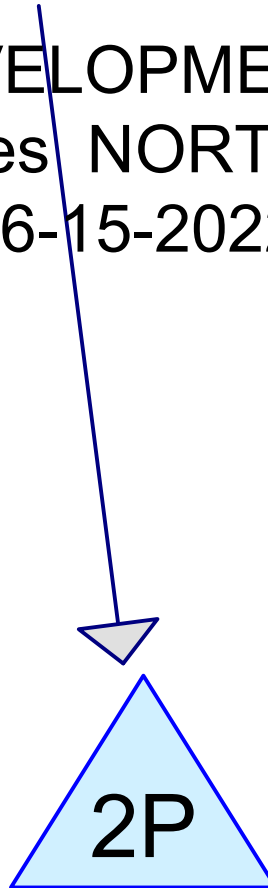
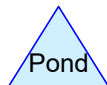
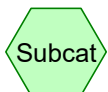


POST DEVELOPMENT
0.20 Acres NORTH
POND 06-15-2022



PROPOSED NORTH
POND



Routing Diagram for POST TENN - PIN NORTH POND 06-15-2022

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.200	79	50-75% Grass cover, Fair, HSG C (1S)
0.200	79	TOTAL AREA

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.200	HSG C	1S
0.000	HSG D	
0.000	Other	
0.200		TOTAL AREA

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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	0.200	0.000	0.000	0.200	50-75% Grass cover, Fair	1S
0.000	0.000	0.200	0.000	0.000	0.200	TOTAL AREA	

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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	720.10	719.90	8.0	0.0250	0.013	15.0	0.0	0.0

POST TENN - PIN NORTH POND 06-15-2022

Type II 24-hr 2 YR Rainfall=3.39"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 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: POST DEVELOPMENT Runoff Area=0.200 ac 0.00% Impervious Runoff Depth>1.36"
Flow Length=600' Tc=4.1 min CN=79 Runoff=0.56 cfs 0.023 af

Pond 2P: PROPOSED NORTH POND Peak Elev=720.45' Storage=199 cf Inflow=0.56 cfs 0.023 af
15.0" Round Culvert n=0.013 L=8.0' S=0.0250 '/ Outflow=0.43 cfs 0.022 af

Total Runoff Area = 0.200 ac Runoff Volume = 0.023 af Average Runoff Depth = 1.36"
100.00% Pervious = 0.200 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1S: POST DEVELOPMENT 0.20 Acres NORTH POND 06-15-2022

POST DEVELOPED CONDITIONS
SOUTH POND

[49] Hint: Tc<2dt may require smaller dt

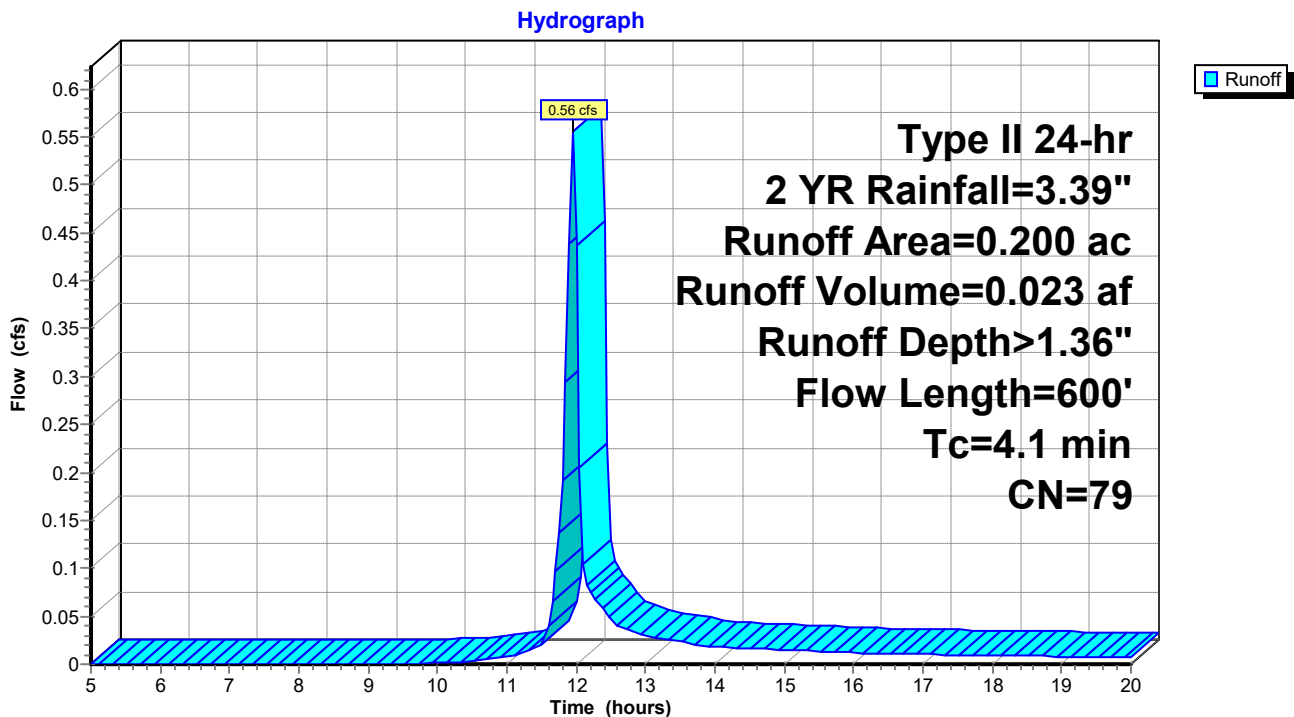
Runoff = 0.56 cfs @ 11.95 hrs, Volume= 0.023 af, Depth> 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2 YR Rainfall=3.39"

