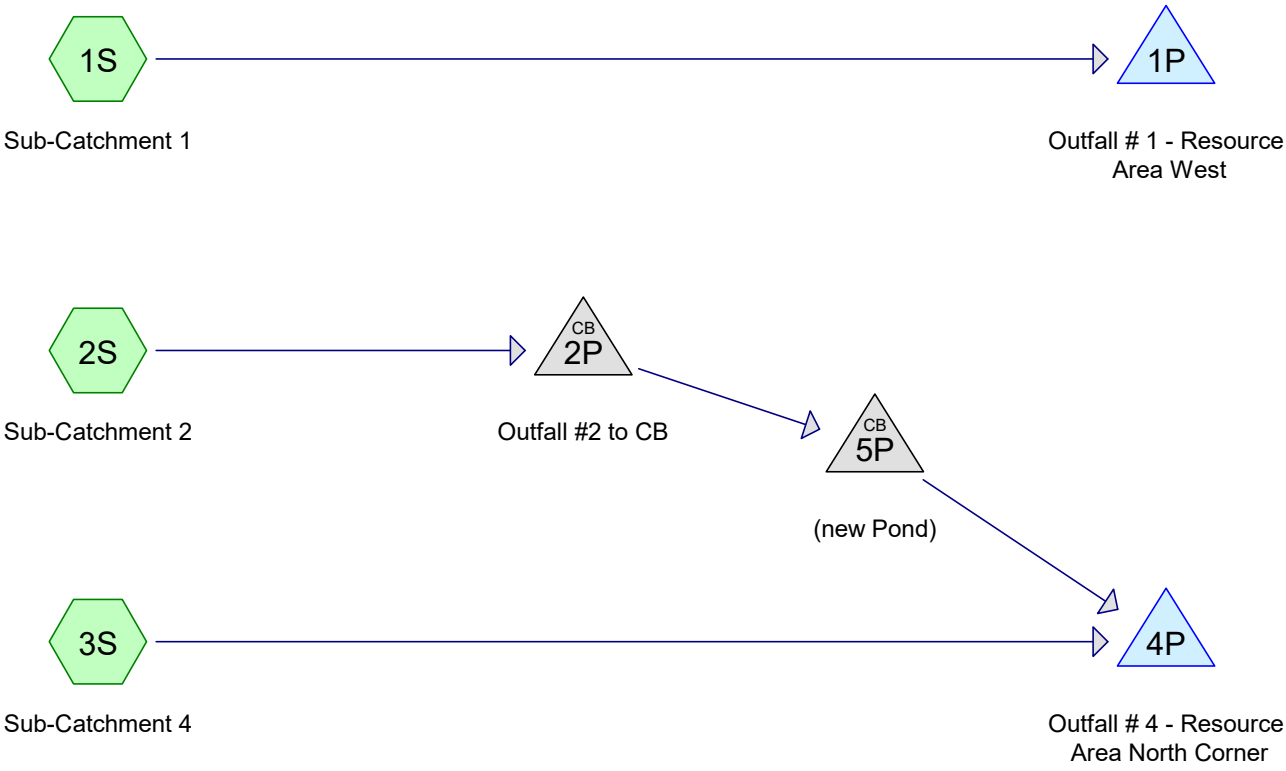


Subcat Reach Pond Link

Routing Diagram for Pret Development Analysis - MS 11-2-25
Prepared by {enter your company name here}, Printed 11/2/2025

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
4.171	80	>75% Grass cover, Good, HSG D (1S, 2S, 3S)
0.037	98	Paved parking, HSG D (3S)
0.084	98	Unconnected pavement, HSG D (2S)
4.292	**81**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
4.292	HSG D	1S, 2S, 3S
0.000	Other	
4.292		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	4.171	0.000	4.171	>75% Grass cover, Good	1S, 2S, 3S
0.000	0.000	0.000	0.037	0.000	0.037	Paved parking	3S
0.000	0.000	0.000	0.084	0.000	0.084	Unconnected pavement	2S
0.000	**0.000**	**0.000**	**4.292**	**0.000**	**4.292**	**TOTAL AREA**	

Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Diam/Width (inches)	Height (inches)	Inside-Fill (inches)
1	2P	134.36	132.70	215.0	0.0077	0.011	12.0	0.0	0.0
2	5P	129.50	127.39	430.0	0.0049	0.011	21.0	0.0	0.0

Time span=0.00-48.00 hrs, dt=0.01 hrs, 4801 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Sub-Catchment 1 Runoff Area=0.967 ac 0.00% Impervious Runoff Depth=1.46"
Flow Length=388' Slope=0.0150 '/' Tc=13.0 min CN=80 Runoff=1.31 cfs 0.118 af

Subcatchment 2S: Sub-Catchment 2 Runoff Area=0.585 ac 14.36% Impervious Runoff Depth=1.53"
Flow Length=128' Tc=3.9 min UI Adjusted CN=81 Runoff=1.13 cfs 0.075 af

Subcatchment 3S: Sub-Catchment 4 Runoff Area=2.740 ac 1.35% Impervious Runoff Depth=1.46"
Flow Length=460' Slope=0.0150 '/' Tc=14.4 min CN=80 Runoff=3.57 cfs 0.334 af

Pond 1P: Outfall # 1 - Resource Area West Inflow=1.31 cfs 0.118 af
Primary=1.31 cfs 0.118 af

Pond 2P: Outfall #2 to CB Peak Elev=134.88' Inflow=1.13 cfs 0.075 af
12.0" Round Culvert n=0.011 L=215.0' S=0.0077 '/' Outflow=1.13 cfs 0.075 af

Pond 4P: Outfall # 4 - Resource Area North Corner Inflow=4.12 cfs 0.409 af
Primary=4.12 cfs 0.409 af

Pond 5P: (new Pond) Peak Elev=129.97' Inflow=1.13 cfs 0.075 af
21.0" Round Culvert n=0.011 L=430.0' S=0.0049 '/' Outflow=1.13 cfs 0.075 af

Total Runoff Area = 4.292 ac Runoff Volume = 0.527 af Average Runoff Depth = 1.47"
97.18% Pervious = 4.171 ac 2.82% Impervious = 0.121 ac

Summary for Subcatchment 1S: Sub-Catchment 1

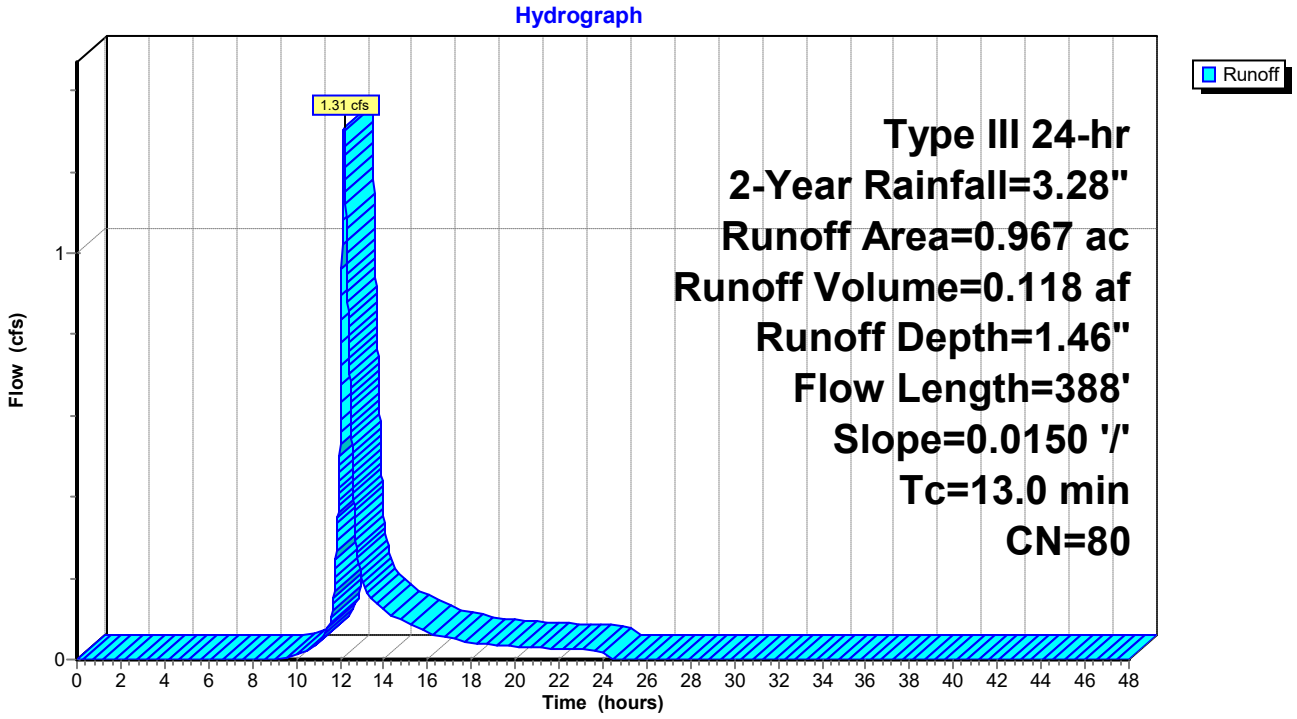
Runoff = 1.31 cfs @ 12.18 hrs, Volume= 0.118 af, Depth= 1.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.28"

Area (ac)	CN	Description
0.967	80	>75% Grass cover, Good, HSG D
0.967		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.4	50	0.0150	0.13		**Sheet Flow, Greass Area** Grass: Short n= 0.150 P2= 3.10"
6.6	338	0.0150	0.86		**Shallow Concentrated Flow, Grass Field** Short Grass Pasture Kv= 7.0 fps
13.0	388	Total			

Subcatchment 1S: Sub-Catchment 1



Summary for Subcatchment 2S: Sub-Catchment 2

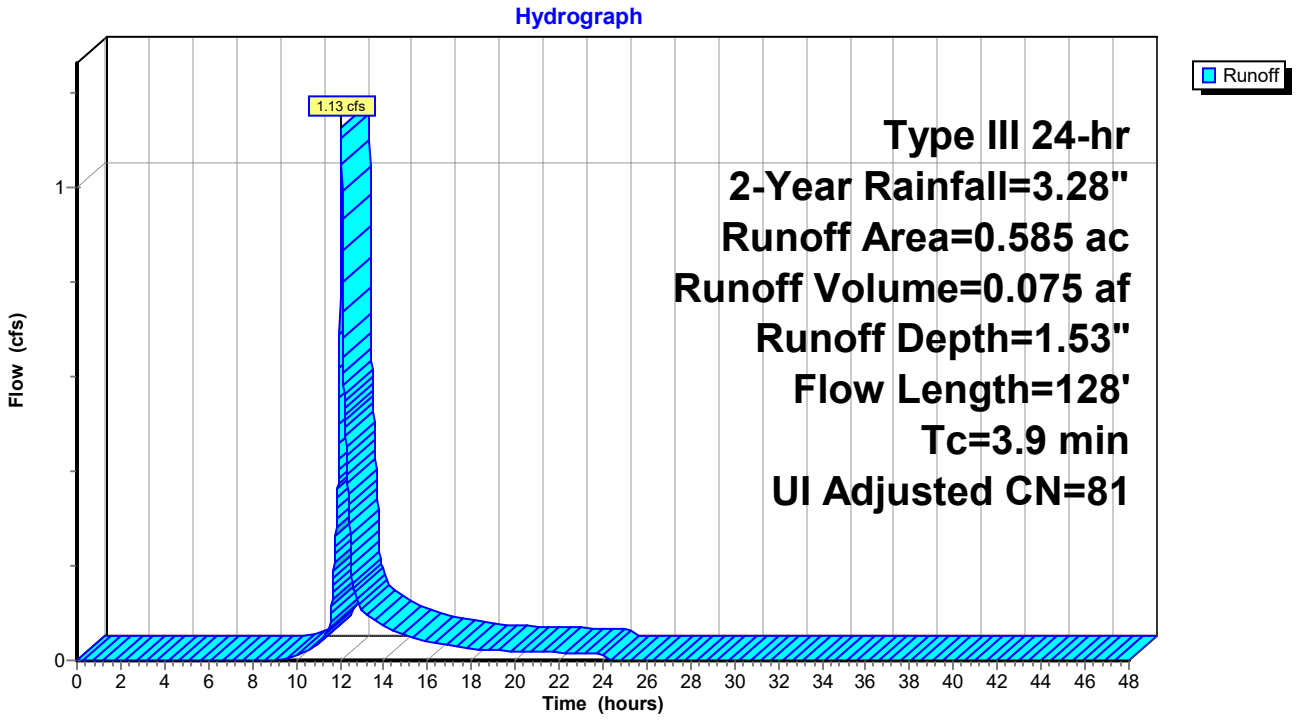
Runoff = 1.13 cfs @ 12.06 hrs, Volume= 0.075 af, Depth= 1.53"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.28"

Area (ac)	CN	Adj	Description
0.084	98		Unconnected pavement, HSG D
0.501	80		>75% Grass cover, Good, HSG D
0.585	83	81	Weighted Average, UI Adjusted
0.501			85.64% Pervious Area
0.084			14.36% Impervious Area
0.084			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	50	0.0800	0.25		**Sheet Flow, Grass Hill** Grass: Short n= 0.150 P2= 3.10"
0.6	78	0.1000	2.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.9	128	Total			

