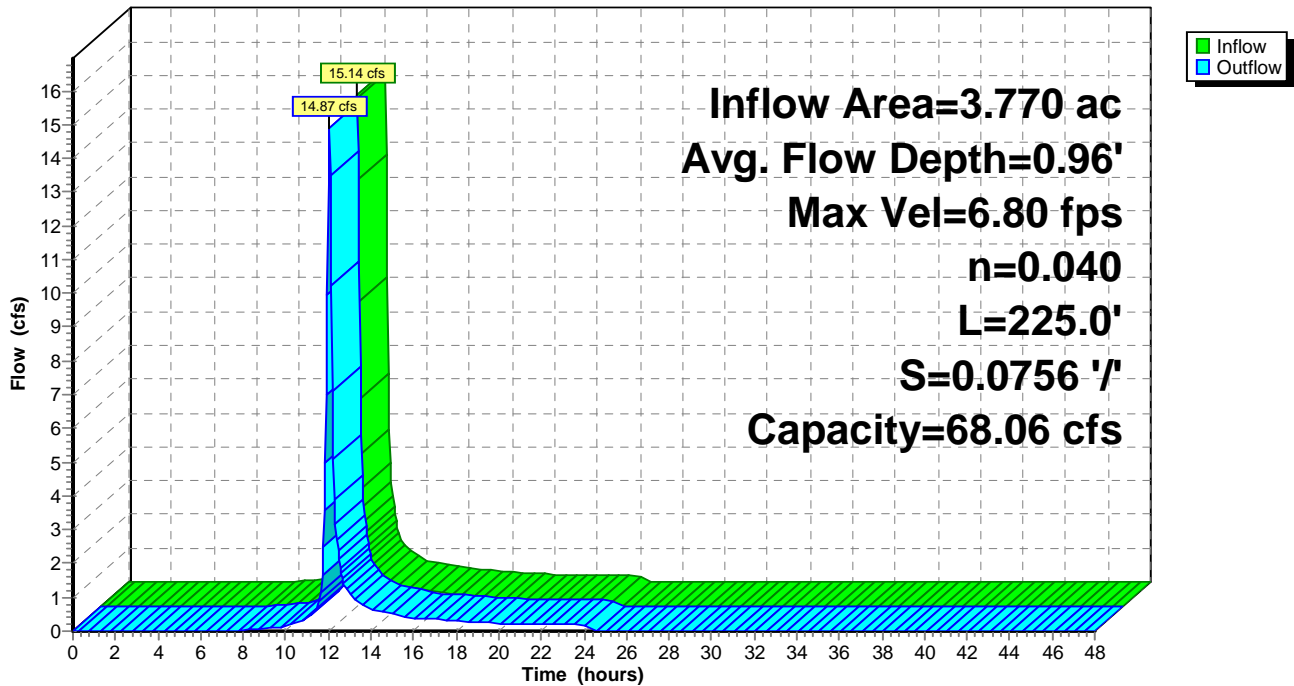
Peak Storage= 500 cf @ 12.04 hrs
 Average Depth at Peak Storage= 0.96'
 Bank-Full Depth= 2.00' Flow Area= 6.7 sf, Capacity= 68.06 cfs

5.00' x 2.00' deep Parabolic Channel, n= 0.040 Earth, cobble bottom, clean sides
 Length= 225.0' Slope= 0.0756 '/
 Inlet Invert= 685.00', Outlet Invert= 668.00'



Reach R13: Lot 7 Stone Swale

Hydrograph



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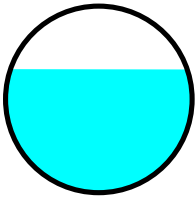
Summary for Reach R14: Lots 7-8 Driveway Culvert

Inflow Area = 3.770 ac, 2.67% Impervious, Inflow Depth = 2.85" for Q100 event
 Inflow = 14.87 cfs @ 12.05 hrs, Volume= 0.896 af
 Outflow = 14.85 cfs @ 12.05 hrs, Volume= 0.896 af, Atten= 0%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 Max. Velocity= 11.99 fps, Min. Travel Time= 0.0 min
 Avg. Velocity = 3.27 fps, Avg. Travel Time= 0.2 min

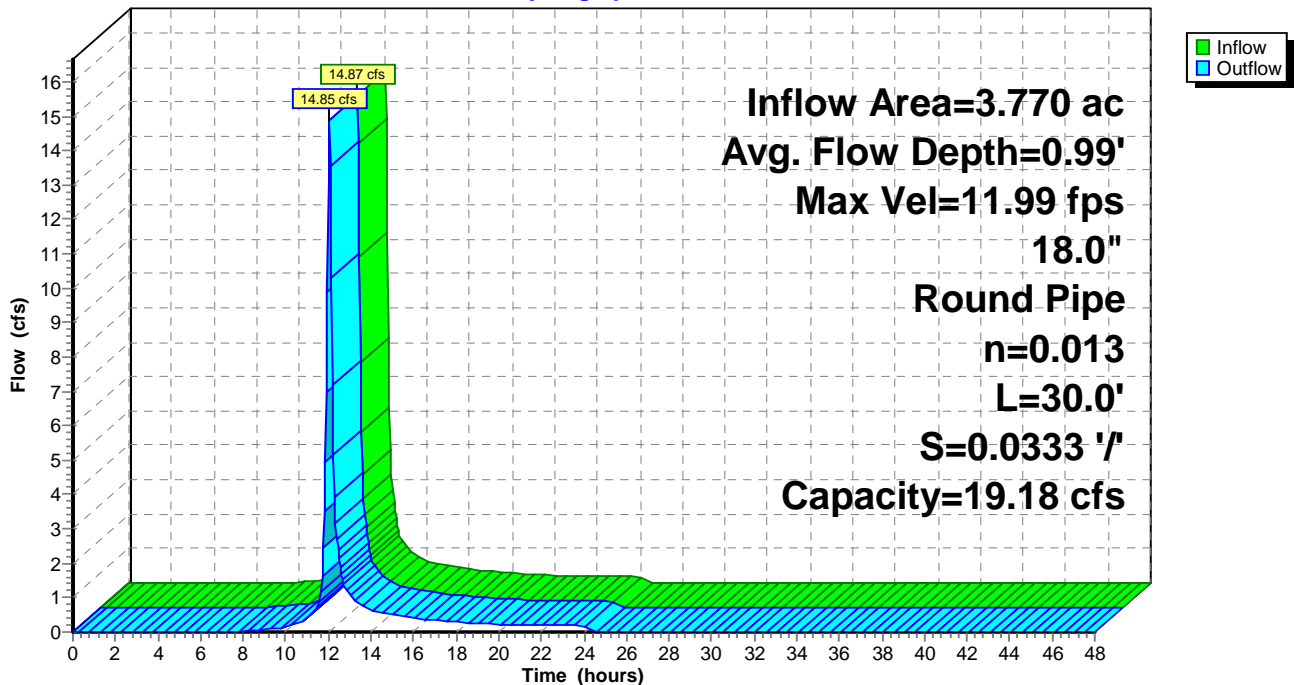
Peak Storage= 37 cf @ 12.05 hrs
 Average Depth at Peak Storage= 0.99'
 Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 19.18 cfs

18.0" Round Pipe
 n= 0.013 Corrugated PE, smooth interior
 Length= 30.0' Slope= 0.0333 '/'
 Inlet Invert= 668.00', Outlet Invert= 667.00'



Reach R14: Lots 7-8 Driveway Culvert

Hydrograph



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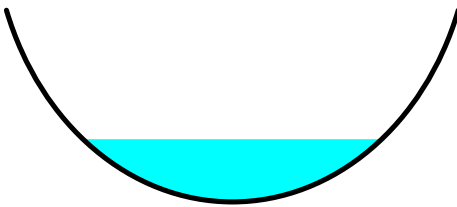
Summary for Reach R15: Lot 6 Grass Swale