Area (ac)	CN	Description
0.200	79	50-75% Grass cover, Fair, HSG C
0.200		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.4	300	0.0300	2.07		Sheet Flow, SHEET FLOW Smooth surfaces n= 0.011 P2= 3.39"
1.7	300	0.0400	3.00		Shallow Concentrated Flow, SHALLOW CONCENTRATED FLOW Grassed Waterway Kv= 15.0 fps
4.1	600	Total			

Subcatchment 1S: POST DEVELOPMENT 0.20 Acres NORTH POND 06-15-2022



Summary for Pond 2P: PROPOSED NORTH POND

18" RCP OUTLET

Inflow Area = 0.200 ac, 0.00% Impervious, Inflow Depth > 1.36" for 2 YR event
 Inflow = 0.56 cfs @ 11.95 hrs, Volume= 0.023 af
 Outflow = 0.43 cfs @ 12.00 hrs, Volume= 0.022 af, Atten= 23%, Lag= 3.2 min
 Primary = 0.43 cfs @ 12.00 hrs, Volume= 0.022 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 720.45' @ 12.00 hrs Surf.Area= 494 sf Storage= 199 cf

Plug-Flow detention time= 23.2 min calculated for 0.022 af (97% of inflow)
 Center-of-Mass det. time= 13.6 min (807.1 - 793.5)