Subcatchment 2S: Sub-Catchment 2



Summary for Subcatchment 3S: Sub-Catchment 4

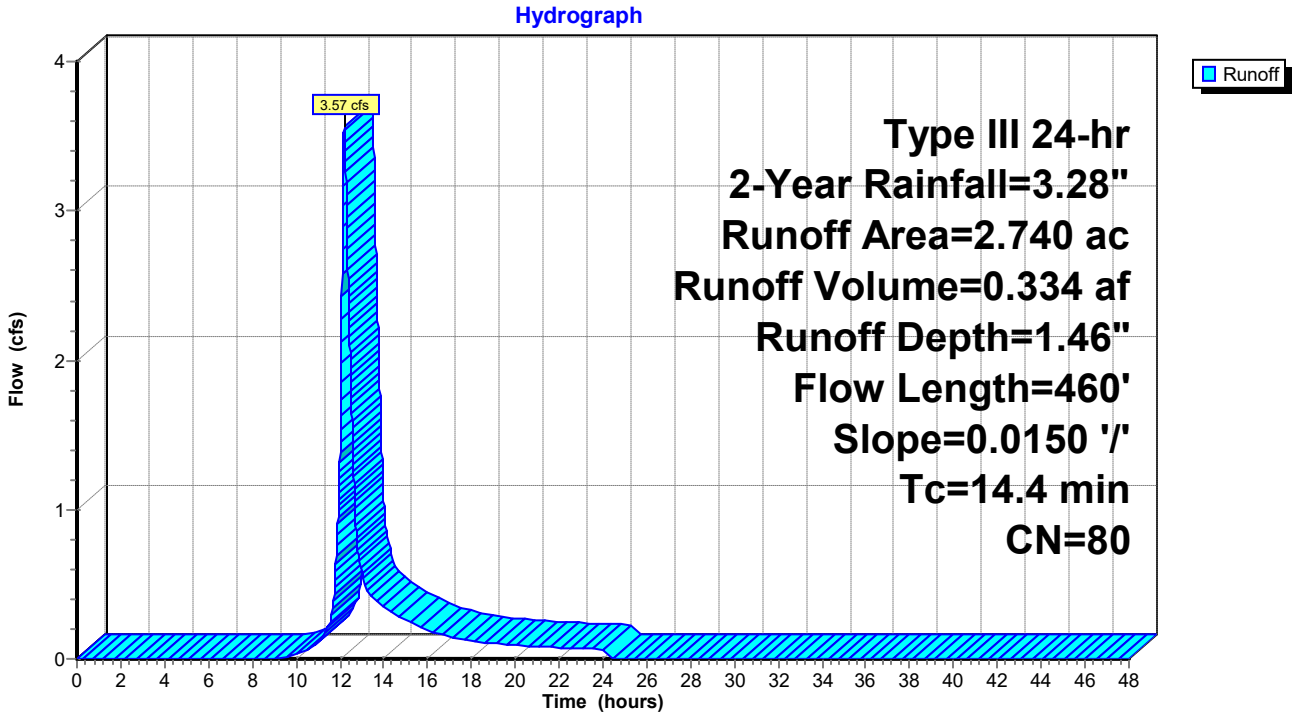
Runoff = 3.57 cfs @ 12.21 hrs, Volume= 0.334 af, Depth= 1.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.28"

Area (ac)	CN	Description
0.037	98	Paved parking, HSG D
2.703	80	>75% Grass cover, Good, HSG D
2.740	80	Weighted Average
2.703		98.65% Pervious Area
0.037		1.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.4	50	0.0150	0.13		**Sheet Flow, Clay Infield** Grass: Short n= 0.150 P2= 3.10"
8.0	410	0.0150	0.86		**Shallow Concentrated Flow, Grass Field** Short Grass Pasture Kv= 7.0 fps
14.4	460	Total			

Subcatchment 3S: Sub-Catchment 4



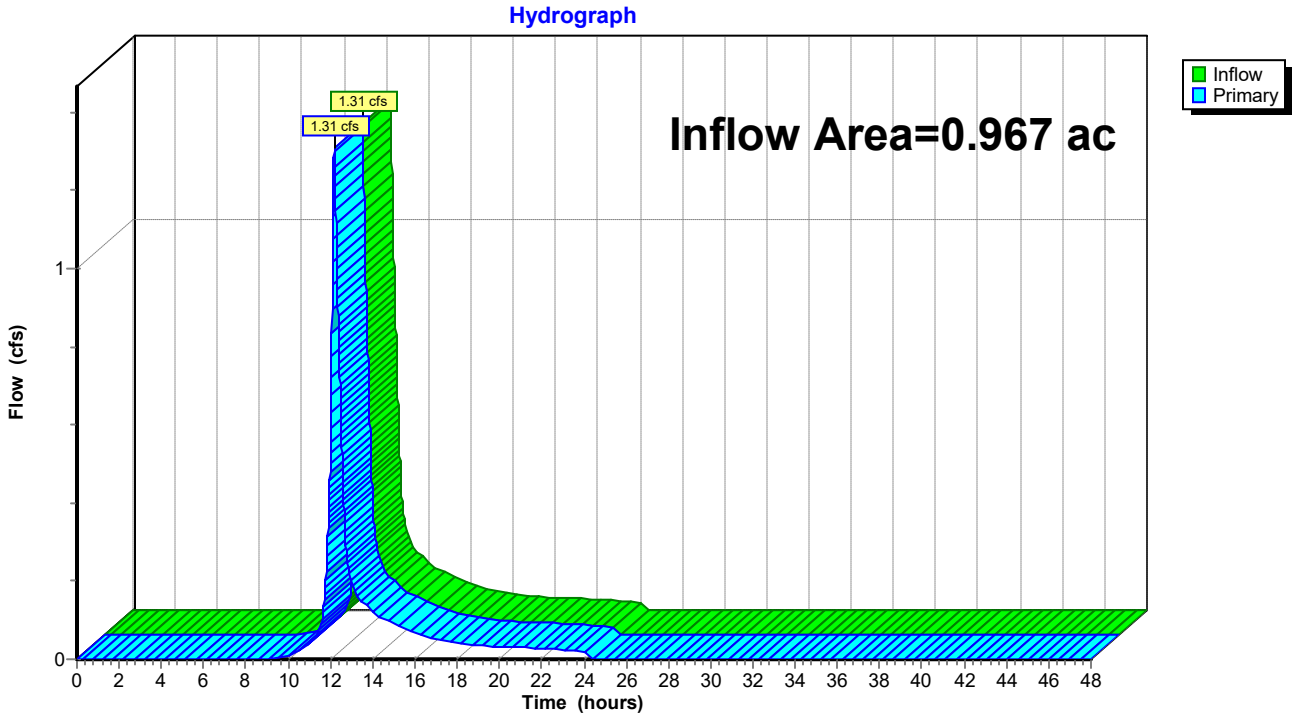
Summary for Pond 1P: Outfall # 1 - Resource Area West

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 0.967 ac, 0.00% Impervious, Inflow Depth = 1.46" for 2-Year event
Inflow = 1.31 cfs @ 12.18 hrs, Volume= 0.118 af
Primary = 1.31 cfs @ 12.18 hrs, Volume= 0.118 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Pond 1P: Outfall # 1 - Resource Area West



Summary for Pond 2P: Outfall #2 to CB

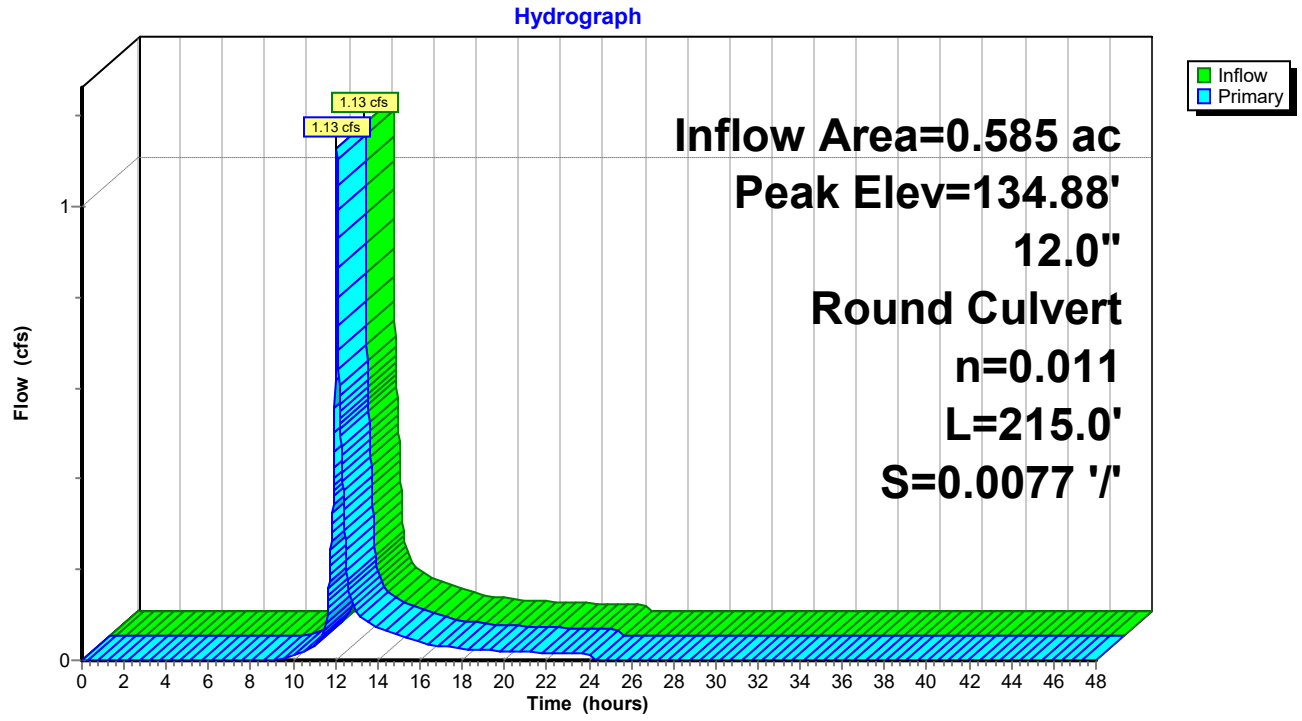
Inflow Area = 0.585 ac, 14.36% Impervious, Inflow Depth = 1.53" for 2-Year event
Inflow = 1.13 cfs @ 12.06 hrs, Volume= 0.075 af
Outflow = 1.13 cfs @ 12.06 hrs, Volume= 0.075 af, Atten= 0%, Lag= 0.0 min
Primary = 1.13 cfs @ 12.06 hrs, Volume= 0.075 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Peak Elev= 134.88' @ 12.06 hrs
Flood Elev= 138.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	134.36'	**12.0" Round Culvert** L= 215.0' RCP, groove end projecting, Ke= 0.200 Inlet / Outlet Invert= 134.36' / 132.70' S= 0.0077 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=1.13 cfs @ 12.06 hrs HW=134.88' (Free Discharge)
1=Culvert (Barrel Controls 1.13 cfs @ 3.98 fps)

Pond 2P: Outfall #2 to CB



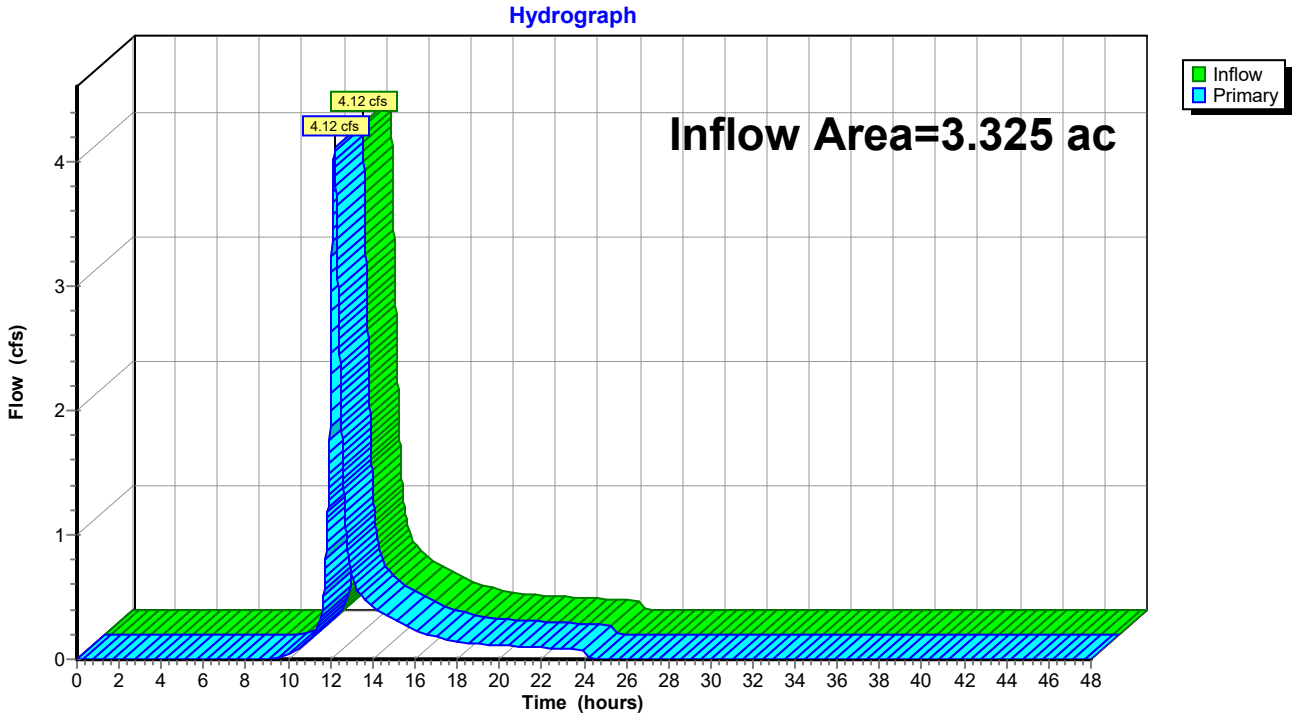
Summary for Pond 4P: Outfall # 4 - Resource Area North Corner

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.325 ac, 3.64% Impervious, Inflow Depth = 1.48" for 2-Year event
Inflow = 4.12 cfs @ 12.20 hrs, Volume= 0.409 af
Primary = 4.12 cfs @ 12.20 hrs, Volume= 0.409 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Pond 4P: Outfall # 4 - Resource Area North Corner



Summary for Pond 5P: (new Pond)