Inflow Area = 1.321 ac, 17.07% Impervious, Inflow Depth = 2.35" for Q100 event
Inflow = 3.41 cfs @ 12.02 hrs, Volume= 0.259 af
Outflow = 3.38 cfs @ 12.05 hrs, Volume= 0.259 af, Atten= 1%, Lag= 1.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Max. Velocity= 2.72 fps, Min. Travel Time= 1.3 min
Avg. Velocity = 0.82 fps, Avg. Travel Time= 4.2 min

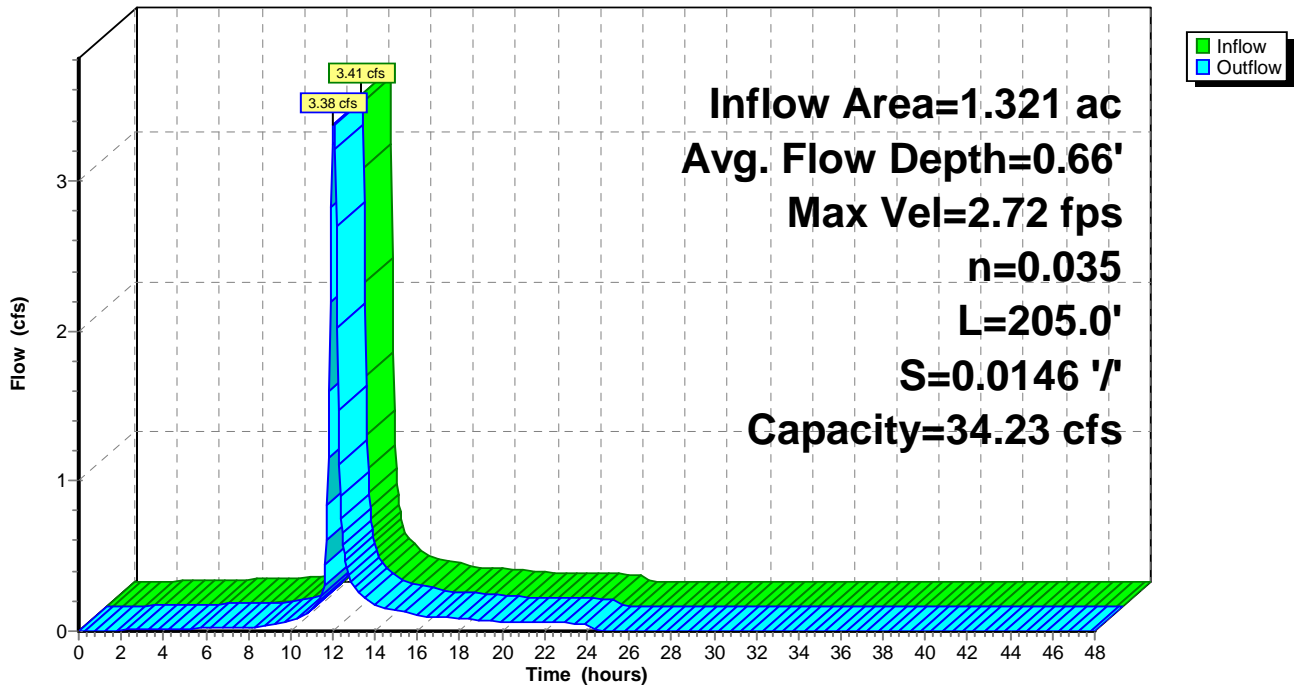
Peak Storage= 256 cf @ 12.03 hrs
Average Depth at Peak Storage= 0.66'
Bank-Full Depth= 2.00' Flow Area= 6.7 sf, Capacity= 34.23 cfs

5.00' x 2.00' deep Parabolic Channel, n= 0.035 Earth, dense weeds
Length= 205.0' Slope= 0.0146 '/
Inlet Invert= 670.00', Outlet Invert= 667.00'



Reach R15: Lot 6 Grass Swale

Hydrograph



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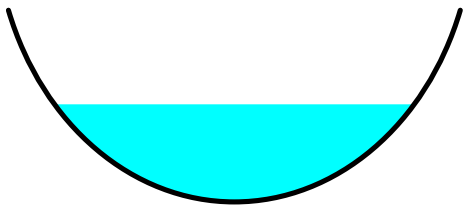
Summary for Reach R16: Lot 6 Stone Swale

Inflow Area = 5.091 ac, 6.41% Impervious, Inflow Depth = 2.72" for Q100 event
Inflow = 18.23 cfs @ 12.05 hrs, Volume= 1.155 af
Outflow = 18.04 cfs @ 12.06 hrs, Volume= 1.155 af, Atten= 1%, Lag= 0.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.50 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 2.05 fps, Avg. Travel Time= 1.1 min

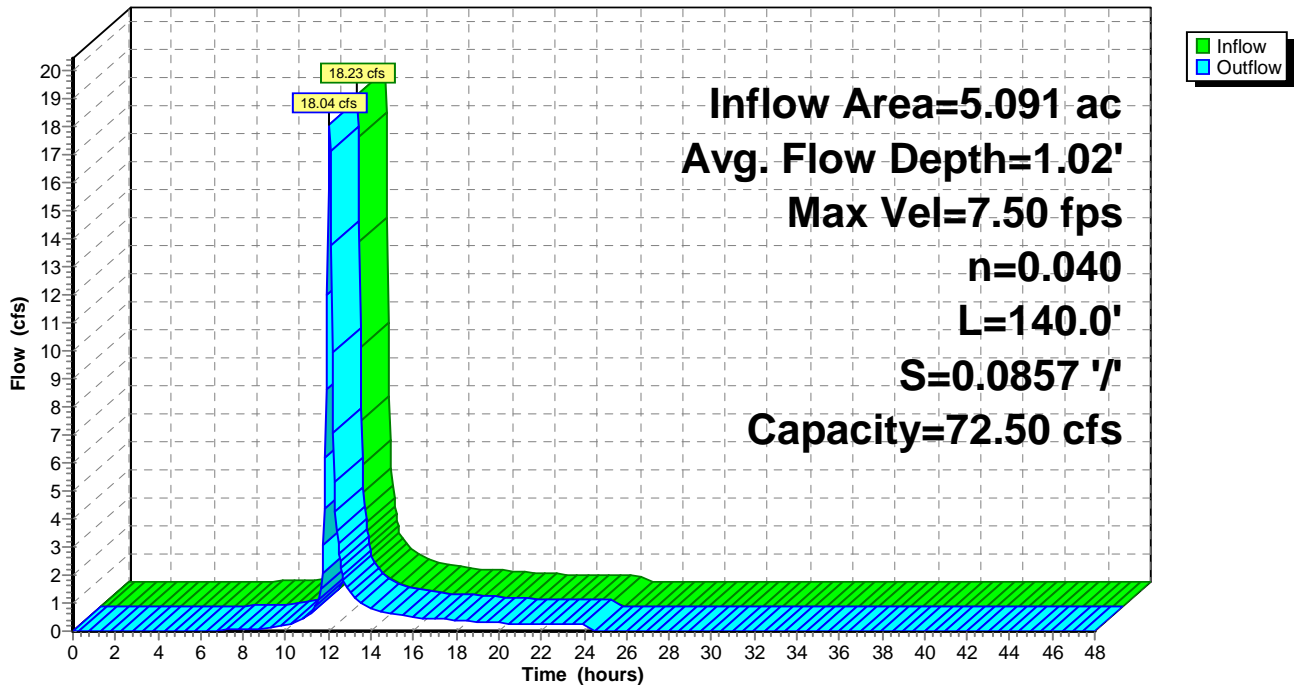
Peak Storage= 340 cf @ 12.06 hrs
Average Depth at Peak Storage= 1.02'
Bank-Full Depth= 2.00' Flow Area= 6.7 sf, Capacity= 72.50 cfs

5.00' x 2.00' deep Parabolic Channel, n= 0.040 Earth, cobble bottom, clean sides
Length= 140.0' Slope= 0.0857 '/'
Inlet Invert= 667.00', Outlet Invert= 655.00'



Reach R16: Lot 6 Stone Swale

Hydrograph



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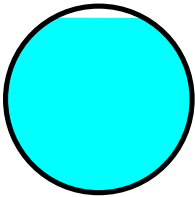
Summary for Reach R17: Lot 6 Driveway Culvert