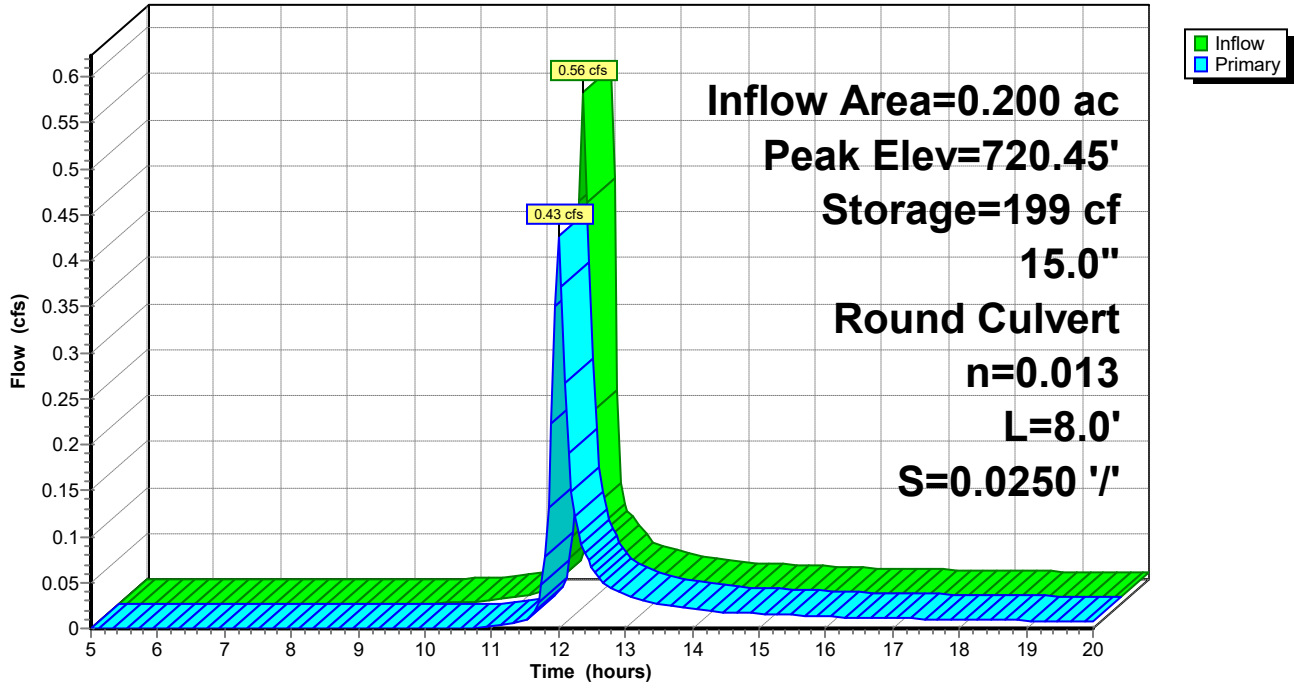
Volume	Invert	Avail.Storage	Storage Description
#1	720.10'	848 cf	Custom Stage Data (Prismatic) Listed below
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
720.10	235	0	0
721.00	900	511	511
721.50	450	338	848

Device	Routing	Invert	Outlet Devices
#1	Primary	720.10'	15.0" Round Culvert L= 8.0' Ke= 1.000 Inlet / Outlet Invert= 720.10' / 719.90' S= 0.0250 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 1.23 sf

Primary OutFlow Max=0.42 cfs @ 12.00 hrs HW=720.45' (Free Discharge)
 ↑1=Culvert (Inlet Controls 0.42 cfs @ 1.51 fps)

Pond 2P: PROPOSED NORTH POND

Hydrograph



POST TENN - PIN NORTH POND 06-15-2022

Type II 24-hr 5 YR Rainfall=4.50"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 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: POST DEVELOPMENT Runoff Area=0.200 ac 0.00% Impervious Runoff Depth>2.19"
Flow Length=600' Tc=4.1 min CN=79 Runoff=0.89 cfs 0.037 af

Pond 2P: PROPOSED NORTH POND Peak Elev=720.57' Storage=266 cf Inflow=0.89 cfs 0.037 af
15.0" Round Culvert n=0.013 L=8.0' S=0.0250 '/ Outflow=0.74 cfs 0.036 af

Total Runoff Area = 0.200 ac Runoff Volume = 0.037 af Average Runoff Depth = 2.19"
100.00% Pervious = 0.200 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1S: POST DEVELOPMENT 0.20 Acres NORTH POND 06-15-2022