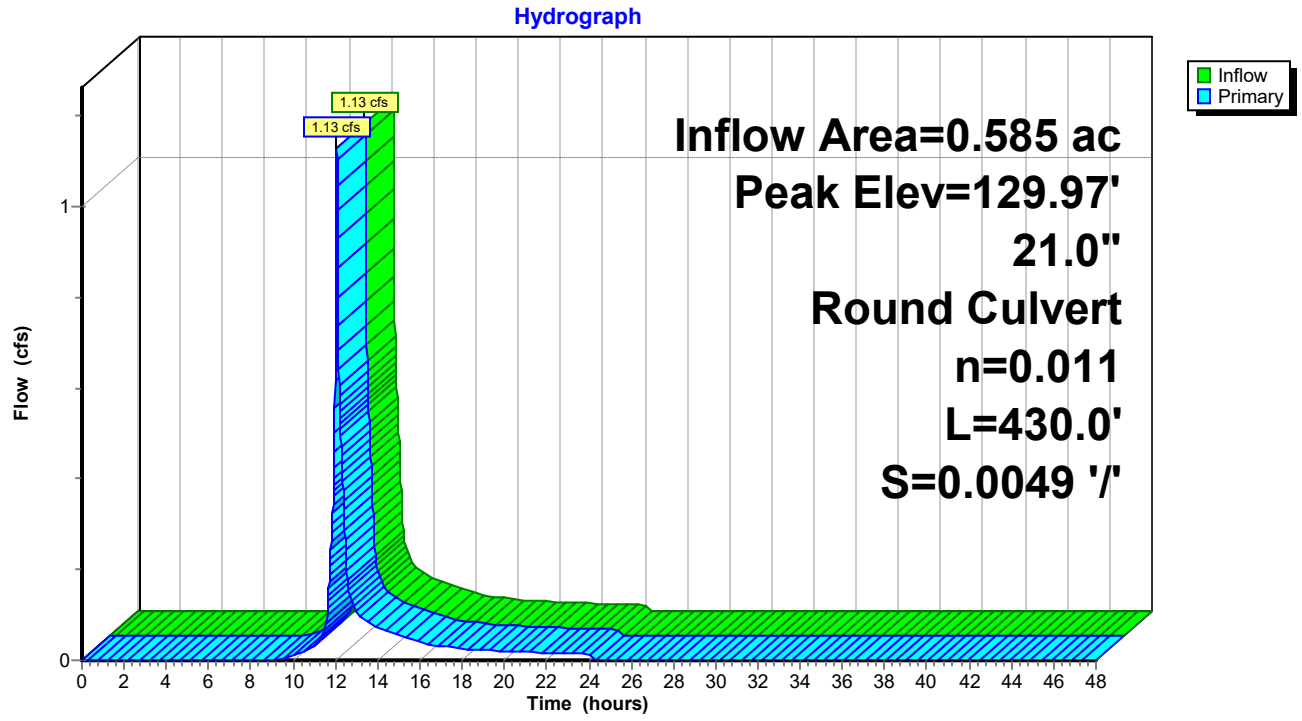
Inflow Area = 0.585 ac, 14.36% Impervious, Inflow Depth = 1.53" for 2-Year event
Inflow = 1.13 cfs @ 12.06 hrs, Volume= 0.075 af
Outflow = 1.13 cfs @ 12.06 hrs, Volume= 0.075 af, Atten= 0%, Lag= 0.0 min
Primary = 1.13 cfs @ 12.06 hrs, Volume= 0.075 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Peak Elev= 129.97' @ 12.06 hrs
Flood Elev= 138.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	129.50'	**21.0" Round Culvert** L= 430.0' RCP, groove end projecting, Ke= 0.200 Inlet / Outlet Invert= 129.50' / 127.39' S= 0.0049 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 2.41 sf

Primary OutFlow Max=1.13 cfs @ 12.06 hrs HW=129.97' (Free Discharge)
1=Culvert (Barrel Controls 1.13 cfs @ 3.28 fps)

Pond 5P: (new Pond)



Time span=0.00-48.00 hrs, dt=0.01 hrs, 4801 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Sub-Catchment 1 Runoff Area=0.967 ac 0.00% Impervious Runoff Depth=3.05"
Flow Length=388' Slope=0.0150 '/' Tc=13.0 min CN=80 Runoff=2.76 cfs 0.246 af

Subcatchment 2S: Sub-Catchment 2 Runoff Area=0.585 ac 14.36% Impervious Runoff Depth=3.14"
Flow Length=128' Tc=3.9 min UI Adjusted CN=81 Runoff=2.32 cfs 0.153 af

Subcatchment 3S: Sub-Catchment 4 Runoff Area=2.740 ac 1.35% Impervious Runoff Depth=3.05"
Flow Length=460' Slope=0.0150 '/' Tc=14.4 min CN=80 Runoff=7.53 cfs 0.697 af

Pond 1P: Outfall # 1 - Resource Area West Inflow=2.76 cfs 0.246 af
Primary=2.76 cfs 0.246 af

Pond 2P: Outfall #2 to CB Peak Elev=135.16' Inflow=2.32 cfs 0.153 af
12.0" Round Culvert n=0.011 L=215.0' S=0.0077 '/' Outflow=2.32 cfs 0.153 af

Pond 4P: Outfall # 4 - Resource Area North Corner Inflow=8.63 cfs 0.850 af
Primary=8.63 cfs 0.850 af

Pond 5P: (new Pond) Peak Elev=130.18' Inflow=2.32 cfs 0.153 af
21.0" Round Culvert n=0.011 L=430.0' S=0.0049 '/' Outflow=2.32 cfs 0.153 af

Total Runoff Area = 4.292 ac Runoff Volume = 1.096 af Average Runoff Depth = 3.06"
97.18% Pervious = 4.171 ac 2.82% Impervious = 0.121 ac

Summary for Subcatchment 1S: Sub-Catchment 1

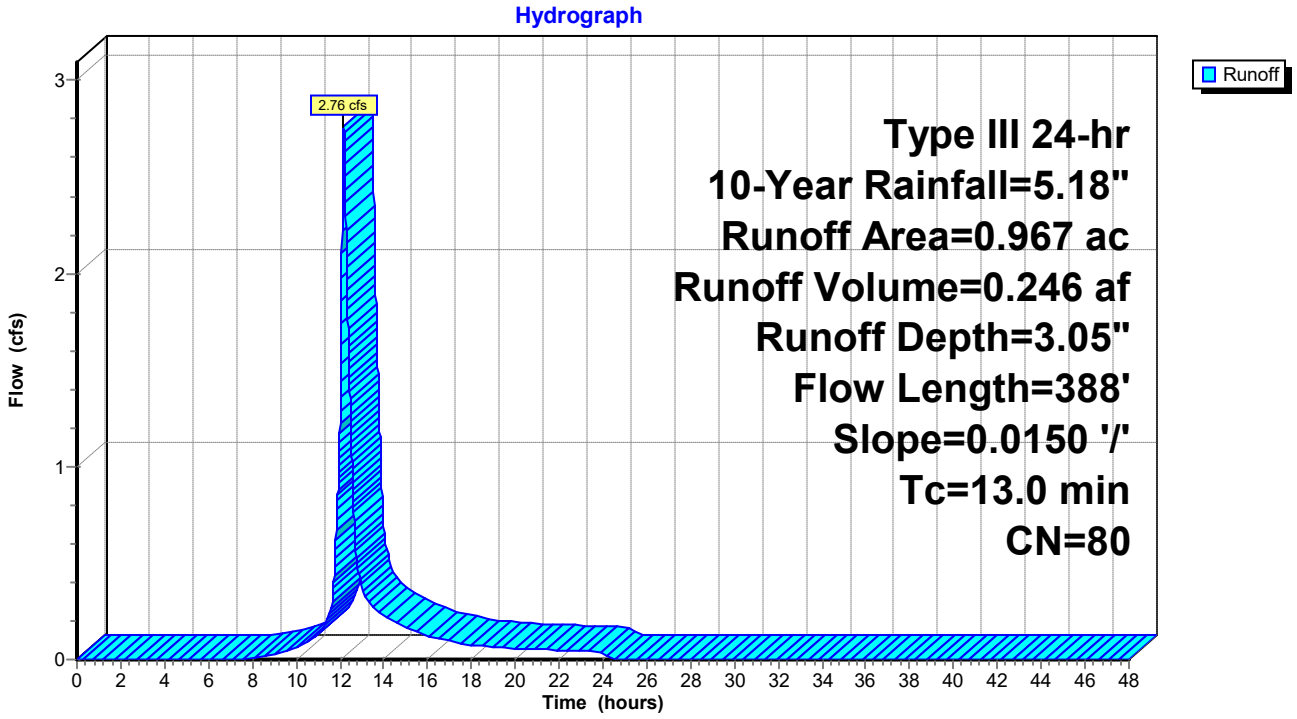
Runoff = 2.76 cfs @ 12.18 hrs, Volume= 0.246 af, Depth= 3.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-Year Rainfall=5.18"

Area (ac)	CN	Description
0.967	80	>75% Grass cover, Good, HSG D
0.967		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.4	50	0.0150	0.13		**Sheet Flow, Greass Area** Grass: Short n= 0.150 P2= 3.10"
6.6	338	0.0150	0.86		**Shallow Concentrated Flow, Grass Field** Short Grass Pasture Kv= 7.0 fps
13.0	388	Total			

Subcatchment 1S: Sub-Catchment 1



Summary for Subcatchment 2S: Sub-Catchment 2

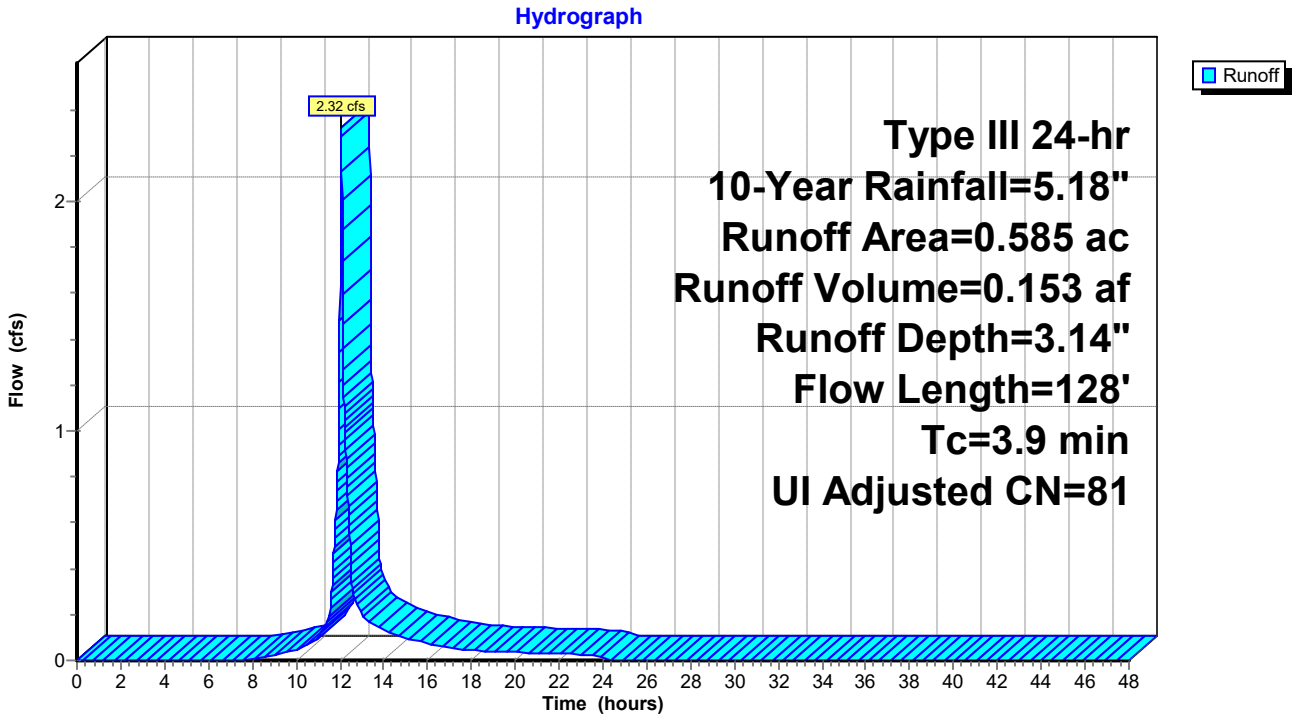
Runoff = 2.32 cfs @ 12.06 hrs, Volume= 0.153 af, Depth= 3.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-Year Rainfall=5.18"

Area (ac)	CN	Adj	Description
0.084	98		Unconnected pavement, HSG D
0.501	80		>75% Grass cover, Good, HSG D
0.585	83	81	Weighted Average, UI Adjusted
0.501			85.64% Pervious Area
0.084			14.36% Impervious Area
0.084			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	50	0.0800	0.25		**Sheet Flow, Grass Hill** Grass: Short n= 0.150 P2= 3.10"
0.6	78	0.1000	2.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.9	128	Total			