Inflow Area = 5.091 ac, 6.41% Impervious, Inflow Depth = 2.72" for Q100 event
 Inflow = 18.04 cfs @ 12.06 hrs, Volume= 1.155 af
 Outflow = 18.01 cfs @ 12.06 hrs, Volume= 1.155 af, Atten= 0%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 Max. Velocity= 15.46 fps, Min. Travel Time= 0.0 min
 Avg. Velocity = 4.71 fps, Avg. Travel Time= 0.1 min

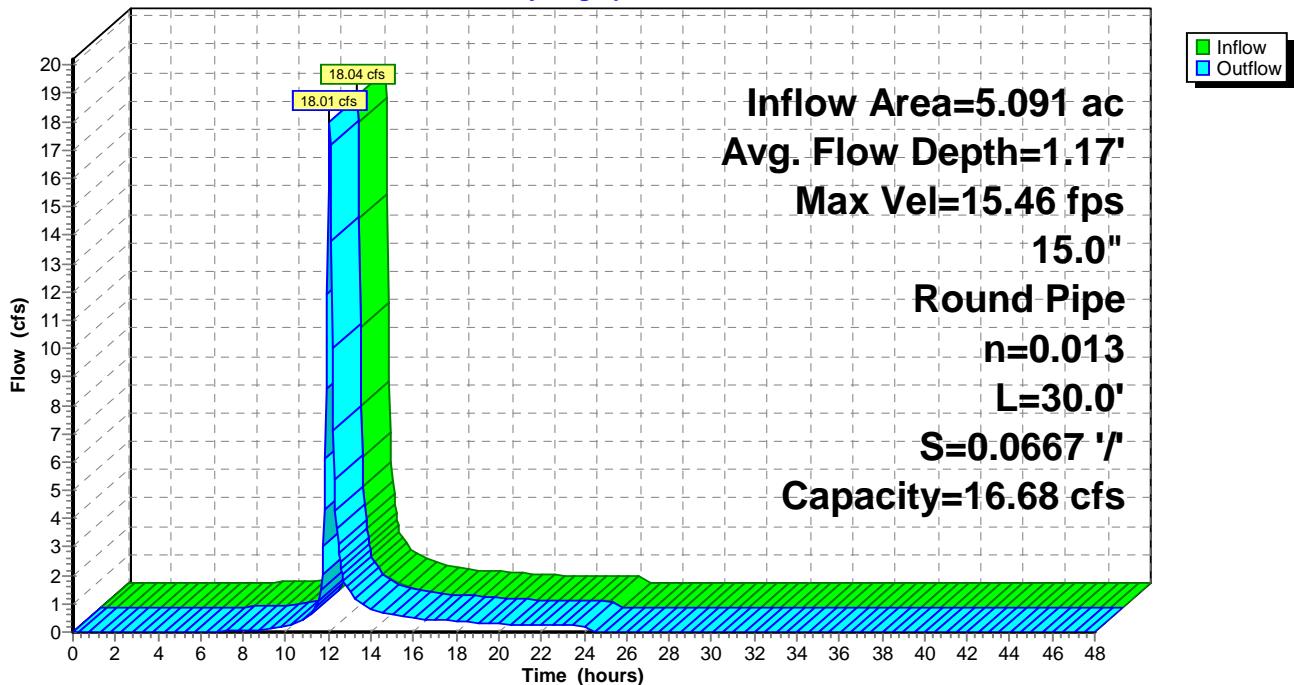
Peak Storage= 36 cf @ 12.06 hrs
 Average Depth at Peak Storage= 1.17'
 Bank-Full Depth= 1.25' Flow Area= 1.2 sf, Capacity= 16.68 cfs

15.0" Round Pipe
 n= 0.013 Corrugated PE, smooth interior
 Length= 30.0' Slope= 0.0667 '/
 Inlet Invert= 655.00', Outlet Invert= 653.00'



Reach R17: Lot 6 Driveway Culvert

Hydrograph



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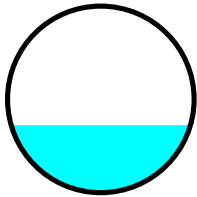
Summary for Reach R18: S/N 001

Inflow Area = 19.119 ac, 5.15% Impervious, Inflow Depth = 1.26" for Q100 event
 Inflow = 44.29 cfs @ 12.15 hrs, Volume= 2.002 af
 Outflow = 44.33 cfs @ 12.15 hrs, Volume= 2.002 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 Max. Velocity= 19.32 fps, Min. Travel Time= 0.0 min
 Avg. Velocity = 4.60 fps, Avg. Travel Time= 0.1 min

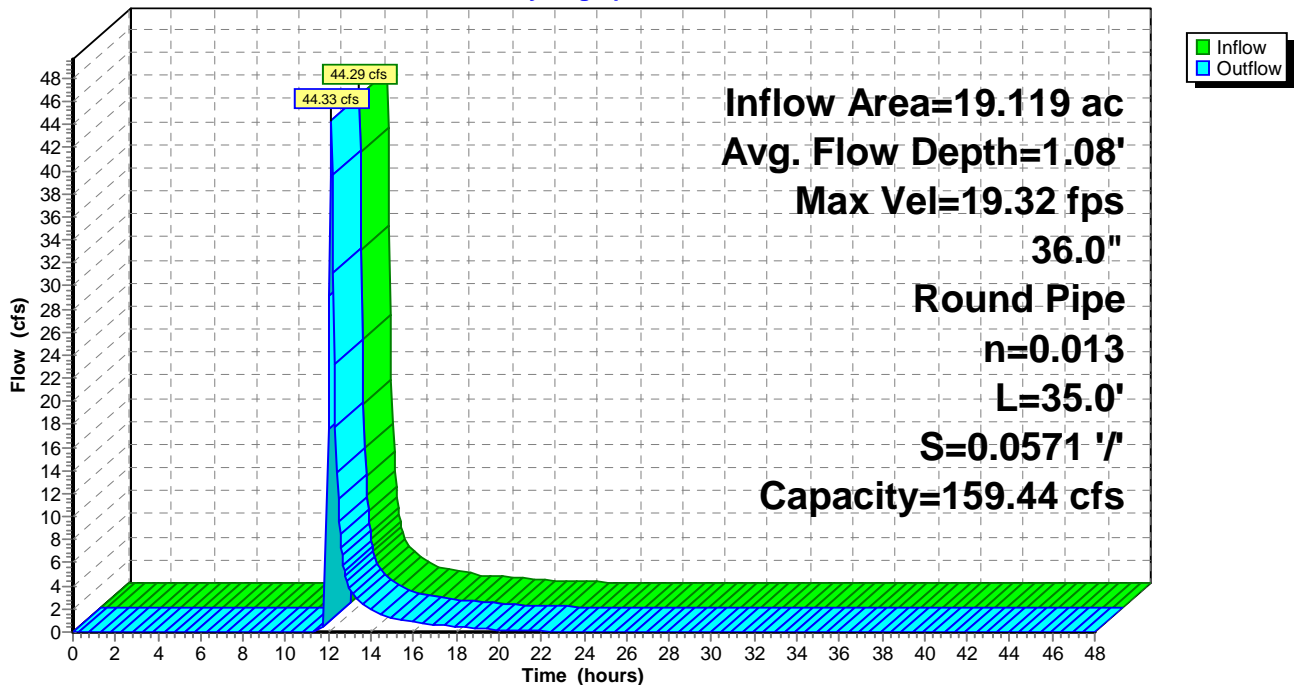
Peak Storage= 80 cf @ 12.15 hrs
 Average Depth at Peak Storage= 1.08'
 Bank-Full Depth= 3.00' Flow Area= 7.1 sf, Capacity= 159.44 cfs

36.0" Round Pipe
 n= 0.013 Corrugated PE, smooth interior
 Length= 35.0' Slope= 0.0571 '/'
 Inlet Invert= 632.00', Outlet Invert= 630.00'