POST DEVELOPED CONDITIONS
SOUTH POND

[49] Hint: Tc<2dt may require smaller dt

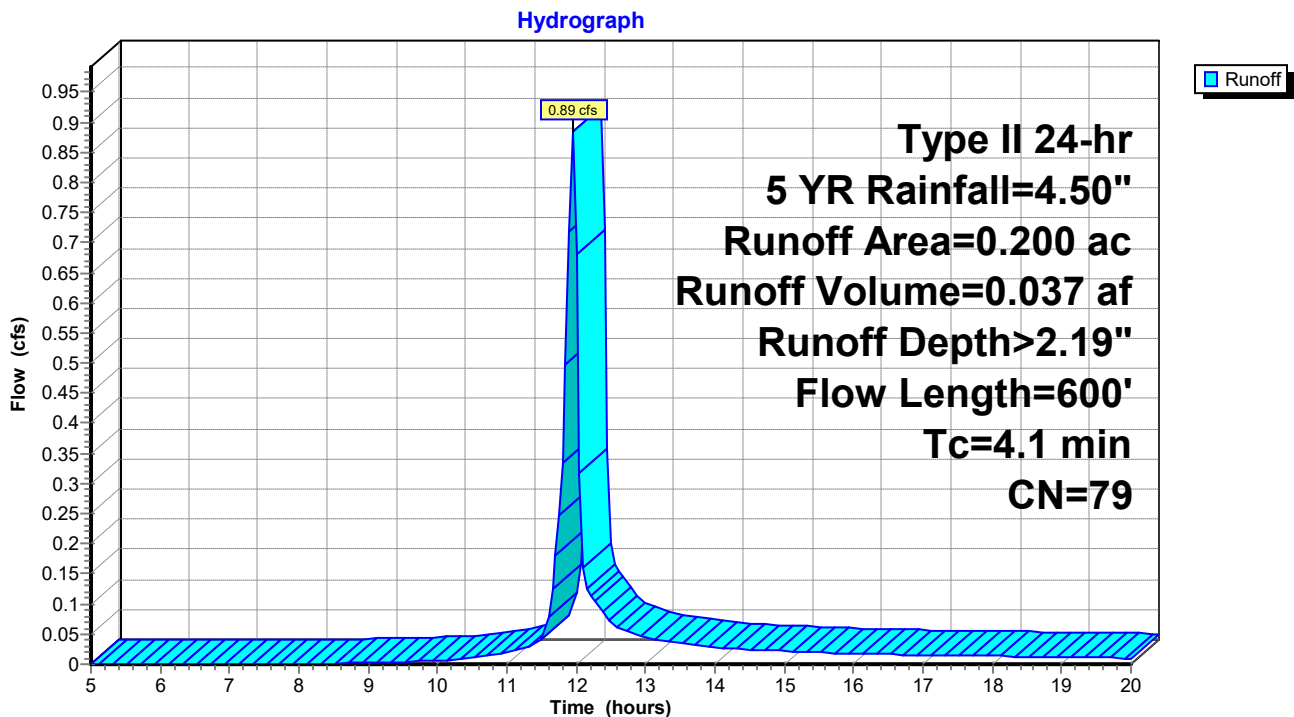
Runoff = 0.89 cfs @ 11.95 hrs, Volume= 0.037 af, Depth> 2.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 5 YR Rainfall=4.50"

Area (ac)	CN	Description
0.200	79	50-75% Grass cover, Fair, HSG C
0.200		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.4	300	0.0300	2.07		Sheet Flow, SHEET FLOW Smooth surfaces n= 0.011 P2= 3.39"
1.7	300	0.0400	3.00		Shallow Concentrated Flow, SHALLOW CONCENTRATED FLOW Grassed Waterway Kv= 15.0 fps
4.1	600	Total			

Subcatchment 1S: POST DEVELOPMENT 0.20 Acres NORTH POND 06-15-2022



Summary for Pond 2P: PROPOSED NORTH POND

18" RCP OUTLET

Inflow Area = 0.200 ac, 0.00% Impervious, Inflow Depth > 2.19" for 5 YR event
 Inflow = 0.89 cfs @ 11.95 hrs, Volume= 0.037 af
 Outflow = 0.74 cfs @ 11.99 hrs, Volume= 0.036 af, Atten= 17%, Lag= 2.7 min
 Primary = 0.74 cfs @ 11.99 hrs, Volume= 0.036 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 720.57' @ 11.99 hrs Surf.Area= 582 sf Storage= 266 cf

Plug-Flow detention time= 19.0 min calculated for 0.036 af (98% of inflow)
 Center-of-Mass det. time= 11.6 min (794.9 - 783.2)