Subcatchment 2S: Sub-Catchment 2



Summary for Subcatchment 3S: Sub-Catchment 4

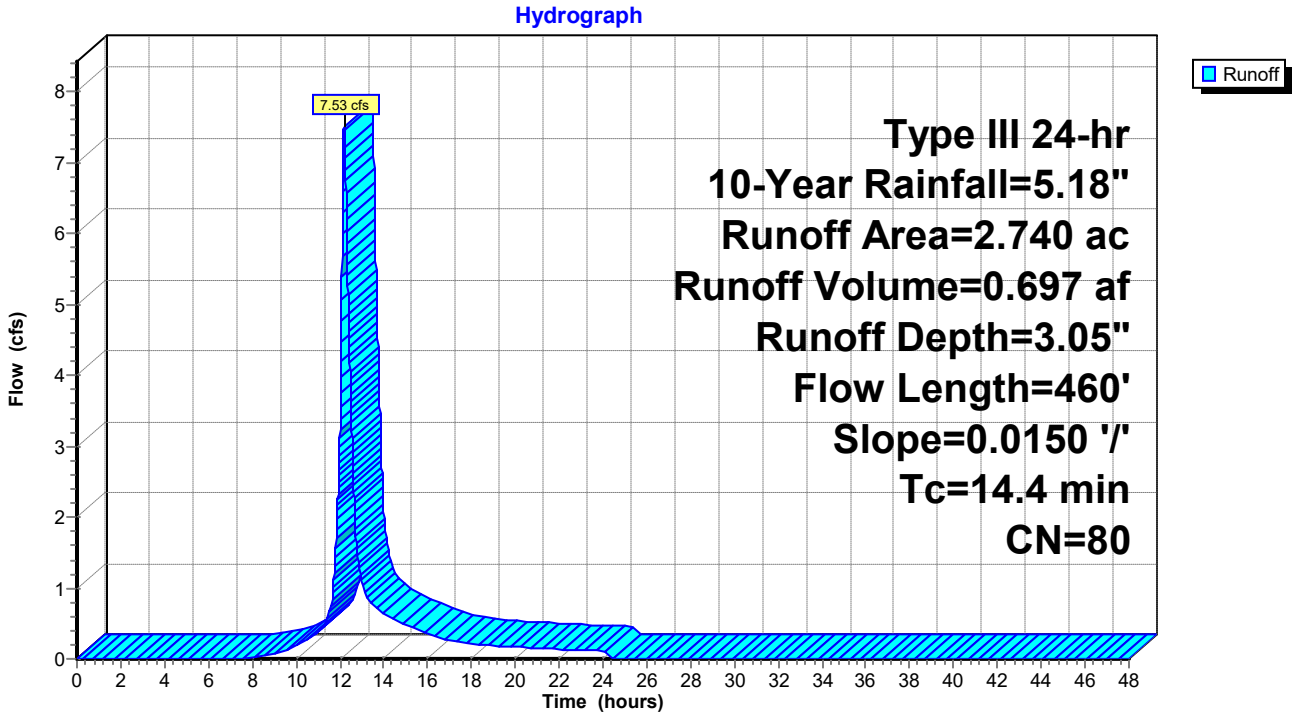
Runoff = 7.53 cfs @ 12.20 hrs, Volume= 0.697 af, Depth= 3.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-Year Rainfall=5.18"

Area (ac)	CN	Description
0.037	98	Paved parking, HSG D
2.703	80	>75% Grass cover, Good, HSG D
2.740	80	Weighted Average
2.703		98.65% Pervious Area
0.037		1.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.4	50	0.0150	0.13		**Sheet Flow, Clay Infield** Grass: Short n= 0.150 P2= 3.10"
8.0	410	0.0150	0.86		**Shallow Concentrated Flow, Grass Field** Short Grass Pasture Kv= 7.0 fps
14.4	460	Total			

Subcatchment 3S: Sub-Catchment 4



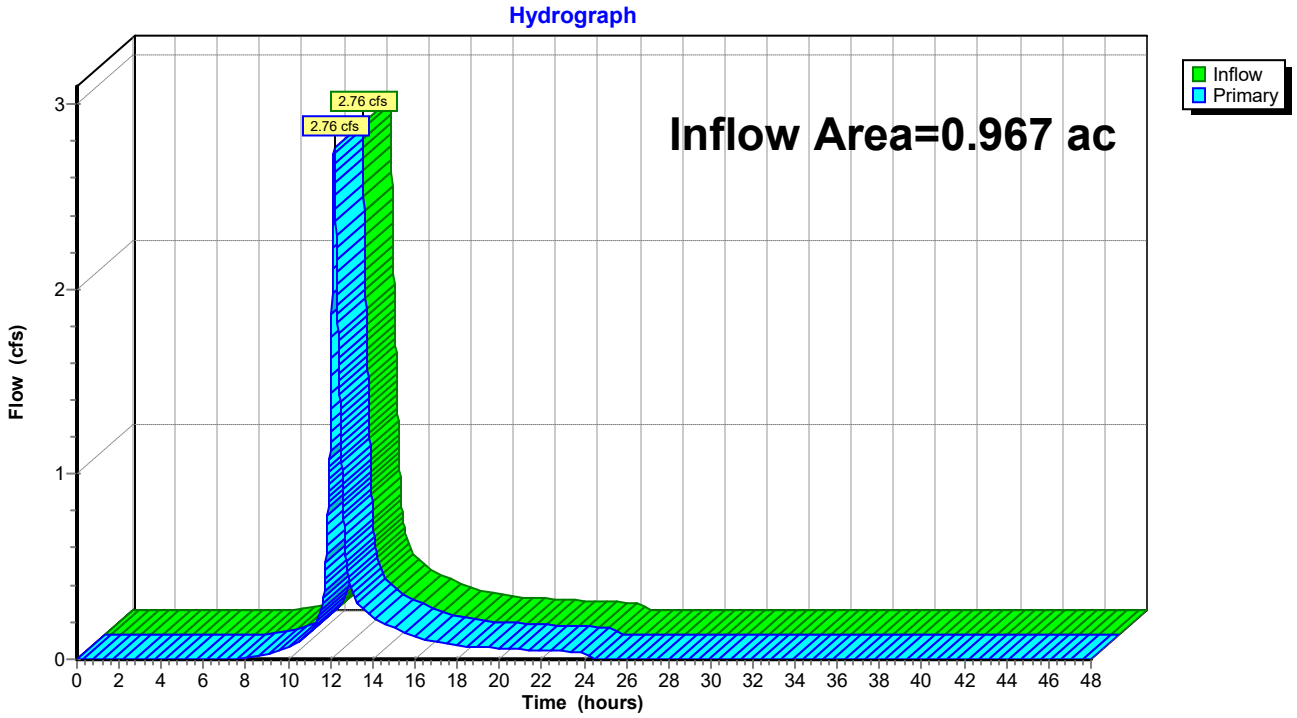
Summary for Pond 1P: Outfall # 1 - Resource Area West

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 0.967 ac, 0.00% Impervious, Inflow Depth = 3.05" for 10-Year event
Inflow = 2.76 cfs @ 12.18 hrs, Volume= 0.246 af
Primary = 2.76 cfs @ 12.18 hrs, Volume= 0.246 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Pond 1P: Outfall # 1 - Resource Area West



Summary for Pond 2P: Outfall #2 to CB

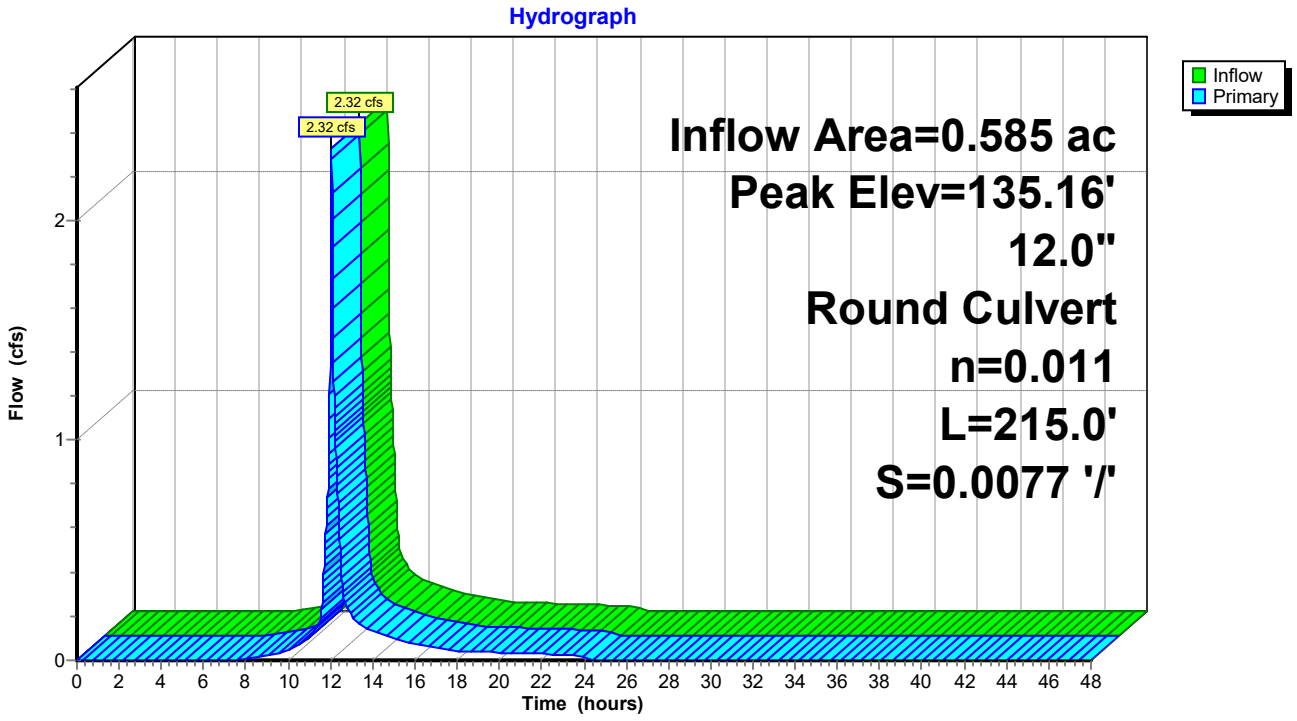
Inflow Area = 0.585 ac, 14.36% Impervious, Inflow Depth = 3.14" for 10-Year event
Inflow = 2.32 cfs @ 12.06 hrs, Volume= 0.153 af
Outflow = 2.32 cfs @ 12.06 hrs, Volume= 0.153 af, Atten= 0%, Lag= 0.0 min
Primary = 2.32 cfs @ 12.06 hrs, Volume= 0.153 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Peak Elev= 135.16' @ 12.06 hrs
Flood Elev= 138.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	134.36'	**12.0" Round Culvert** L= 215.0' RCP, groove end projecting, Ke= 0.200 Inlet / Outlet Invert= 134.36' / 132.70' S= 0.0077 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=2.32 cfs @ 12.06 hrs HW=135.16' (Free Discharge)
1=Culvert (Barrel Controls 2.32 cfs @ 4.71 fps)

Pond 2P: Outfall #2 to CB



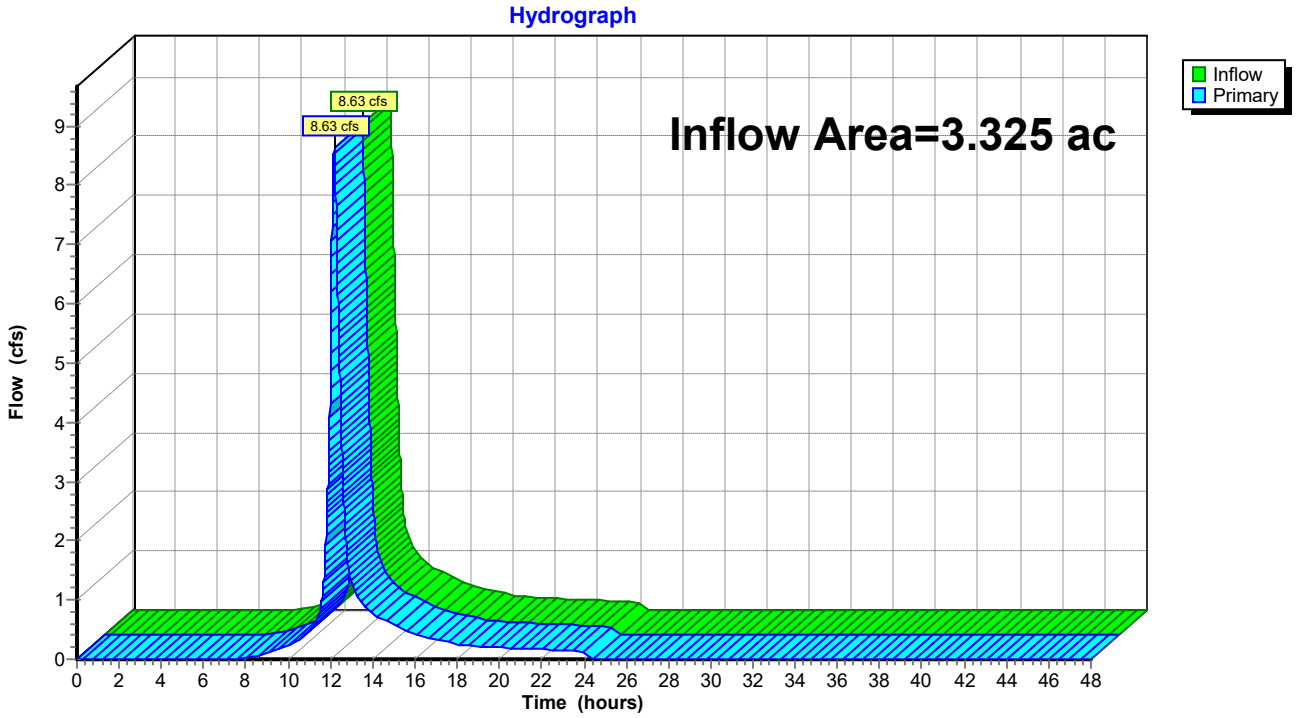
Summary for Pond 4P: Outfall # 4 - Resource Area North Corner

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.325 ac, 3.64% Impervious, Inflow Depth = 3.07" for 10-Year event
Inflow = 8.63 cfs @ 12.18 hrs, Volume= 0.850 af
Primary = 8.63 cfs @ 12.18 hrs, Volume= 0.850 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Pond 4P: Outfall # 4 - Resource Area North Corner



Summary for Pond 5P: (new Pond)