Reach R18: S/N 001

Hydrograph



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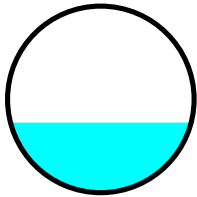
Summary for Reach R2: Lots 2-3 Driveway Culvert

Inflow Area = 1.933 ac, 6.12% Impervious, Inflow Depth = 3.07" for Q100 event
 Inflow = 9.93 cfs @ 11.98 hrs, Volume= 0.494 af
 Outflow = 9.92 cfs @ 11.98 hrs, Volume= 0.494 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 Max. Velocity= 16.30 fps, Min. Travel Time= 0.0 min
 Avg. Velocity = 4.18 fps, Avg. Travel Time= 0.1 min

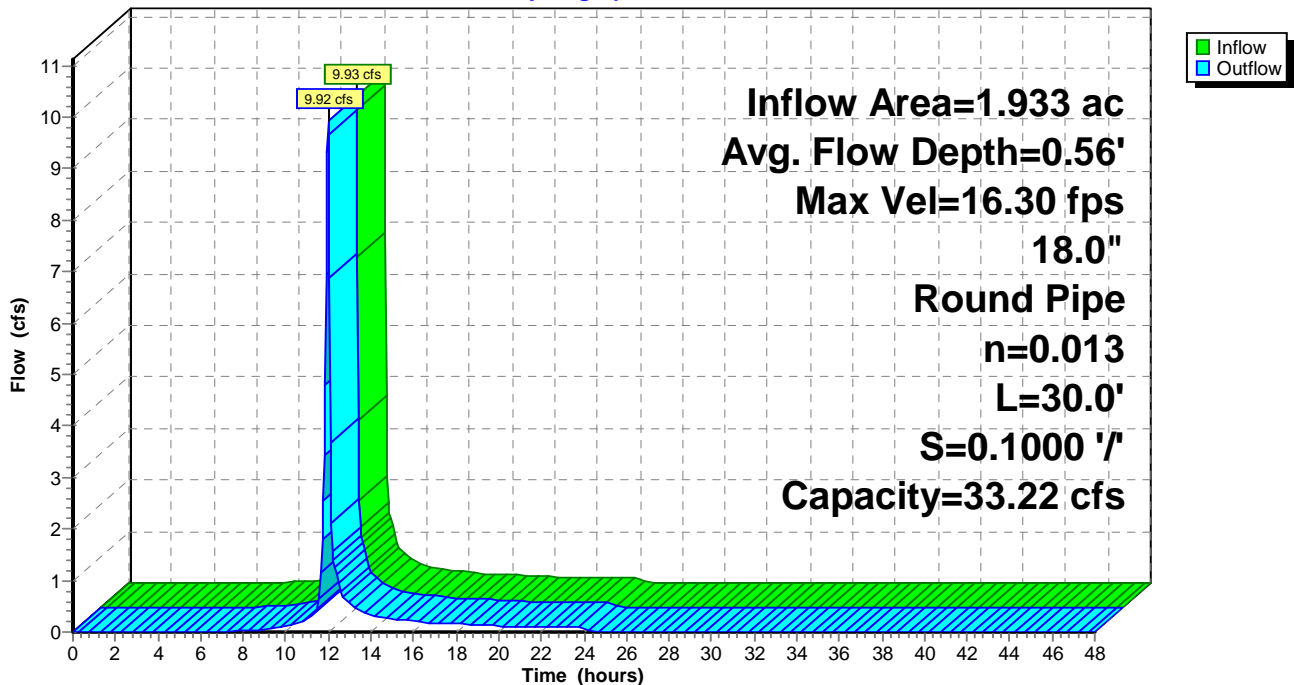
Peak Storage= 18 cf @ 11.98 hrs
 Average Depth at Peak Storage= 0.56'
 Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 33.22 cfs

18.0" Round Pipe
 n= 0.013 Corrugated PE, smooth interior
 Length= 30.0' Slope= 0.1000 '/'
 Inlet Invert= 672.00', Outlet Invert= 669.00'



Reach R2: Lots 2-3 Driveway Culvert

Hydrograph



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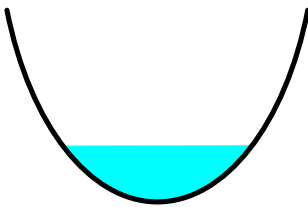
Summary for Reach R3: Observatory Rd. West Swale

Inflow Area = 3.513 ac, 8.07% Impervious, Inflow Depth = 2.81" for Q100 event
Inflow = 15.24 cfs @ 11.99 hrs, Volume= 0.822 af
Outflow = 15.01 cfs @ 12.00 hrs, Volume= 0.822 af, Atten= 2%, Lag= 0.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.47 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 2.60 fps, Avg. Travel Time= 1.2 min

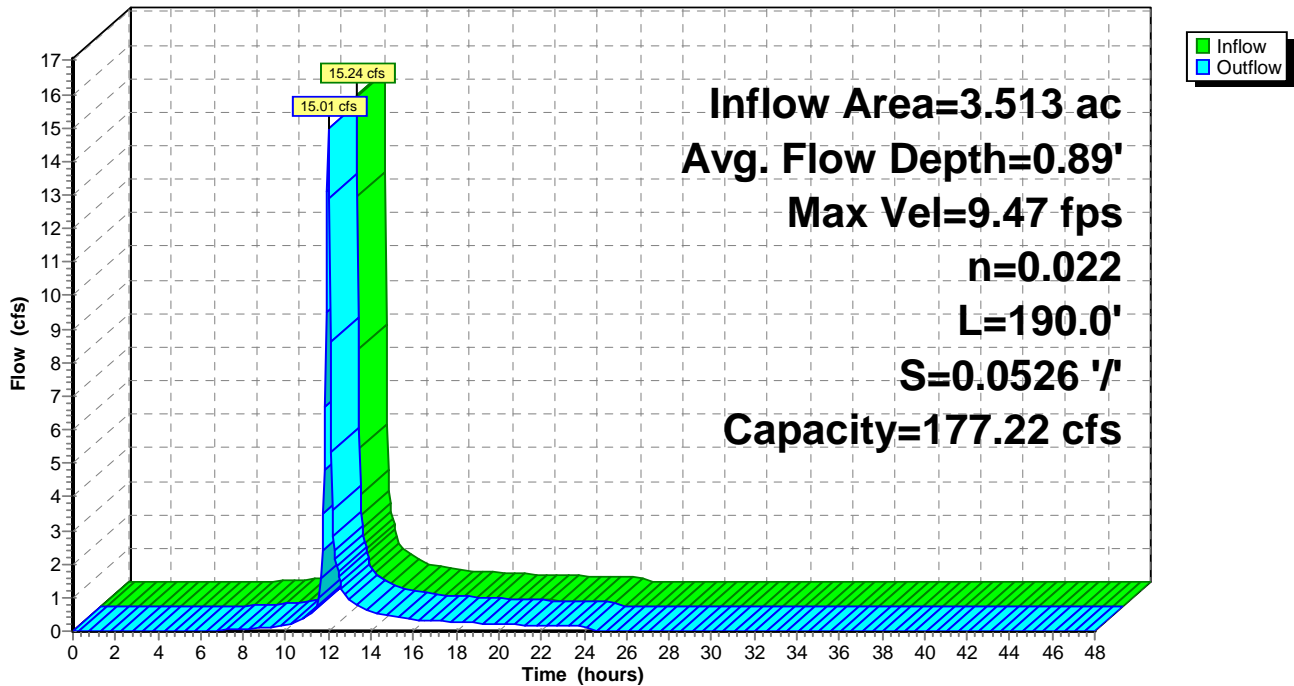
Peak Storage= 305 cf @ 11.99 hrs
Average Depth at Peak Storage= 0.89'
Bank-Full Depth= 3.00' Flow Area= 10.0 sf, Capacity= 177.22 cfs

5.00' x 3.00' deep Parabolic Channel, n= 0.022 Earth, clean & straight
Length= 190.0' Slope= 0.0526 '/
Inlet Invert= 669.00', Outlet Invert= 659.00'