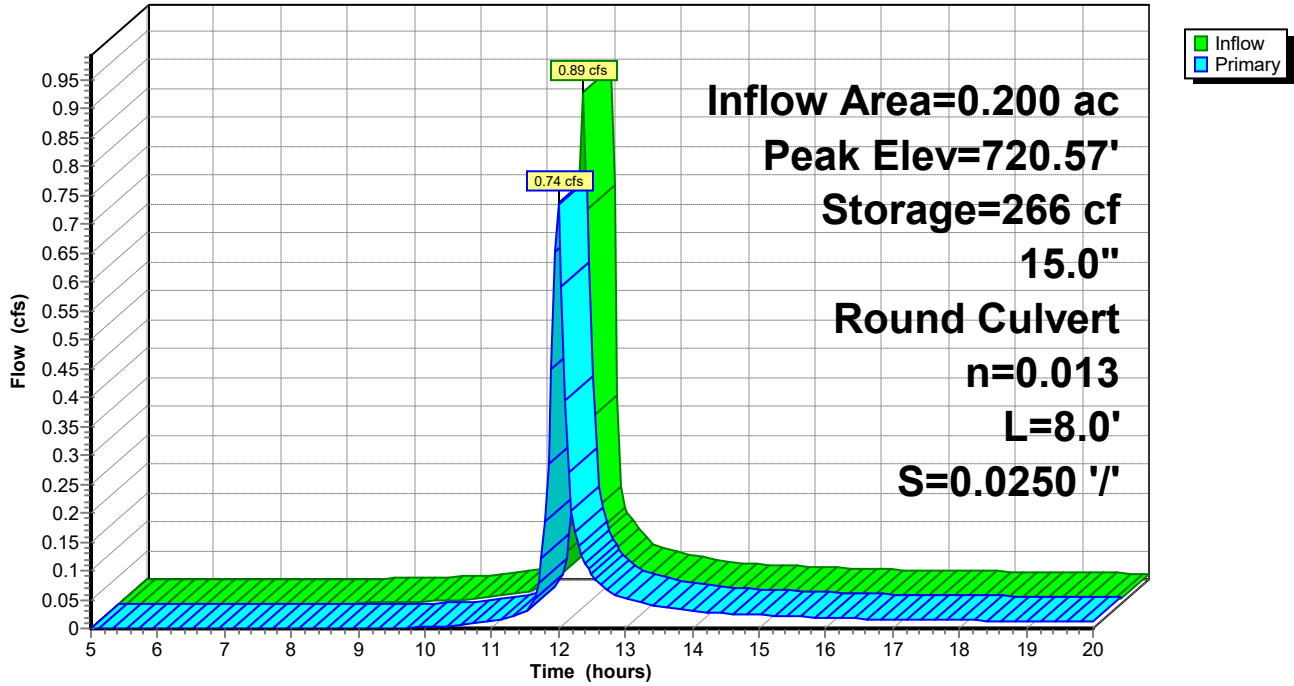
Volume	Invert	Avail.Storage	Storage Description
#1	720.10'	848 cf	Custom Stage Data (Prismatic) Listed below
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
720.10	235	0	0
721.00	900	511	511
721.50	450	338	848

Device	Routing	Invert	Outlet Devices
#1	Primary	720.10'	15.0" Round Culvert L= 8.0' Ke= 1.000 Inlet / Outlet Invert= 720.10' / 719.90' S= 0.0250 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 1.23 sf

Primary OutFlow Max=0.72 cfs @ 11.99 hrs HW=720.56' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.72 cfs @ 1.74 fps)

Pond 2P: PROPOSED NORTH POND

Hydrograph



POST TENN - PIN NORTH POND 06-15-2022

Type II 24-hr 10 YR Rainfall=5.23"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 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: POST DEVELOPMENT Runoff Area=0.200 ac 0.00% Impervious Runoff Depth>2.78"
Flow Length=600' Tc=4.1 min CN=79 Runoff=1.11 cfs 0.046 af

Pond 2P: PROPOSED NORTH POND Peak Elev=720.64' Storage=305 cf Inflow=1.11 cfs 0.046 af
15.0" Round Culvert n=0.013 L=8.0' S=0.0250 '/ Outflow=0.95 cfs 0.046 af

Total Runoff Area = 0.200 ac Runoff Volume = 0.046 af Average Runoff Depth = 2.78"
100.00% Pervious = 0.200 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1S: POST DEVELOPMENT 0.20 Acres NORTH POND 06-15-2022