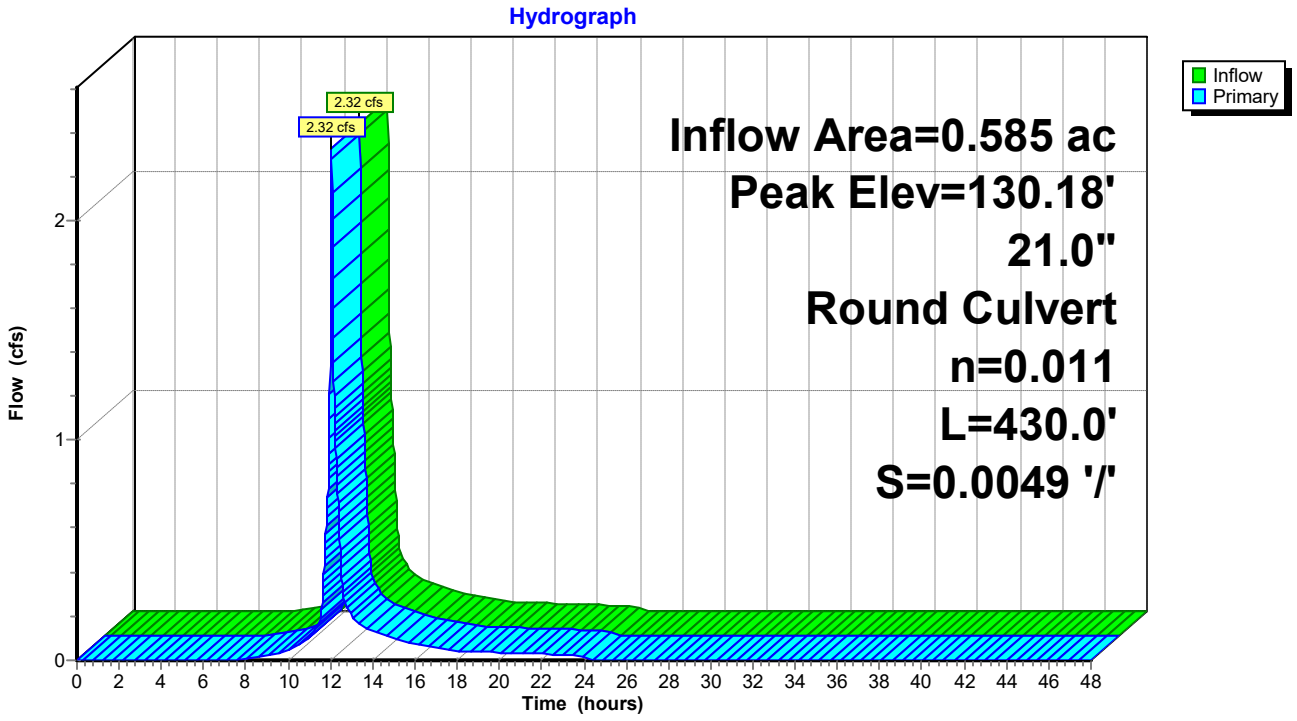
Inflow Area = 0.585 ac, 14.36% Impervious, Inflow Depth = 3.14" for 10-Year event
Inflow = 2.32 cfs @ 12.06 hrs, Volume= 0.153 af
Outflow = 2.32 cfs @ 12.06 hrs, Volume= 0.153 af, Atten= 0%, Lag= 0.0 min
Primary = 2.32 cfs @ 12.06 hrs, Volume= 0.153 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Peak Elev= 130.18' @ 12.06 hrs
Flood Elev= 138.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	129.50'	**21.0" Round Culvert** L= 430.0' RCP, groove end projecting, Ke= 0.200 Inlet / Outlet Invert= 129.50' / 127.39' S= 0.0049 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 2.41 sf

Primary OutFlow Max=2.32 cfs @ 12.06 hrs HW=130.18' (Free Discharge)
1=Culvert (Barrel Controls 2.32 cfs @ 4.01 fps)

Pond 5P: (new Pond)



Time span=0.00-48.00 hrs, dt=0.01 hrs, 4801 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Sub-Catchment 1 Runoff Area=0.967 ac 0.00% Impervious Runoff Depth=4.12"
Flow Length=388' Slope=0.0150 '/' Tc=13.0 min CN=80 Runoff=3.71 cfs 0.332 af

Subcatchment 2S: Sub-Catchment 2 Runoff Area=0.585 ac 14.36% Impervious Runoff Depth=4.22"
Flow Length=128' Tc=3.9 min UI Adjusted CN=81 Runoff=3.10 cfs 0.206 af

Subcatchment 3S: Sub-Catchment 4 Runoff Area=2.740 ac 1.35% Impervious Runoff Depth=4.12"
Flow Length=460' Slope=0.0150 '/' Tc=14.4 min CN=80 Runoff=10.12 cfs 0.940 af

Pond 1P: Outfall # 1 - Resource Area West Inflow=3.71 cfs 0.332 af
Primary=3.71 cfs 0.332 af

Pond 2P: Outfall #2 to CB Peak Elev=135.35' Inflow=3.10 cfs 0.206 af
12.0" Round Culvert n=0.011 L=215.0' S=0.0077 '/' Outflow=3.10 cfs 0.206 af

Pond 4P: Outfall # 4 - Resource Area North Corner Inflow=11.58 cfs 1.146 af
Primary=11.58 cfs 1.146 af

Pond 5P: (new Pond) Peak Elev=130.29' Inflow=3.10 cfs 0.206 af
21.0" Round Culvert n=0.011 L=430.0' S=0.0049 '/' Outflow=3.10 cfs 0.206 af

Total Runoff Area = 4.292 ac Runoff Volume = 1.478 af Average Runoff Depth = 4.13"
97.18% Pervious = 4.171 ac 2.82% Impervious = 0.121 ac

Summary for Subcatchment 1S: Sub-Catchment 1

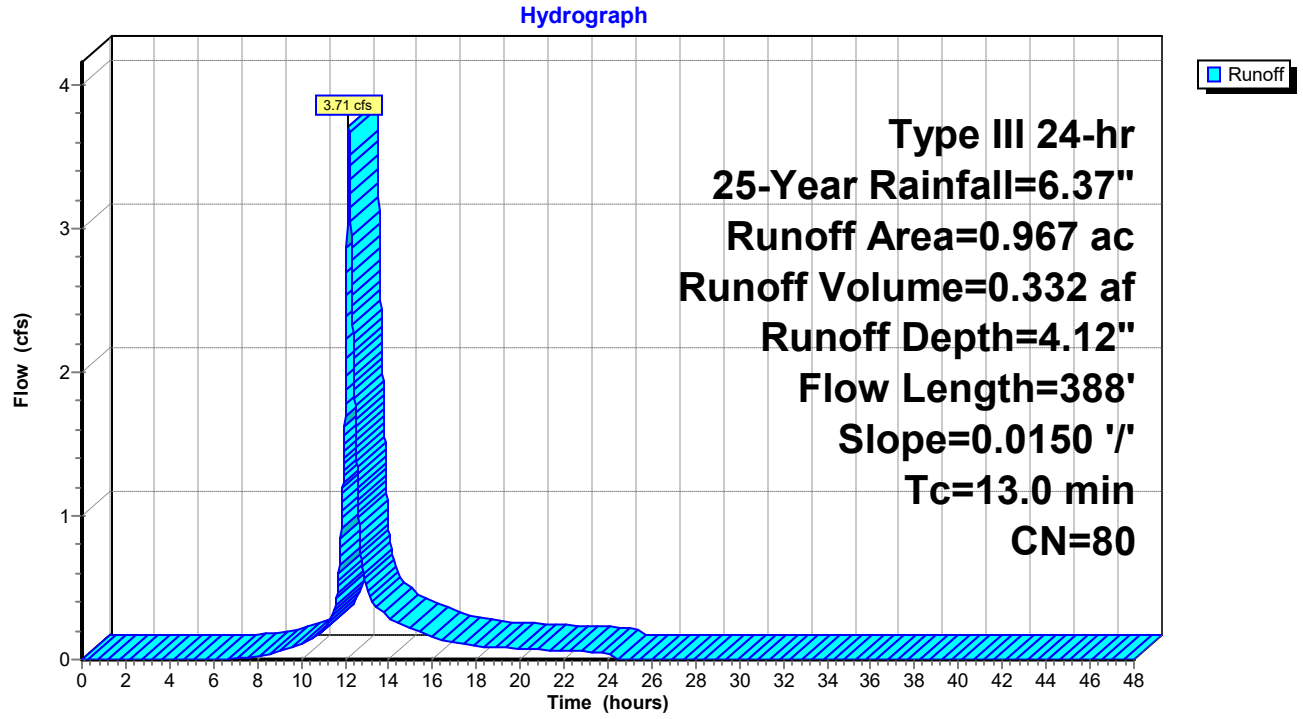
Runoff = 3.71 cfs @ 12.18 hrs, Volume= 0.332 af, Depth= 4.12"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-Year Rainfall=6.37"

Area (ac)	CN	Description
0.967	80	>75% Grass cover, Good, HSG D
0.967		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.4	50	0.0150	0.13		**Sheet Flow, Greass Area** Grass: Short n= 0.150 P2= 3.10"
6.6	338	0.0150	0.86		**Shallow Concentrated Flow, Grass Field** Short Grass Pasture Kv= 7.0 fps
13.0	388	Total			

Subcatchment 1S: Sub-Catchment 1



Summary for Subcatchment 2S: Sub-Catchment 2

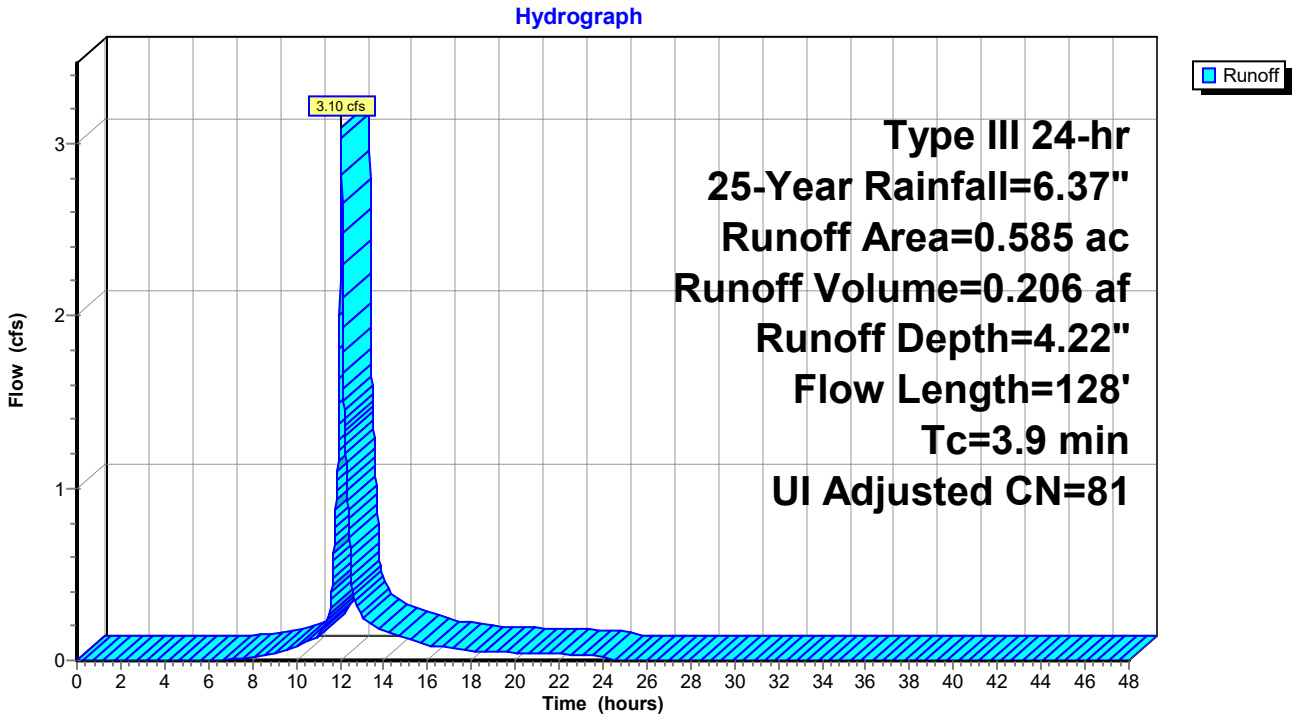
Runoff = 3.10 cfs @ 12.06 hrs, Volume= 0.206 af, Depth= 4.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-Year Rainfall=6.37"

Area (ac)	CN	Adj	Description
0.084	98		Unconnected pavement, HSG D
0.501	80		>75% Grass cover, Good, HSG D
0.585	83	81	Weighted Average, UI Adjusted
0.501			85.64% Pervious Area
0.084			14.36% Impervious Area
0.084			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	50	0.0800	0.25		**Sheet Flow, Grass Hill** Grass: Short n= 0.150 P2= 3.10"
0.6	78	0.1000	2.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.9	128	Total			