Reach R3: Observatory Rd. West Swale

Hydrograph



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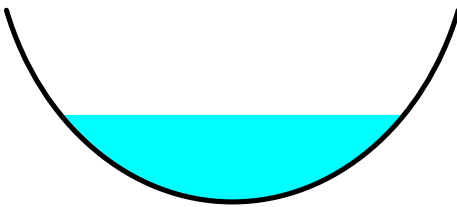
Summary for Reach R4: IB1 Pretreatment Swale

Inflow Area = 3.513 ac, 8.07% Impervious, Inflow Depth = 2.81" for Q100 event
Inflow = 15.01 cfs @ 12.00 hrs, Volume= 0.822 af
Outflow = 14.32 cfs @ 12.03 hrs, Volume= 0.822 af, Atten= 5%, Lag= 1.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Max. Velocity= 1.81 fps, Min. Travel Time= 1.0 min
Avg. Velocity = 0.47 fps, Avg. Travel Time= 3.9 min

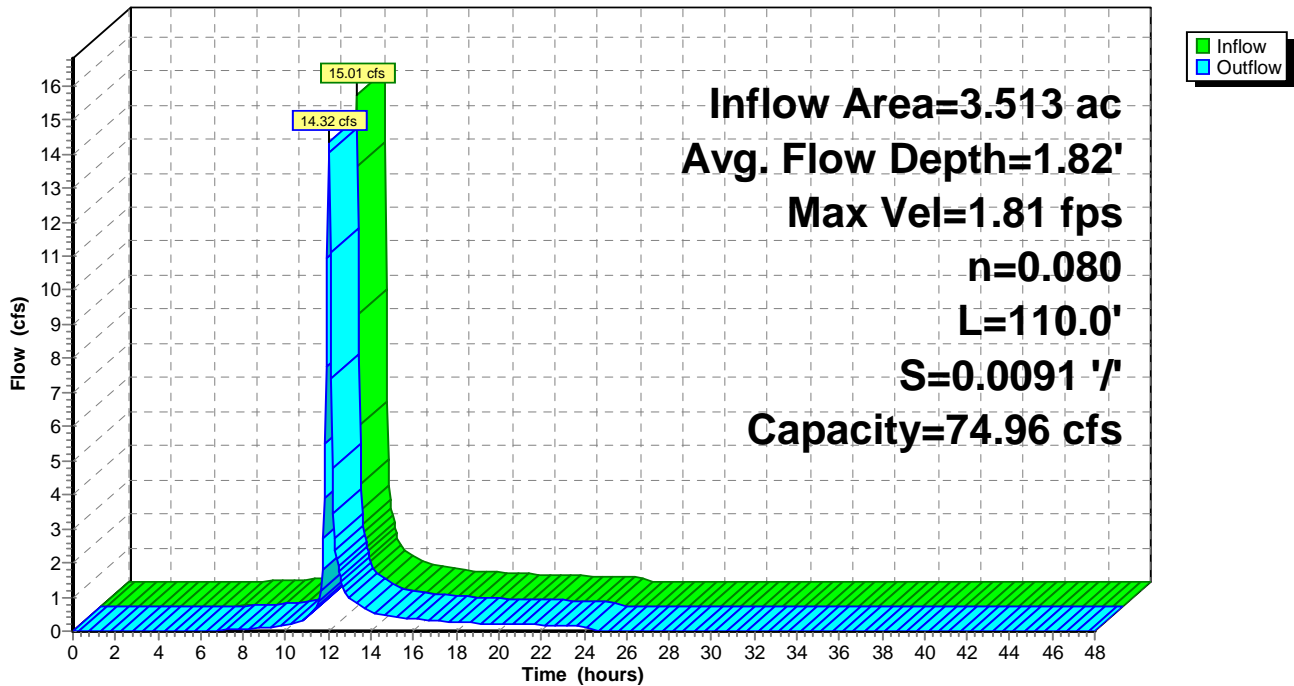
Peak Storage= 897 cf @ 12.01 hrs
Average Depth at Peak Storage= 1.82'
Bank-Full Depth= 4.00' Flow Area= 26.7 sf, Capacity= 74.96 cfs

10.00' x 4.00' deep Parabolic Channel, n= 0.080 Earth, long dense weeds
Length= 110.0' Slope= 0.0091 '/'
Inlet Invert= 659.00', Outlet Invert= 658.00'



Reach R4: IB1 Pretreatment Swale

Hydrograph



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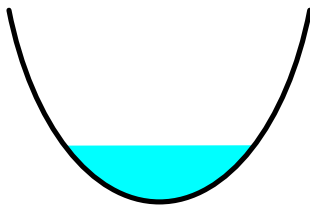
Summary for Reach R5: Observatory Rd. Middle Swale

Inflow Area = 5.558 ac, 5.10% Impervious, Inflow Depth = 1.05" for Q100 event
Inflow = 13.28 cfs @ 12.10 hrs, Volume= 0.485 af
Outflow = 12.80 cfs @ 12.12 hrs, Volume= 0.485 af, Atten= 4%, Lag= 1.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.74 fps, Min. Travel Time= 0.7 min
Avg. Velocity = 2.19 fps, Avg. Travel Time= 2.9 min

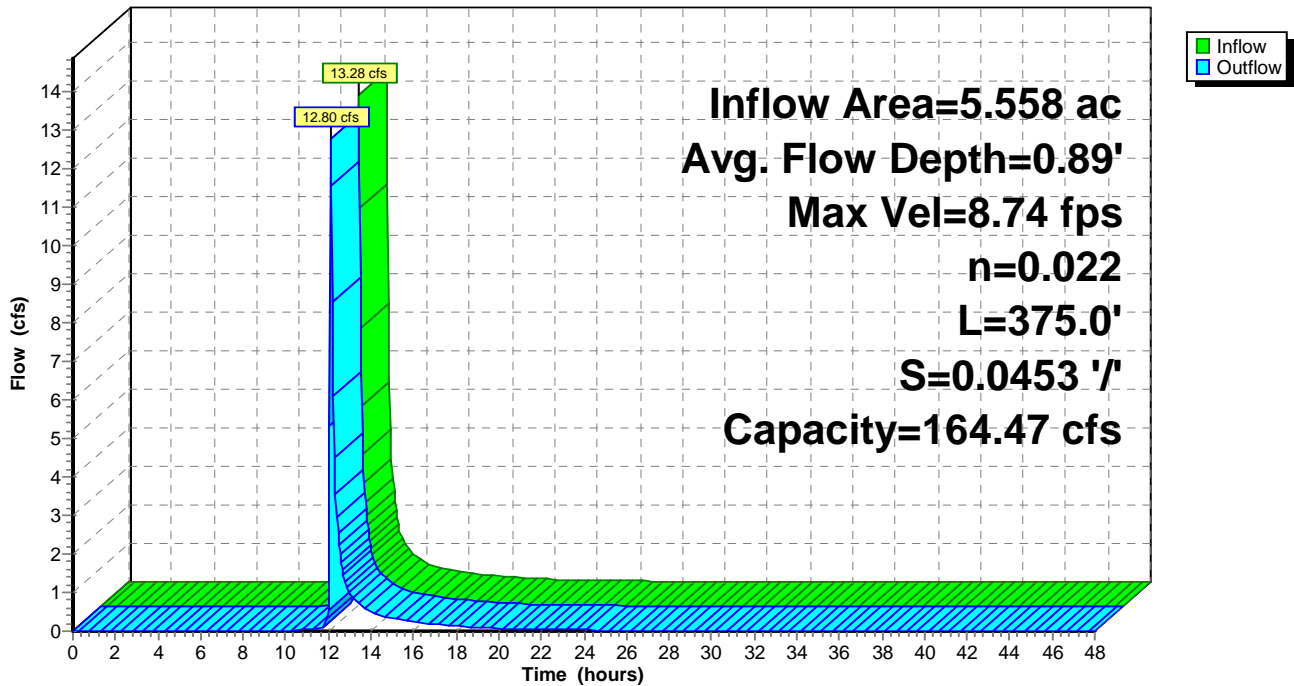
Peak Storage= 600 cf @ 12.11 hrs
Average Depth at Peak Storage= 0.89'
Bank-Full Depth= 3.00' Flow Area= 10.0 sf, Capacity= 164.47 cfs