POST DEVELOPED CONDITIONS
SOUTH POND

[49] Hint: $T_c < 2dt$ may require smaller dt

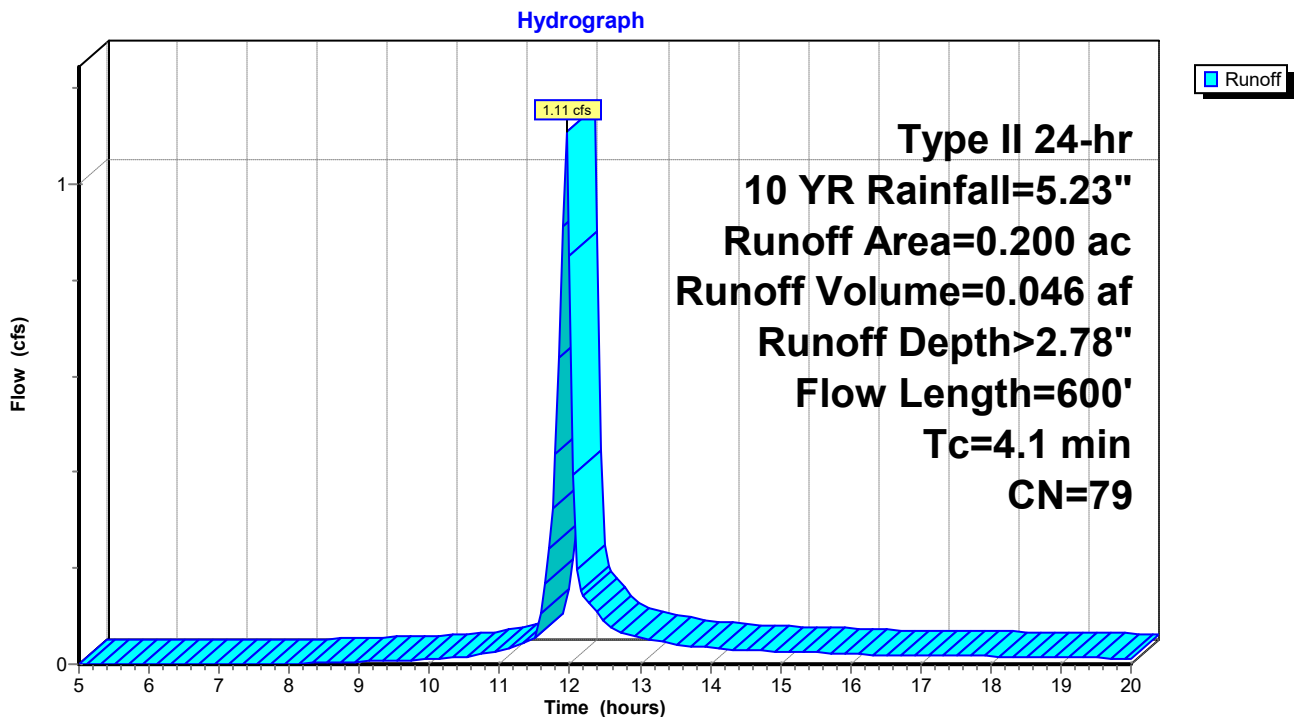
Runoff = 1.11 cfs @ 11.95 hrs, Volume= 0.046 af, Depth> 2.78"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10 YR Rainfall=5.23"

Area (ac)	CN	Description
0.200	79	50-75% Grass cover, Fair, HSG C
0.200		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.4	300	0.0300	2.07		Sheet Flow, SHEET FLOW Smooth surfaces n= 0.011 P2= 3.39"
1.7	300	0.0400	3.00		Shallow Concentrated Flow, SHALLOW CONCENTRATED FLOW Grassed Waterway Kv= 15.0 fps
4.1	600	Total			

Subcatchment 1S: POST DEVELOPMENT 0.20 Acres NORTH POND 06-15-2022



Summary for Pond 2P: PROPOSED NORTH POND

18" RCP OUTLET

Inflow Area = 0.200 ac, 0.00% Impervious, Inflow Depth > 2.78" for 10 YR event
 Inflow = 1.11 cfs @ 11.95 hrs, Volume= 0.046 af
 Outflow = 0.95 cfs @ 11.99 hrs, Volume= 0.046 af, Atten= 15%, Lag= 2.5 min
 Primary = 0.95 cfs @ 11.99 hrs, Volume= 0.046 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 720.64' @ 11.99 hrs Surf.Area= 633 sf Storage= 305 cf