Subcatchment 2S: Sub-Catchment 2



Summary for Subcatchment 3S: Sub-Catchment 4

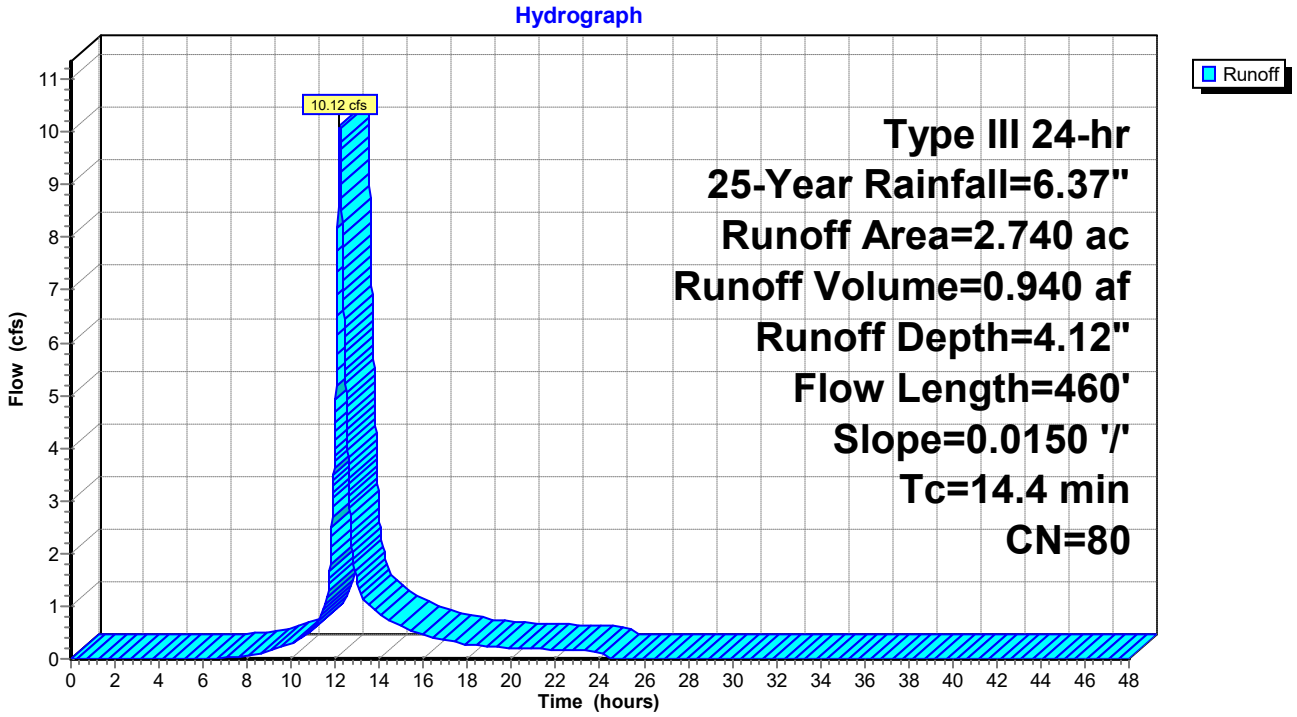
Runoff = 10.12 cfs @ 12.20 hrs, Volume= 0.940 af, Depth= 4.12"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-Year Rainfall=6.37"

Area (ac)	CN	Description
0.037	98	Paved parking, HSG D
2.703	80	>75% Grass cover, Good, HSG D
2.740	80	Weighted Average
2.703		98.65% Pervious Area
0.037		1.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.4	50	0.0150	0.13		**Sheet Flow, Clay Infield** Grass: Short n= 0.150 P2= 3.10"
8.0	410	0.0150	0.86		**Shallow Concentrated Flow, Grass Field** Short Grass Pasture Kv= 7.0 fps
14.4	460	Total			

Subcatchment 3S: Sub-Catchment 4



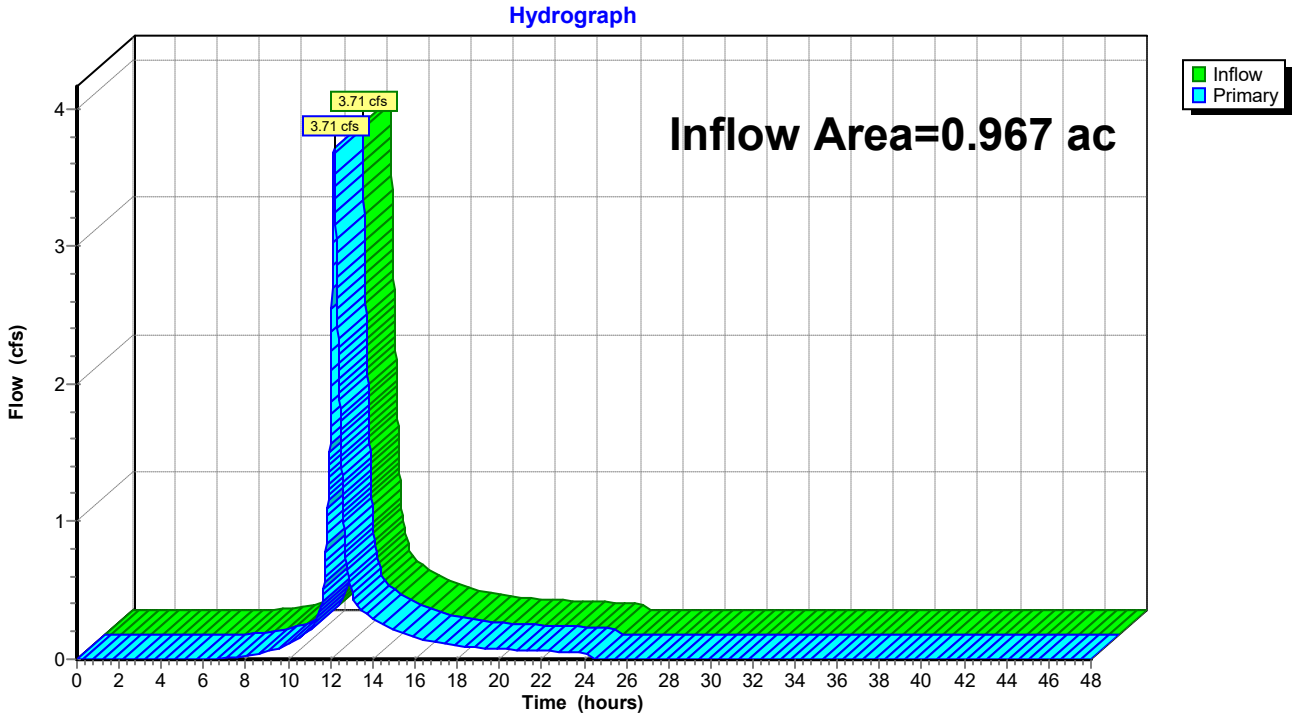
Summary for Pond 1P: Outfall # 1 - Resource Area West

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 0.967 ac, 0.00% Impervious, Inflow Depth = 4.12" for 25-Year event
Inflow = 3.71 cfs @ 12.18 hrs, Volume= 0.332 af
Primary = 3.71 cfs @ 12.18 hrs, Volume= 0.332 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Pond 1P: Outfall # 1 - Resource Area West



Summary for Pond 2P: Outfall #2 to CB

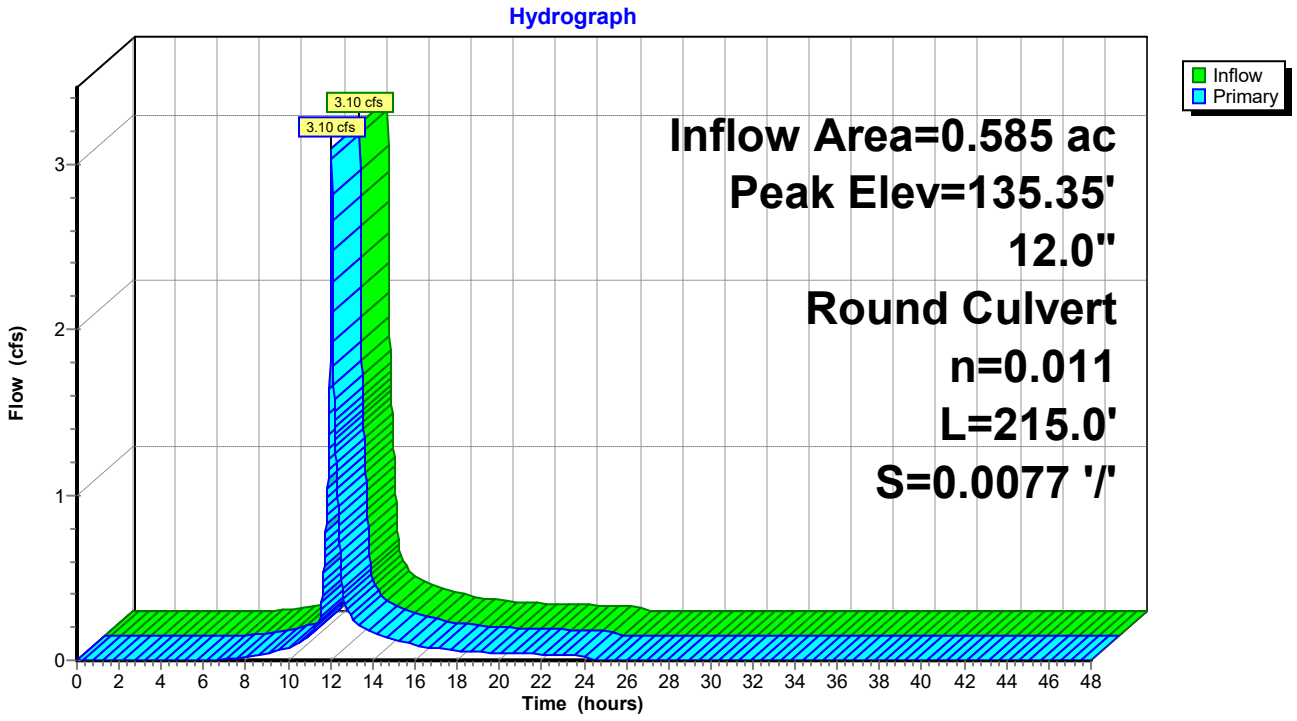
Inflow Area = 0.585 ac, 14.36% Impervious, Inflow Depth = 4.22" for 25-Year event
Inflow = 3.10 cfs @ 12.06 hrs, Volume= 0.206 af
Outflow = 3.10 cfs @ 12.06 hrs, Volume= 0.206 af, Atten= 0%, Lag= 0.0 min
Primary = 3.10 cfs @ 12.06 hrs, Volume= 0.206 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Peak Elev= 135.35' @ 12.06 hrs
Flood Elev= 138.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	134.36'	**12.0" Round Culvert** L= 215.0' RCP, groove end projecting, Ke= 0.200 Inlet / Outlet Invert= 134.36' / 132.70' S= 0.0077 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=3.09 cfs @ 12.06 hrs HW=135.35' (Free Discharge)
1=Culvert (Barrel Controls 3.09 cfs @ 4.97 fps)

Pond 2P: Outfall #2 to CB



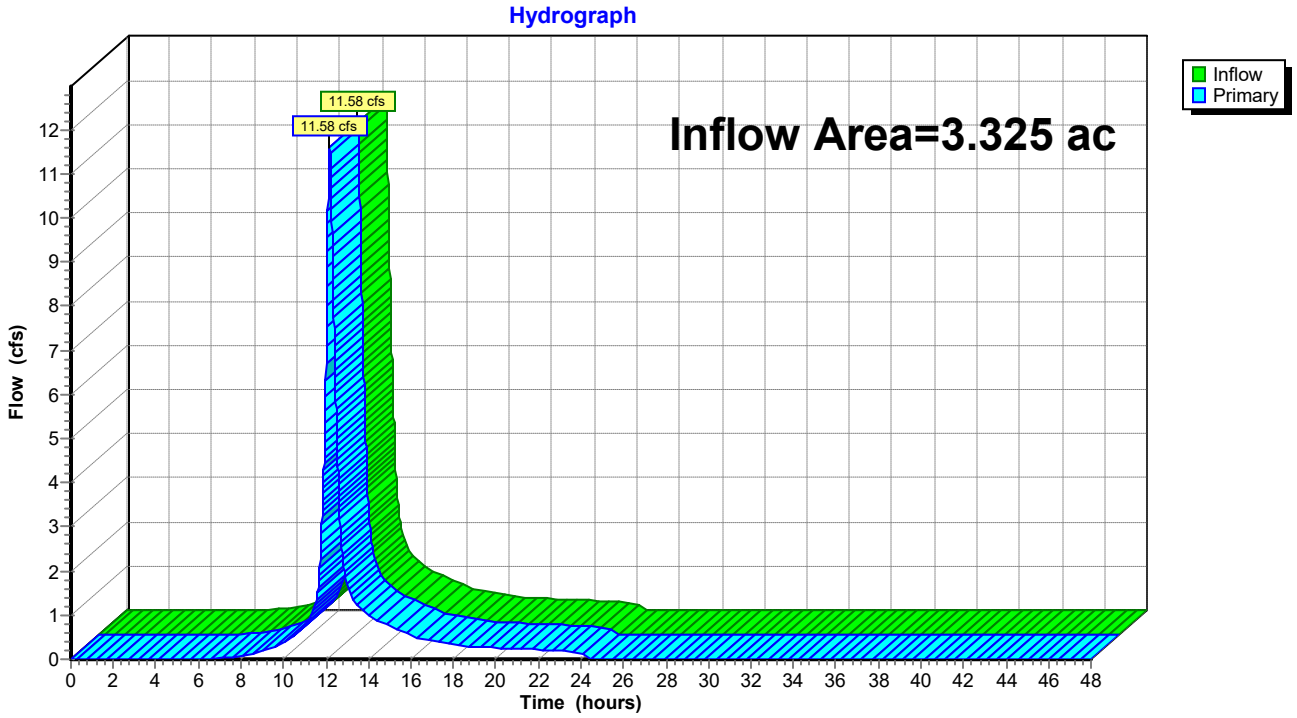
Summary for Pond 4P: Outfall # 4 - Resource Area North Corner

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.325 ac, 3.64% Impervious, Inflow Depth = 4.14" for 25-Year event
Inflow = 11.58 cfs @ 12.18 hrs, Volume= 1.146 af
Primary = 11.58 cfs @ 12.18 hrs, Volume= 1.146 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Pond 4P: Outfall # 4 - Resource Area North Corner



Summary for Pond 5P: (new Pond)