5.00' x 3.00' deep Parabolic Channel, n= 0.022 Earth, clean & straight
Length= 375.0' Slope= 0.0453 '/'
Inlet Invert= 658.00', Outlet Invert= 641.00'



Reach R5: Observatory Rd. Middle Swale

Hydrograph



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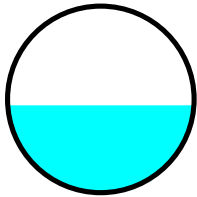
Summary for Reach R6: Lots 4-8 Driveway Culvert

Inflow Area = 5.558 ac, 5.10% Impervious, Inflow Depth = 1.05" for Q100 event
 Inflow = 12.80 cfs @ 12.12 hrs, Volume= 0.485 af
 Outflow = 12.74 cfs @ 12.12 hrs, Volume= 0.485 af, Atten= 0%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 Max. Velocity= 15.59 fps, Min. Travel Time= 0.0 min
 Avg. Velocity = 3.92 fps, Avg. Travel Time= 0.2 min

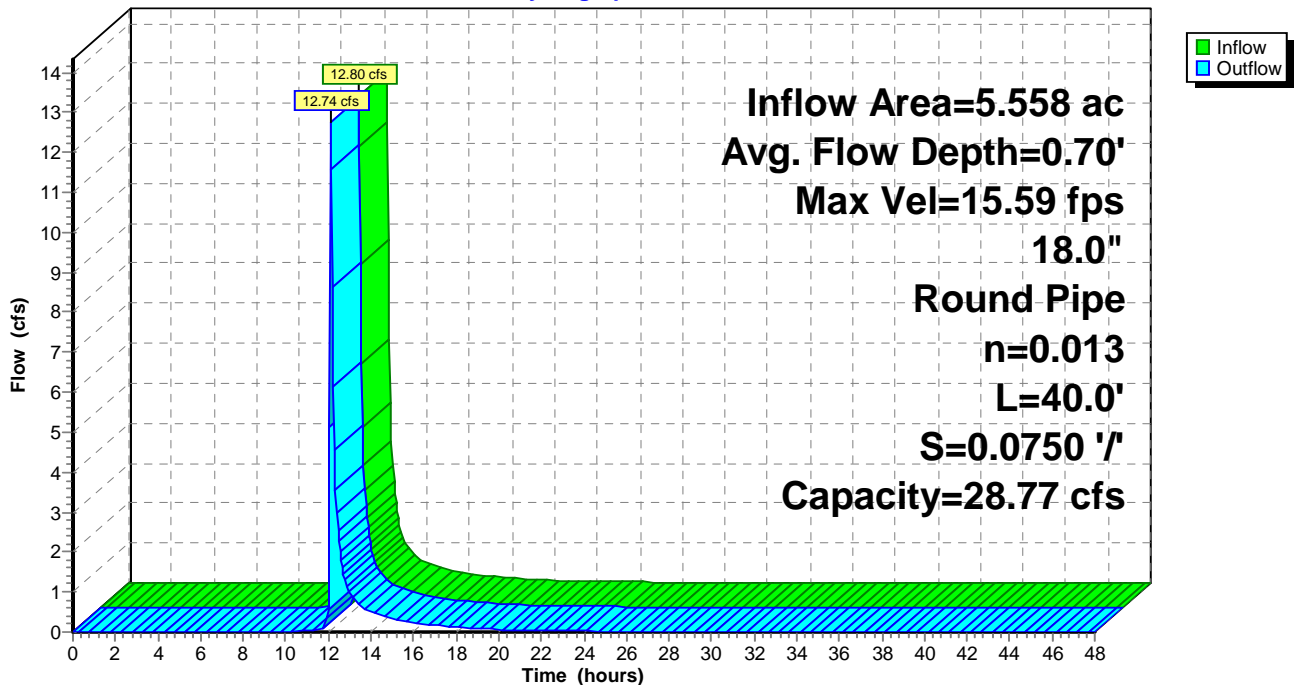
Peak Storage= 33 cf @ 12.12 hrs
 Average Depth at Peak Storage= 0.70'
 Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 28.77 cfs

18.0" Round Pipe
 n= 0.013 Corrugated PE, smooth interior
 Length= 40.0' Slope= 0.0750 '/'
 Inlet Invert= 641.00', Outlet Invert= 638.00'



Reach R6: Lots 4-8 Driveway Culvert

Hydrograph



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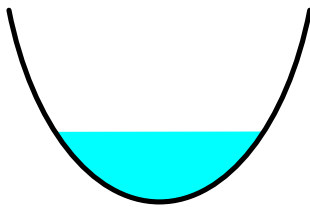
Summary for Reach R7: Observatory Rd. East Swale

Inflow Area = 5.558 ac, 5.10% Impervious, Inflow Depth = 1.05" for Q100 event
Inflow = 12.74 cfs @ 12.12 hrs, Volume= 0.485 af
Outflow = 11.57 cfs @ 12.17 hrs, Volume= 0.485 af, Atten= 9%, Lag= 2.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.58 fps, Min. Travel Time= 1.2 min
Avg. Velocity = 1.42 fps, Avg. Travel Time= 4.9 min

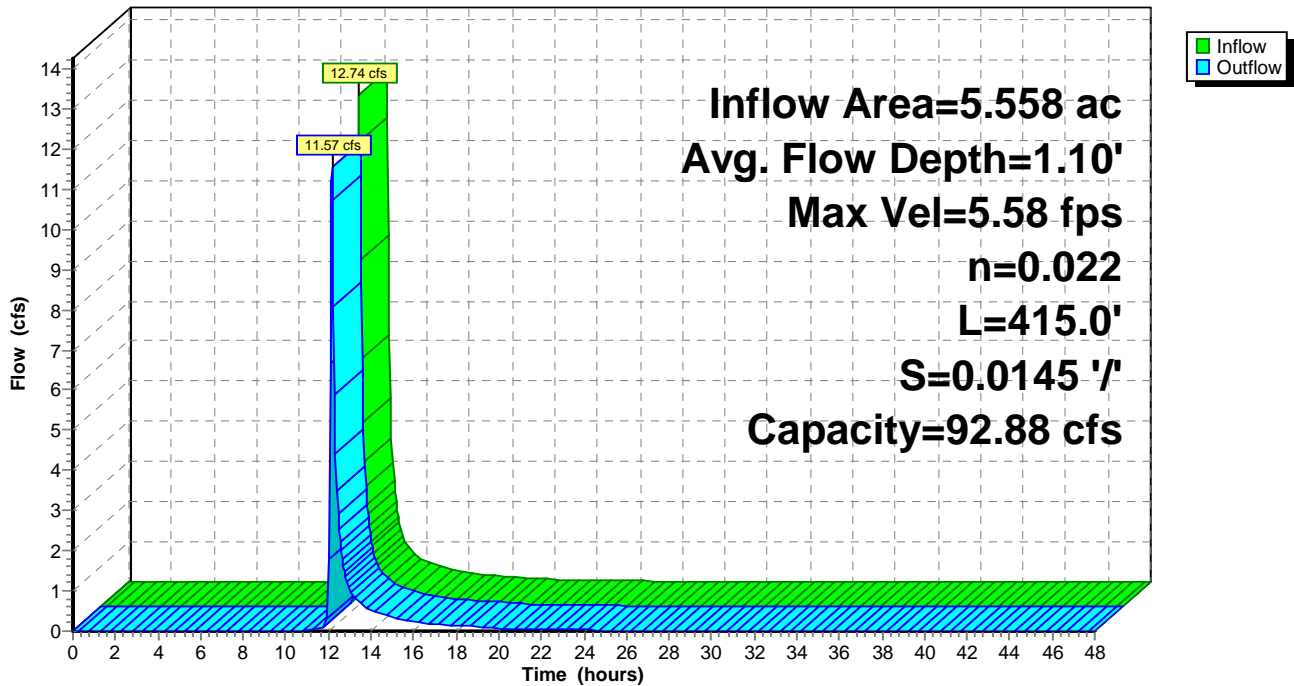
Peak Storage= 918 cf @ 12.15 hrs
Average Depth at Peak Storage= 1.10'
Bank-Full Depth= 3.00' Flow Area= 10.0 sf, Capacity= 92.88 cfs