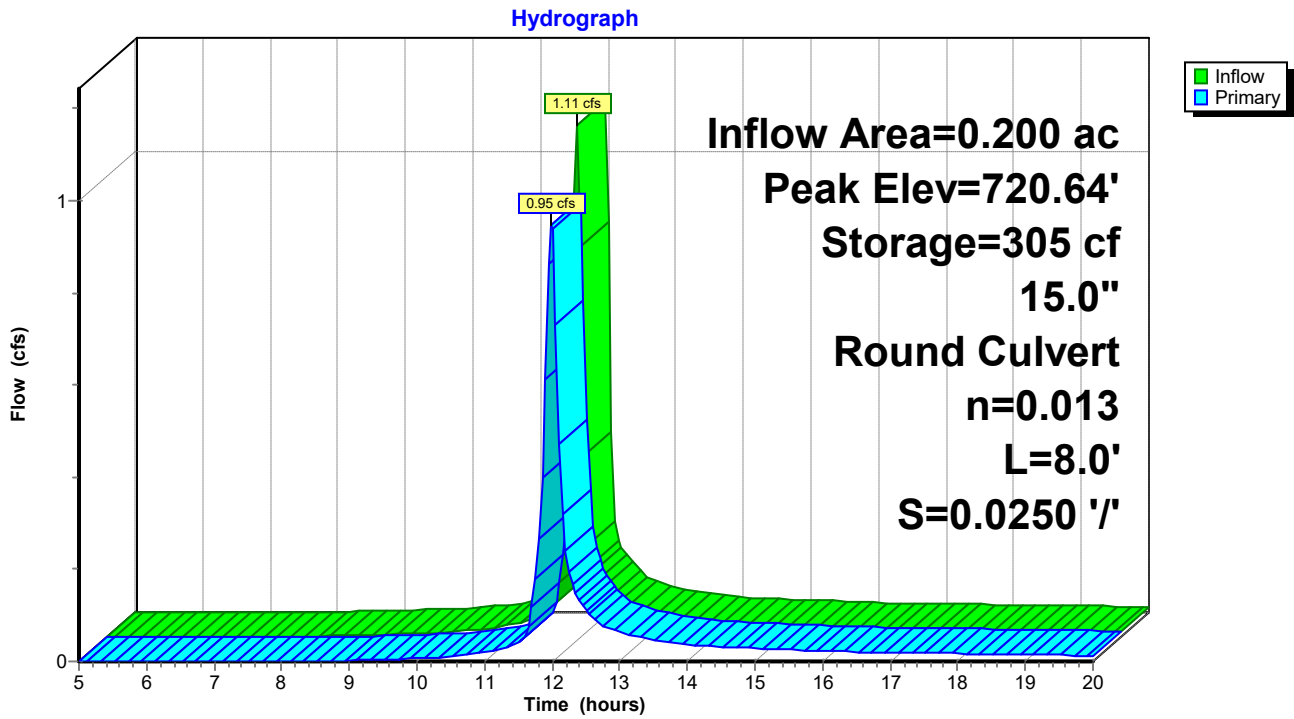
Plug-Flow detention time= 17.4 min calculated for 0.046 af (98% of inflow)
 Center-of-Mass det. time= 10.9 min (788.9 - 778.1)

Volume	Invert	Avail.Storage	Storage Description
#1	720.10'	848 cf	Custom Stage Data (Prismatic) Listed below
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
720.10	235	0	0
721.00	900	511	511
721.50	450	338	848

Device	Routing	Invert	Outlet Devices
#1	Primary	720.10'	15.0" Round Culvert L= 8.0' Ke= 1.000 Inlet / Outlet Invert= 720.10' / 719.90' S= 0.0250 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 1.23 sf

Primary OutFlow Max=0.92 cfs @ 11.99 hrs HW=720.63' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 0.92 cfs @ 1.86 fps)

Pond 2P: PROPOSED NORTH POND



POST TENN - PIN NORTH POND 06-15-2022

Type II 24-hr 25 YR Rainfall=6.16"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 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: POST DEVELOPMENT Runoff Area=0.200 ac 0.00% Impervious Runoff Depth>3.56"
Flow Length=600' Tc=4.1 min CN=79 Runoff=1.40 cfs 0.059 af

Pond 2P: PROPOSED NORTH POND Peak Elev=720.72' Storage=352 cf Inflow=1.40 cfs 0.059 af
15.0" Round Culvert n=0.013 L=8.0' S=0.0250 '/ Outflow=1.22 cfs 0.058 af

Total Runoff Area = 0.200 ac Runoff Volume = 0.059 af Average Runoff Depth = 3.56"
100.00% Pervious = 0.200 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1S: POST DEVELOPMENT 0.20 Acres NORTH POND 06-15-2022