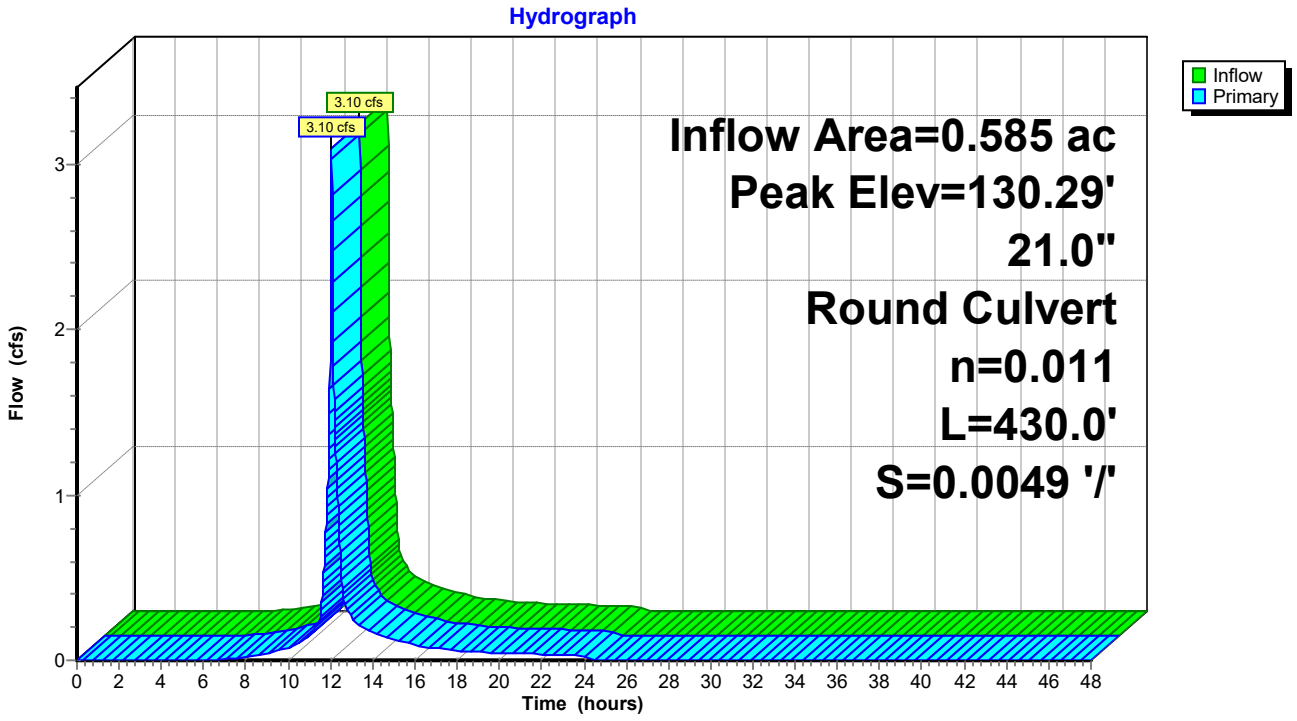
Inflow Area = 0.585 ac, 14.36% Impervious, Inflow Depth = 4.22" for 25-Year event
Inflow = 3.10 cfs @ 12.06 hrs, Volume= 0.206 af
Outflow = 3.10 cfs @ 12.06 hrs, Volume= 0.206 af, Atten= 0%, Lag= 0.0 min
Primary = 3.10 cfs @ 12.06 hrs, Volume= 0.206 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Peak Elev= 130.29' @ 12.06 hrs
Flood Elev= 138.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	129.50'	**21.0" Round Culvert** L= 430.0' RCP, groove end projecting, Ke= 0.200 Inlet / Outlet Invert= 129.50' / 127.39' S= 0.0049 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 2.41 sf

Primary OutFlow Max=3.09 cfs @ 12.06 hrs HW=130.29' (Free Discharge)
1=Culvert (Barrel Controls 3.09 cfs @ 4.33 fps)

Pond 5P: (new Pond)



Time span=0.00-48.00 hrs, dt=0.01 hrs, 4801 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Sub-Catchment 1 Runoff Area=0.967 ac 0.00% Impervious Runoff Depth=5.81"
Flow Length=388' Slope=0.0150 '/' Tc=13.0 min CN=80 Runoff=5.19 cfs 0.468 af

Subcatchment 2S: Sub-Catchment 2 Runoff Area=0.585 ac 14.36% Impervious Runoff Depth=5.93"
Flow Length=128' Tc=3.9 min UI Adjusted CN=81 Runoff=4.30 cfs 0.289 af

Subcatchment 3S: Sub-Catchment 4 Runoff Area=2.740 ac 1.35% Impervious Runoff Depth=5.81"
Flow Length=460' Slope=0.0150 '/' Tc=14.4 min CN=80 Runoff=14.15 cfs 1.327 af

Pond 1P: Outfall # 1 - Resource Area West Inflow=5.19 cfs 0.468 af
Primary=5.19 cfs 0.468 af

Pond 2P: Outfall #2 to CB Peak Elev=136.50' Inflow=4.30 cfs 0.289 af
12.0" Round Culvert n=0.011 L=215.0' S=0.0077 '/' Outflow=4.30 cfs 0.289 af

Pond 4P: Outfall # 4 - Resource Area North Corner Inflow=16.17 cfs 1.616 af
Primary=16.17 cfs 1.616 af

Pond 5P: (new Pond) Peak Elev=130.44' Inflow=4.30 cfs 0.289 af
21.0" Round Culvert n=0.011 L=430.0' S=0.0049 '/' Outflow=4.30 cfs 0.289 af

Total Runoff Area = 4.292 ac Runoff Volume = 2.085 af Average Runoff Depth = 5.83"
97.18% Pervious = 4.171 ac 2.82% Impervious = 0.121 ac

Summary for Subcatchment 1S: Sub-Catchment 1

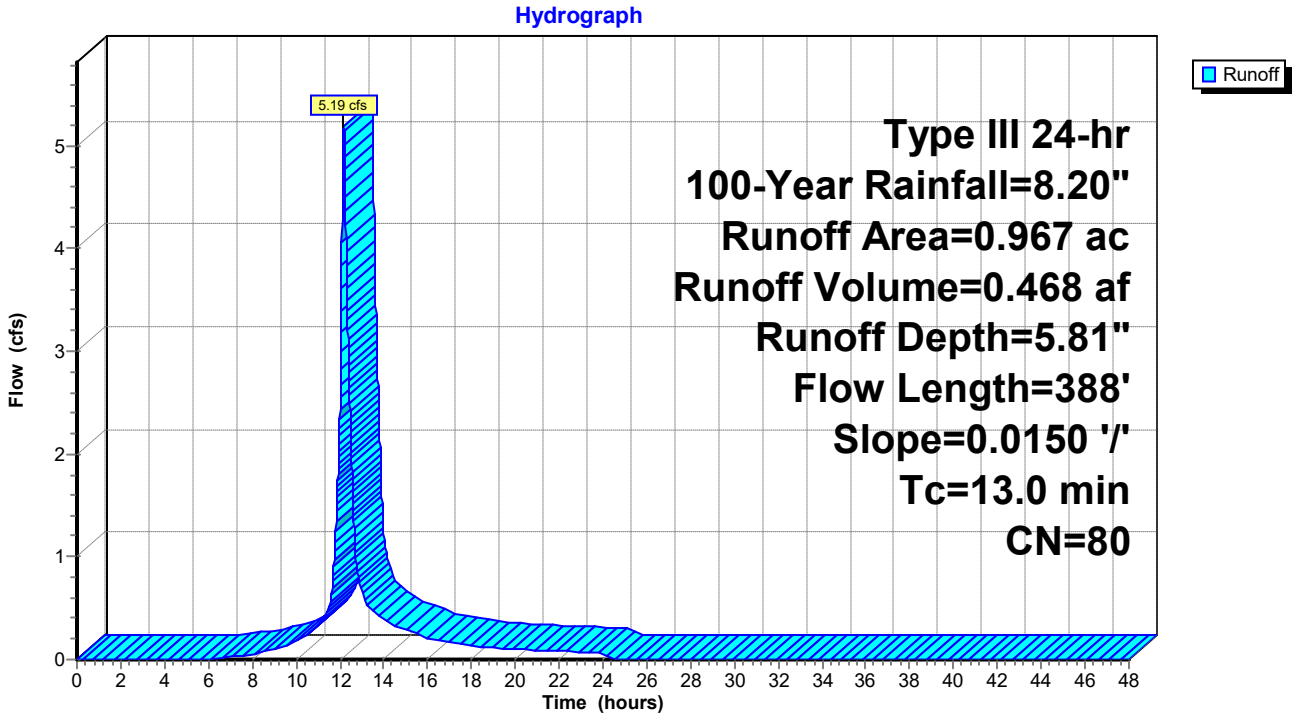
Runoff = 5.19 cfs @ 12.18 hrs, Volume= 0.468 af, Depth= 5.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.20"

Area (ac)	CN	Description
0.967	80	>75% Grass cover, Good, HSG D
0.967		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.4	50	0.0150	0.13		**Sheet Flow, Greass Area** Grass: Short n= 0.150 P2= 3.10"
6.6	338	0.0150	0.86		**Shallow Concentrated Flow, Grass Field** Short Grass Pasture Kv= 7.0 fps
13.0	388	Total			

Subcatchment 1S: Sub-Catchment 1



Summary for Subcatchment 2S: Sub-Catchment 2

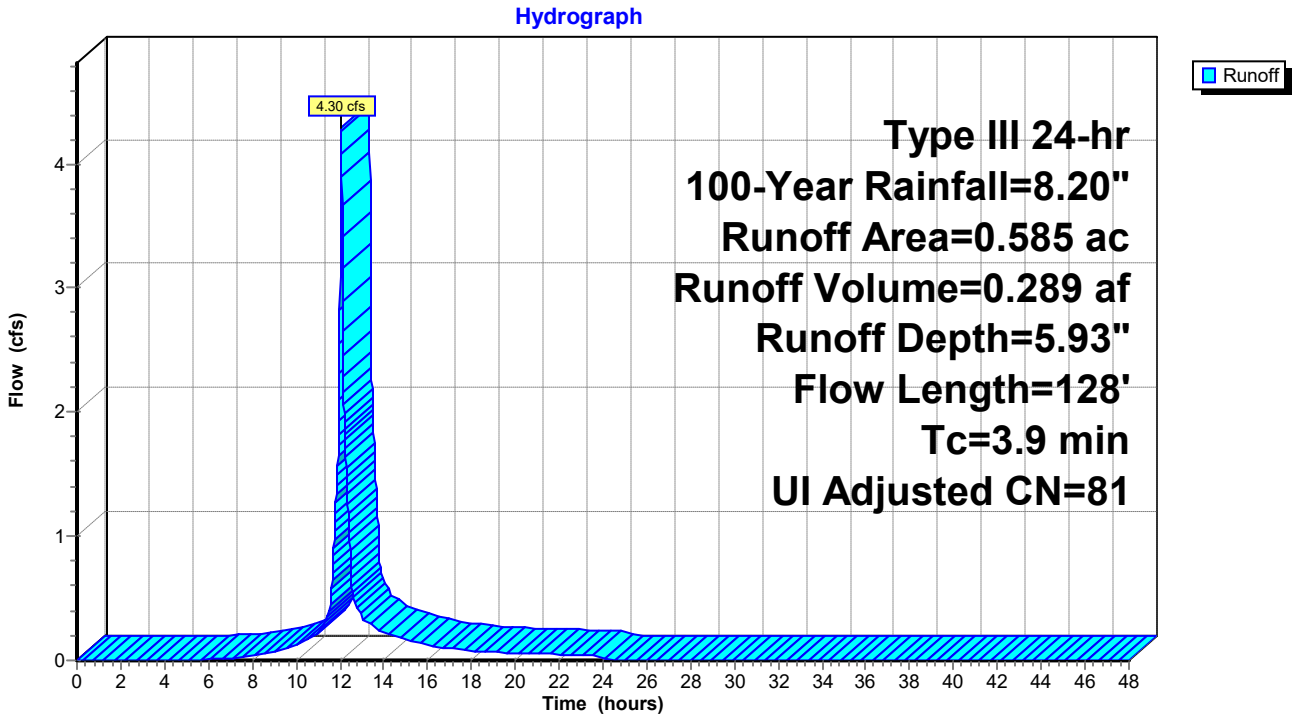
Runoff = 4.30 cfs @ 12.06 hrs, Volume= 0.289 af, Depth= 5.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.20"

Area (ac)	CN	Adj	Description
0.084	98		Unconnected pavement, HSG D
0.501	80		>75% Grass cover, Good, HSG D
0.585	83	81	Weighted Average, UI Adjusted
0.501			85.64% Pervious Area
0.084			14.36% Impervious Area
0.084			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	50	0.0800	0.25		**Sheet Flow, Grass Hill** Grass: Short n= 0.150 P2= 3.10"
0.6	78	0.1000	2.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.9	128	Total			