5.00' x 3.00' deep Parabolic Channel, n= 0.022 Earth, clean & straight
Length= 415.0' Slope= 0.0145 '/'
Inlet Invert= 638.00', Outlet Invert= 632.00'



Reach R7: Observatory Rd. East Swale

Hydrograph



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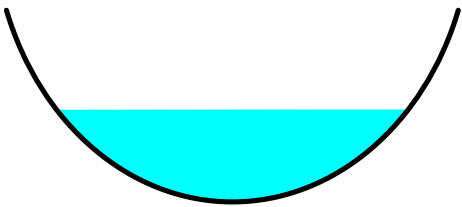
Summary for Reach R8: Lot 4 Stone Swale

Inflow Area = 4.571 ac, 2.15% Impervious, Inflow Depth = 2.26" for Q100 event
 Inflow = 12.94 cfs @ 12.07 hrs, Volume= 0.860 af
 Outflow = 12.81 cfs @ 12.09 hrs, Volume= 0.860 af, Atten= 1%, Lag= 0.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 Max. Velocity= 5.80 fps, Min. Travel Time= 0.4 min
 Avg. Velocity = 1.57 fps, Avg. Travel Time= 1.5 min

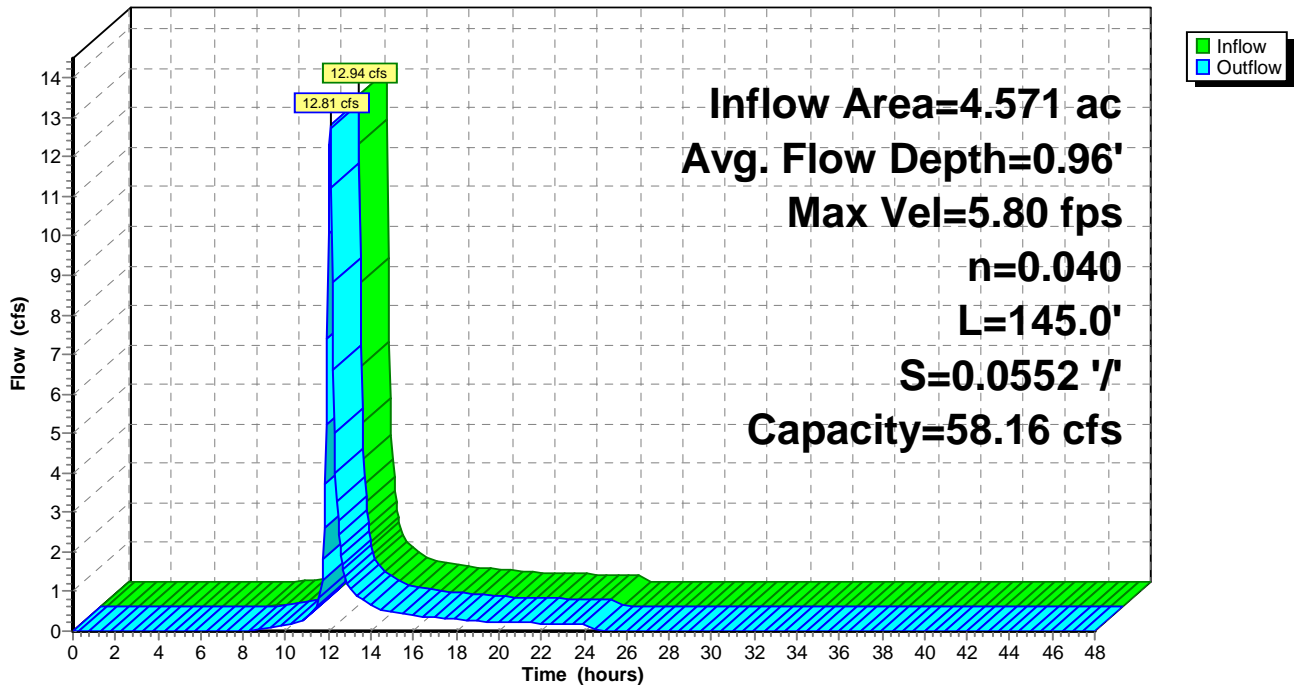
Peak Storage= 322 cf @ 12.08 hrs
 Average Depth at Peak Storage= 0.96'
 Bank-Full Depth= 2.00' Flow Area= 6.7 sf, Capacity= 58.16 cfs

5.00' x 2.00' deep Parabolic Channel, n= 0.040 Earth, cobble bottom, clean sides
 Length= 145.0' Slope= 0.0552 '/
 Inlet Invert= 660.00', Outlet Invert= 652.00'



Reach R8: Lot 4 Stone Swale

Hydrograph



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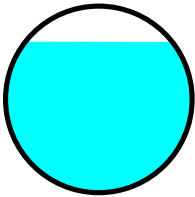
Summary for Reach R9: Lots 5-8 Driveway Culvert

Inflow Area = 5.741 ac, 3.73% Impervious, Inflow Depth = 2.42" for Q100 event
 Inflow = 17.50 cfs @ 12.07 hrs, Volume= 1.158 af
 Outflow = 17.47 cfs @ 12.07 hrs, Volume= 1.158 af, Atten= 0%, Lag= 0.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
 Max. Velocity= 16.43 fps, Min. Travel Time= 0.0 min
 Avg. Velocity = 4.88 fps, Avg. Travel Time= 0.1 min

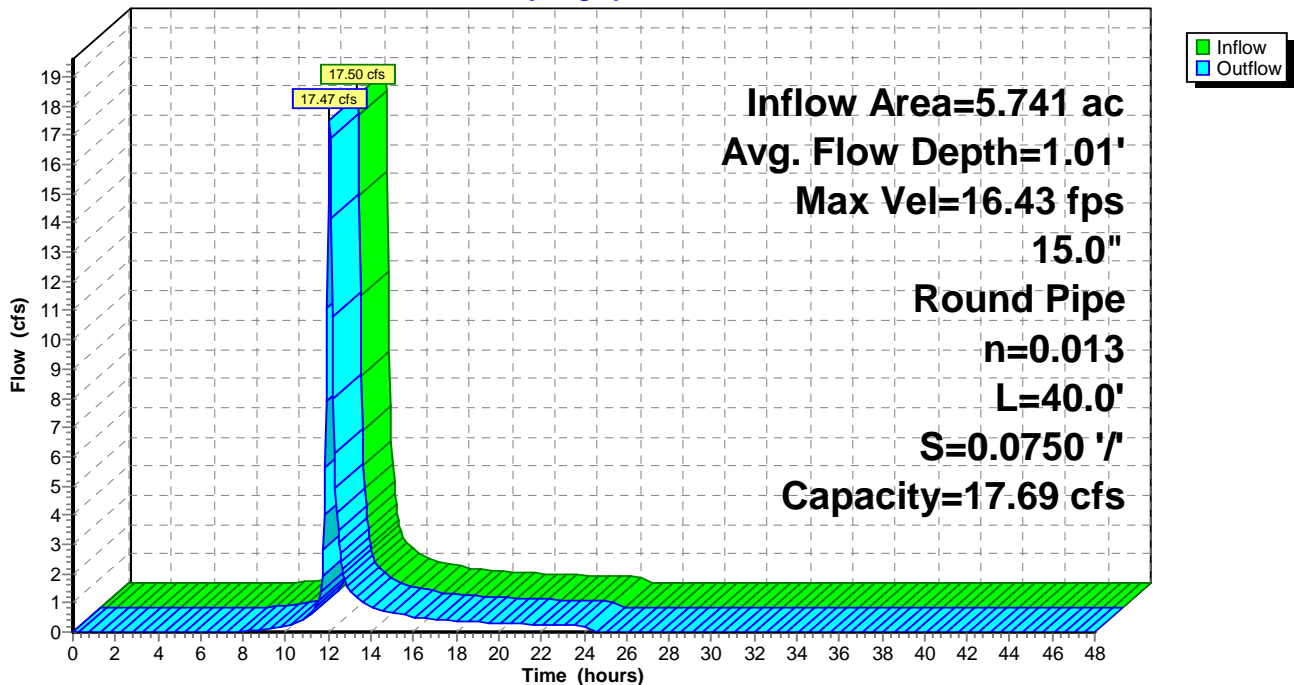
Peak Storage= 43 cf @ 12.07 hrs
 Average Depth at Peak Storage= 1.01'
 Bank-Full Depth= 1.25' Flow Area= 1.2 sf, Capacity= 17.69 cfs