Subcatchment 2S: Sub-Catchment 2



Summary for Subcatchment 3S: Sub-Catchment 4

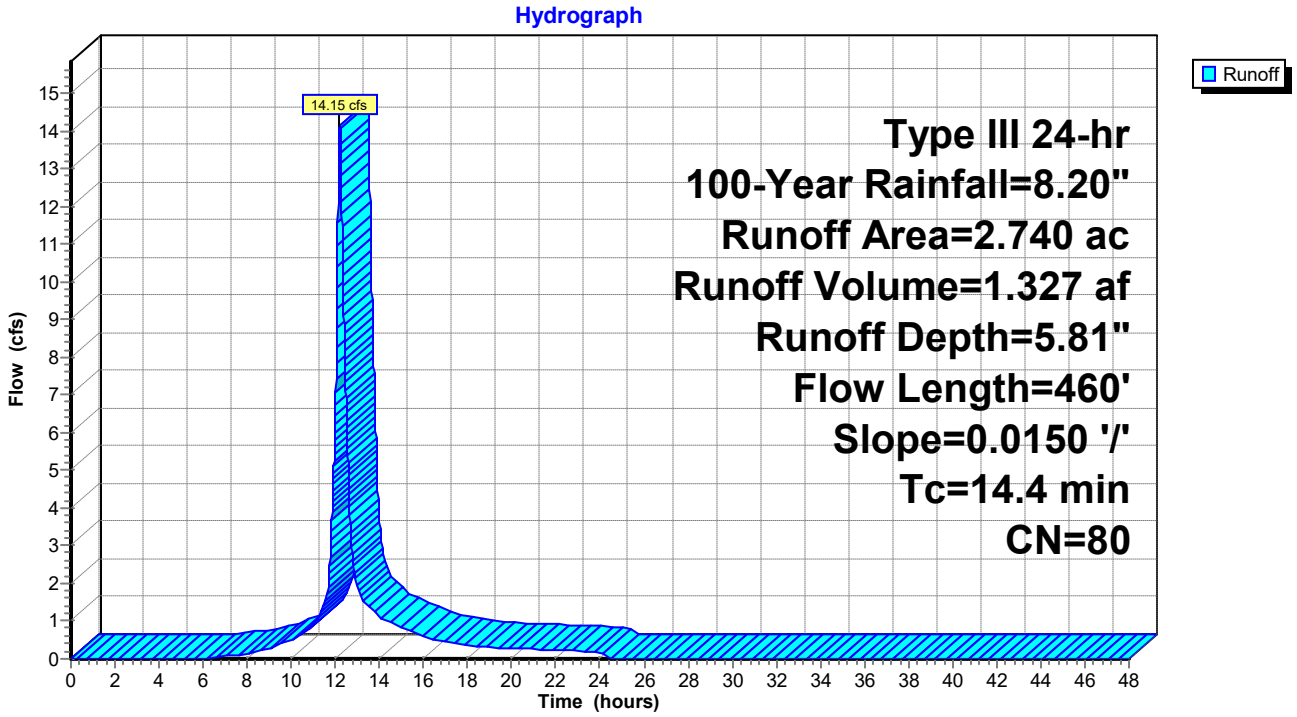
Runoff = 14.15 cfs @ 12.19 hrs, Volume= 1.327 af, Depth= 5.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.20"

Area (ac)	CN	Description
0.037	98	Paved parking, HSG D
2.703	80	>75% Grass cover, Good, HSG D
2.740	80	Weighted Average
2.703		98.65% Pervious Area
0.037		1.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.4	50	0.0150	0.13		**Sheet Flow, Clay Infield** Grass: Short n= 0.150 P2= 3.10"
8.0	410	0.0150	0.86		**Shallow Concentrated Flow, Grass Field** Short Grass Pasture Kv= 7.0 fps
14.4	460	Total			

Subcatchment 3S: Sub-Catchment 4



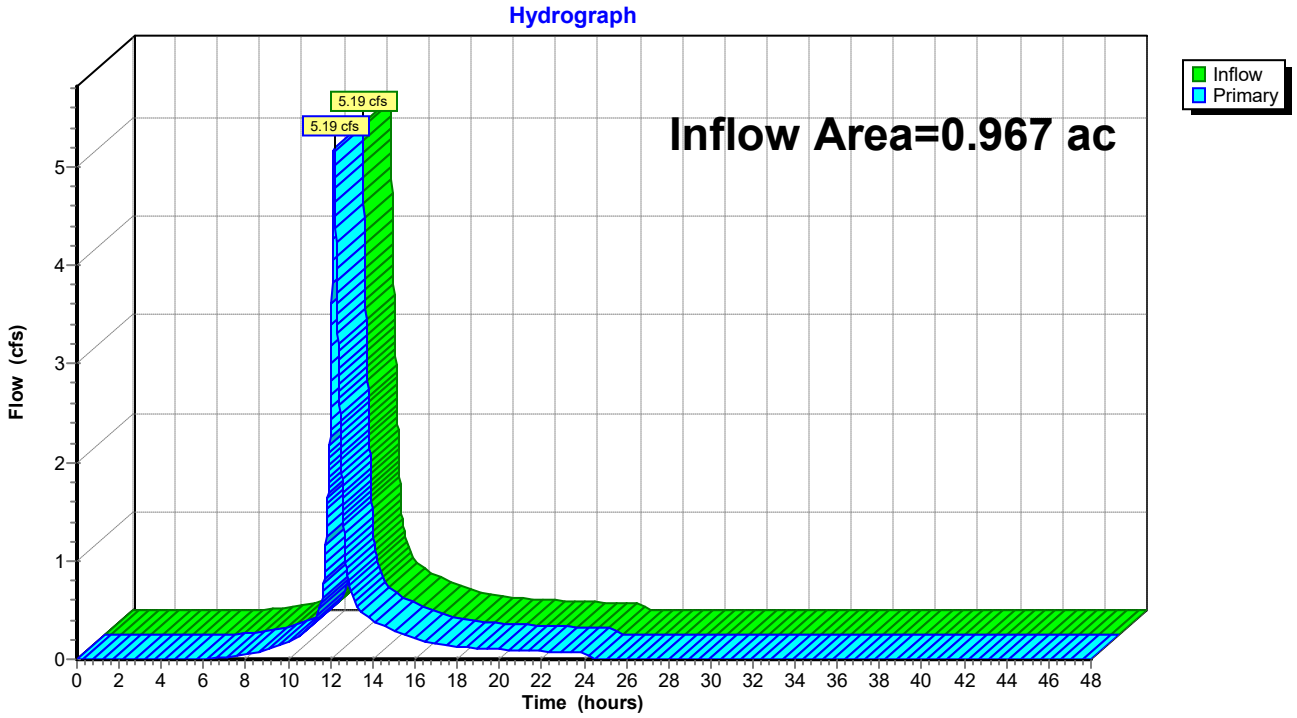
Summary for Pond 1P: Outfall # 1 - Resource Area West

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 0.967 ac, 0.00% Impervious, Inflow Depth = 5.81" for 100-Year event
Inflow = 5.19 cfs @ 12.18 hrs, Volume= 0.468 af
Primary = 5.19 cfs @ 12.18 hrs, Volume= 0.468 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Pond 1P: Outfall # 1 - Resource Area West



Summary for Pond 2P: Outfall #2 to CB

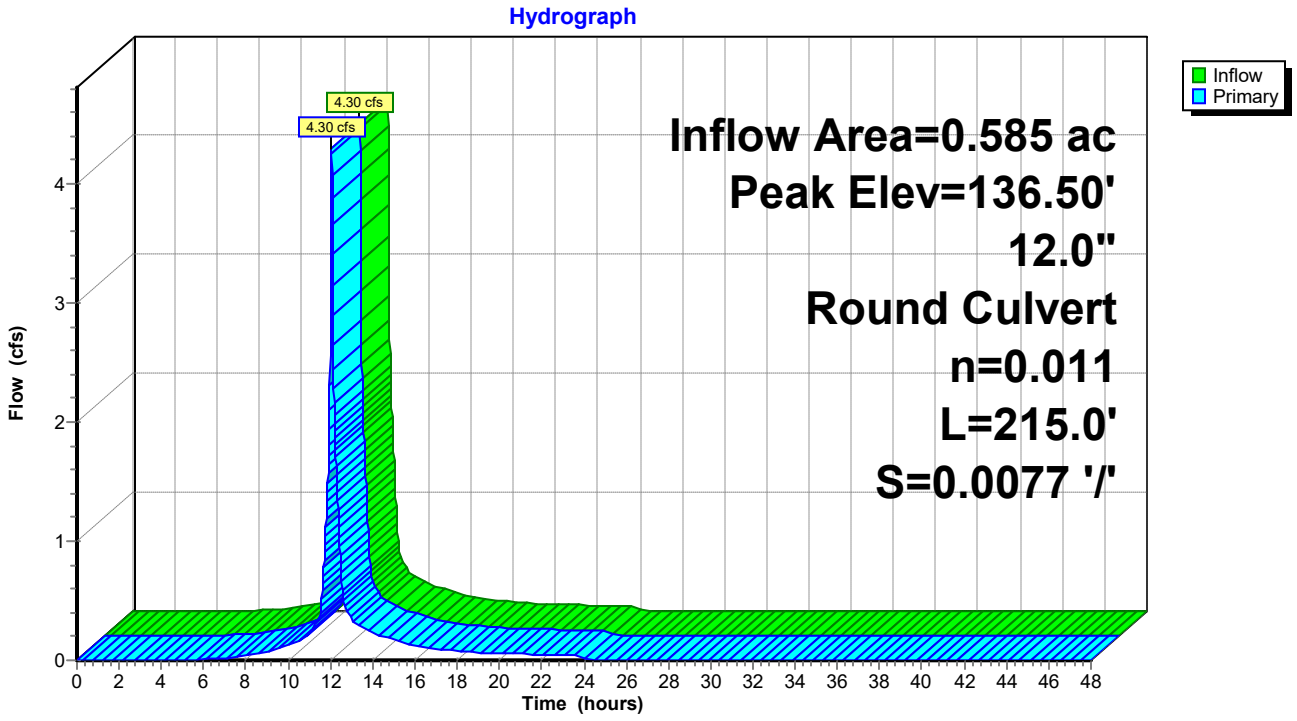
Inflow Area = 0.585 ac, 14.36% Impervious, Inflow Depth = 5.93" for 100-Year event
Inflow = 4.30 cfs @ 12.06 hrs, Volume= 0.289 af
Outflow = 4.30 cfs @ 12.06 hrs, Volume= 0.289 af, Atten= 0%, Lag= 0.0 min
Primary = 4.30 cfs @ 12.06 hrs, Volume= 0.289 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Peak Elev= 136.50' @ 12.06 hrs
Flood Elev= 138.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	134.36'	**12.0" Round Culvert** L= 215.0' RCP, groove end projecting, Ke= 0.200 Inlet / Outlet Invert= 134.36' / 132.70' S= 0.0077 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=4.29 cfs @ 12.06 hrs HW=136.49' (Free Discharge)
1=Culvert (Barrel Controls 4.29 cfs @ 5.46 fps)

Pond 2P: Outfall #2 to CB



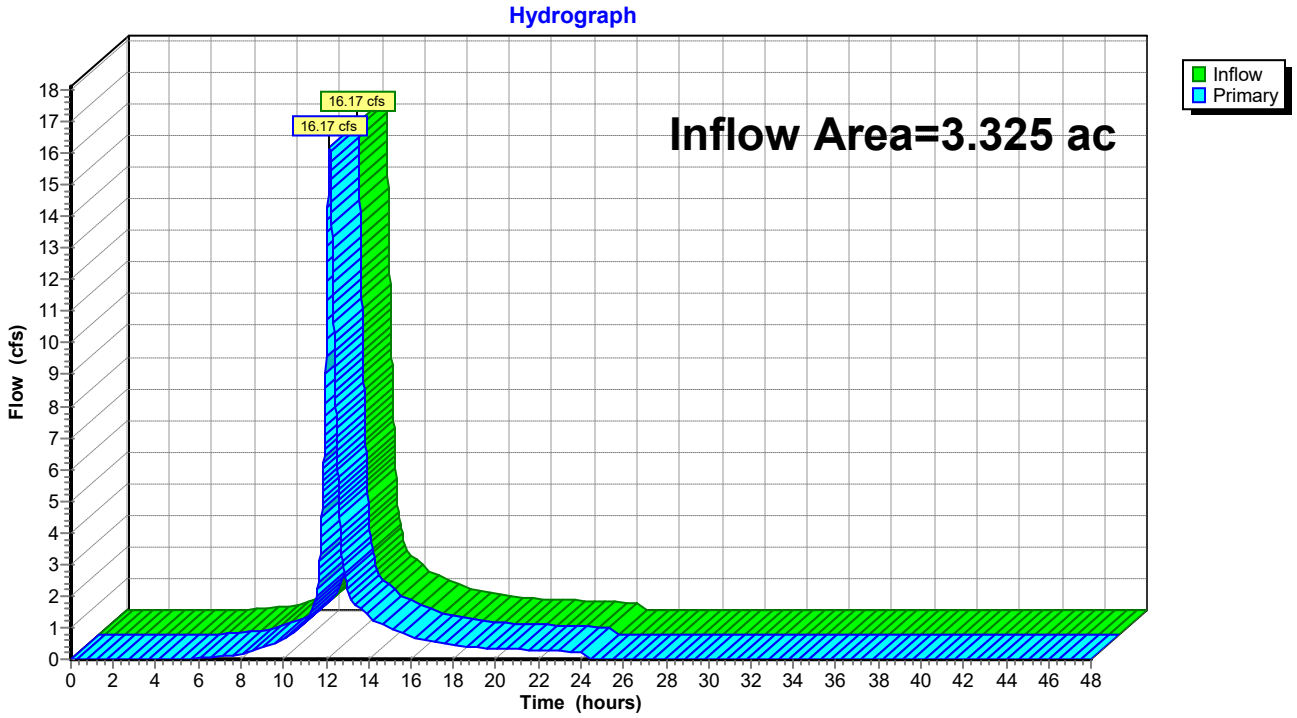
Summary for Pond 4P: Outfall # 4 - Resource Area North Corner

[40] Hint: Not Described (Outflow=Inflow)

Inflow Area = 3.325 ac, 3.64% Impervious, Inflow Depth = 5.83" for 100-Year event
Inflow = 16.17 cfs @ 12.18 hrs, Volume= 1.616 af
Primary = 16.17 cfs @ 12.18 hrs, Volume= 1.616 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Pond 4P: Outfall # 4 - Resource Area North Corner



Summary for Pond 5P: (new Pond)

Inflow Area = 0.585 ac, 14.36% Impervious, Inflow Depth = 5.93" for 100-Year event
Inflow = 4.30 cfs @ 12.06 hrs, Volume= 0.289 af
Outflow = 4.30 cfs @ 12.06 hrs, Volume= 0.289 af, Atten= 0%, Lag= 0.0 min
Primary = 4.30 cfs @ 12.06 hrs, Volume= 0.289 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Peak Elev= 130.44' @ 12.06 hrs
Flood Elev= 138.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	129.50'	**21.0" Round Culvert** L= 430.0' RCP, groove end projecting, Ke= 0.200 Inlet / Outlet Invert= 129.50' / 127.39' S= 0.0049 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 2.41 sf

Primary OutFlow Max=4.29 cfs @ 12.06 hrs HW=130.44' (Free Discharge)
1=Culvert (Barrel Controls 4.29 cfs @ 4.72 fps)

Pond 5P: (new Pond)