15.0" Round Pipe
 n= 0.013 Corrugated PE, smooth interior
 Length= 40.0' Slope= 0.0750 '/'
 Inlet Invert= 652.00', Outlet Invert= 649.00'



Reach R9: Lots 5-8 Driveway Culvert

Hydrograph



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Type II 24-hr Q100 Rainfall=5.25"

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Summary for Pond IB1: Infiltration Basin 1

Inflow Area = 3.513 ac, 8.07% Impervious, Inflow Depth = 2.81" for Q100 event
 Inflow = 14.32 cfs @ 12.03 hrs, Volume= 0.822 af
 Outflow = 12.43 cfs @ 12.10 hrs, Volume= 0.813 af, Atten= 13%, Lag= 4.3 min
 Discarded = 0.19 cfs @ 12.10 hrs, Volume= 0.426 af
 Primary = 12.24 cfs @ 12.10 hrs, Volume= 0.387 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Peak Elev= 661.95' @ 12.10 hrs Surf.Area= 3,836 sf Storage= 11,793 cf

Plug-Flow detention time= 364.5 min calculated for 0.812 af (99% of inflow)
 Center-of-Mass det. time= 358.9 min (1,176.9 - 817.9)

Volume	Invert	Avail.Storage	Storage Description
#1	658.00'	16,081 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
658.00	2,197	0	0
659.00	2,575	2,386	2,386
660.00	2,977	2,776	5,162
661.00	3,405	3,191	8,353
661.50	3,629	1,759	10,112
662.00	3,859	1,872	11,984
663.00	4,336	4,098	16,081

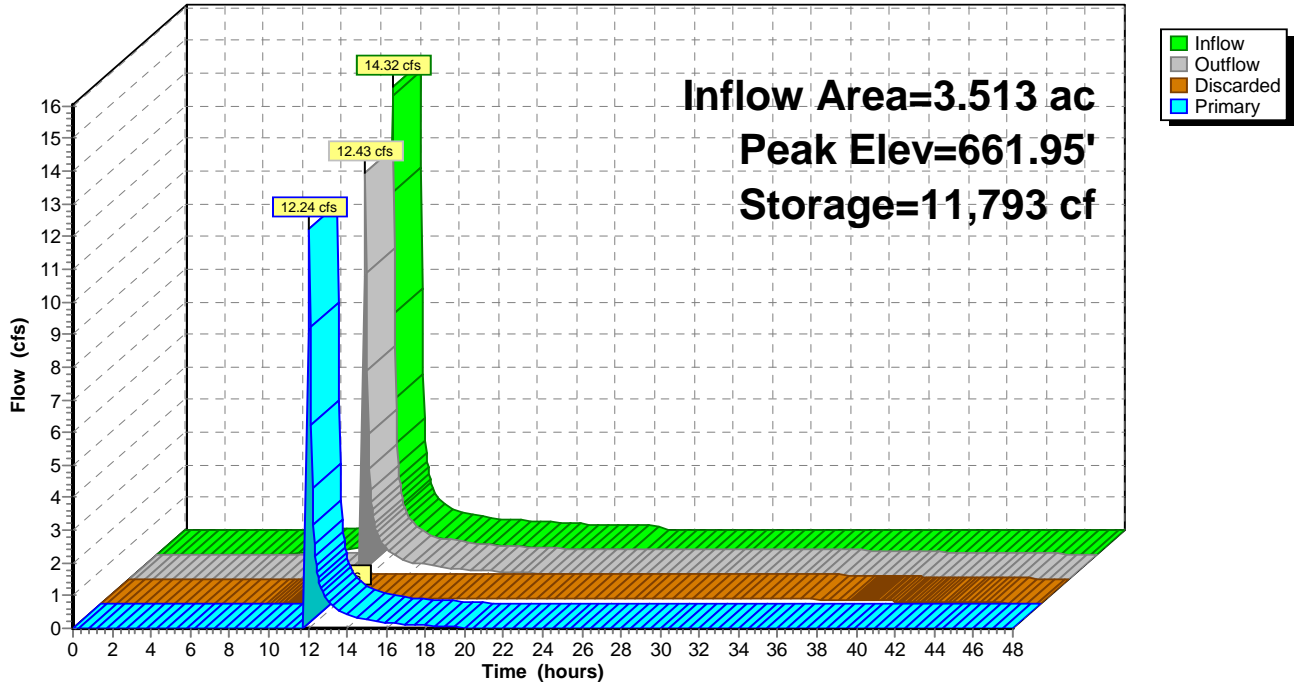
Device	Routing	Invert	Outlet Devices
#1	Discarded	658.00'	2.140 in/hr Exfiltration over Surface area Phase-In= 1.00'
#2	Primary	661.50'	15.0' long x 15.0' breadth Emergency Spillway Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Discarded OutFlow Max=0.19 cfs @ 12.10 hrs HW=661.95' (Free Discharge)
 ↑**1=Exfiltration** (Exfiltration Controls 0.19 cfs)

Primary OutFlow Max=12.21 cfs @ 12.10 hrs HW=661.95' (Free Discharge)
 ↑**2=Emergency Spillway** (Weir Controls 12.21 cfs @ 1.81 fps)

Pond IB1: Infiltration Basin 1

Hydrograph



Proposed Conditions 4-9-24

Type II 24-hr Q100 Rainfall=5.25"

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Summary for Pond IB2: Infiltration Basin 2

Inflow Area = 12.735 ac, 5.51% Impervious, Inflow Depth = 2.27" for Q100 event
 Inflow = 35.38 cfs @ 12.09 hrs, Volume= 2.411 af
 Outflow = 34.20 cfs @ 12.13 hrs, Volume= 2.410 af, Atten= 3%, Lag= 1.9 min
 Discarded = 0.56 cfs @ 12.13 hrs, Volume= 0.898 af
 Primary = 33.63 cfs @ 12.13 hrs, Volume= 1.512 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs
Peak Elev= 641.90' @ 12.13 hrs Surf.Area= 6,040 sf Storage= 18,274 cf

Plug-Flow detention time= 135.8 min calculated for 2.410 af (100% of inflow)
 Center-of-Mass det. time= 135.7 min (964.5 - 828.8)

Volume	Invert	Avail.Storage	Storage Description
#1	638.00'	25,379 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
638.00	3,396	0	0
639.00	4,038	3,717	3,717
640.00	4,705	4,372	8,089
641.00	5,397	5,051	13,140
641.50	5,753	2,788	15,927
642.00	6,114	2,967	18,894
643.00	6,857	6,486	25,379

Device	Routing	Invert	Outlet Devices
#1	Discarded	638.00'	4.040 in/hr Exfiltration over Surface area Phase-In= 1.00'
#2	Primary	641.00'	15.0' long x 15.0' breadth Emergency Spillway Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Discarded OutFlow Max=0.56 cfs @ 12.13 hrs HW=641.89' (Free Discharge)
 ↑1=Exfiltration (Exfiltration Controls 0.56 cfs)

Primary OutFlow Max=33.07 cfs @ 12.13 hrs HW=641.89' (Free Discharge)
 ↑2=Emergency Spillway (Weir Controls 33.07 cfs @ 2.48 fps)

Pond IB2: Infiltration Basin 2

Hydrograph