POST DEVELOPED CONDITIONS
SOUTH POND

[49] Hint: Tc<2dt may require smaller dt

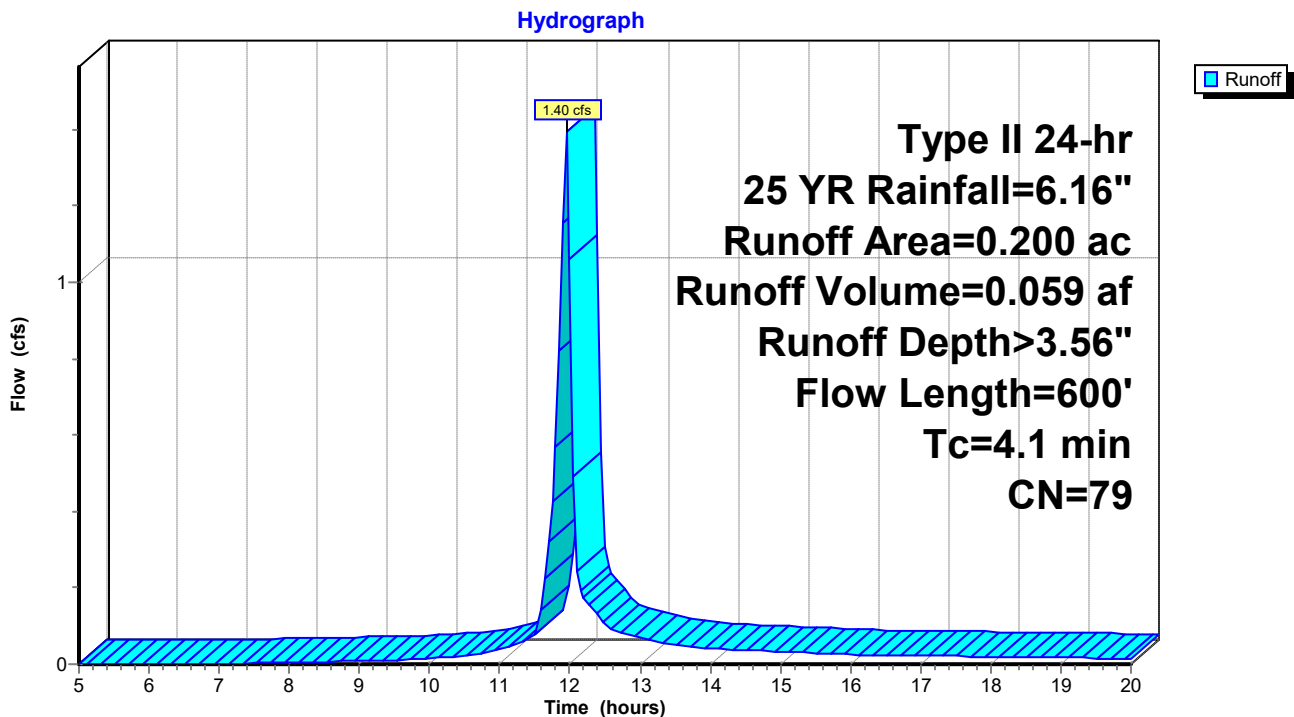
Runoff = 1.40 cfs @ 11.95 hrs, Volume= 0.059 af, Depth> 3.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 25 YR Rainfall=6.16"

Area (ac)	CN	Description
0.200	79	50-75% Grass cover, Fair, HSG C
0.200		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.4	300	0.0300	2.07		Sheet Flow, SHEET FLOW Smooth surfaces n= 0.011 P2= 3.39"
1.7	300	0.0400	3.00		Shallow Concentrated Flow, SHALLOW CONCENTRATED FLOW Grassed Waterway Kv= 15.0 fps
4.1	600	Total			

Subcatchment 1S: POST DEVELOPMENT 0.20 Acres NORTH POND 06-15-2022



Summary for Pond 2P: PROPOSED NORTH POND

18" RCP OUTLET

Inflow Area = 0.200 ac, 0.00% Impervious, Inflow Depth > 3.56" for 25 YR event
 Inflow = 1.40 cfs @ 11.95 hrs, Volume= 0.059 af
 Outflow = 1.22 cfs @ 11.98 hrs, Volume= 0.058 af, Atten= 13%, Lag= 2.3 min
 Primary = 1.22 cfs @ 11.98 hrs, Volume= 0.058 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 720.72' @ 11.98 hrs Surf.Area= 693 sf Storage= 352 cf

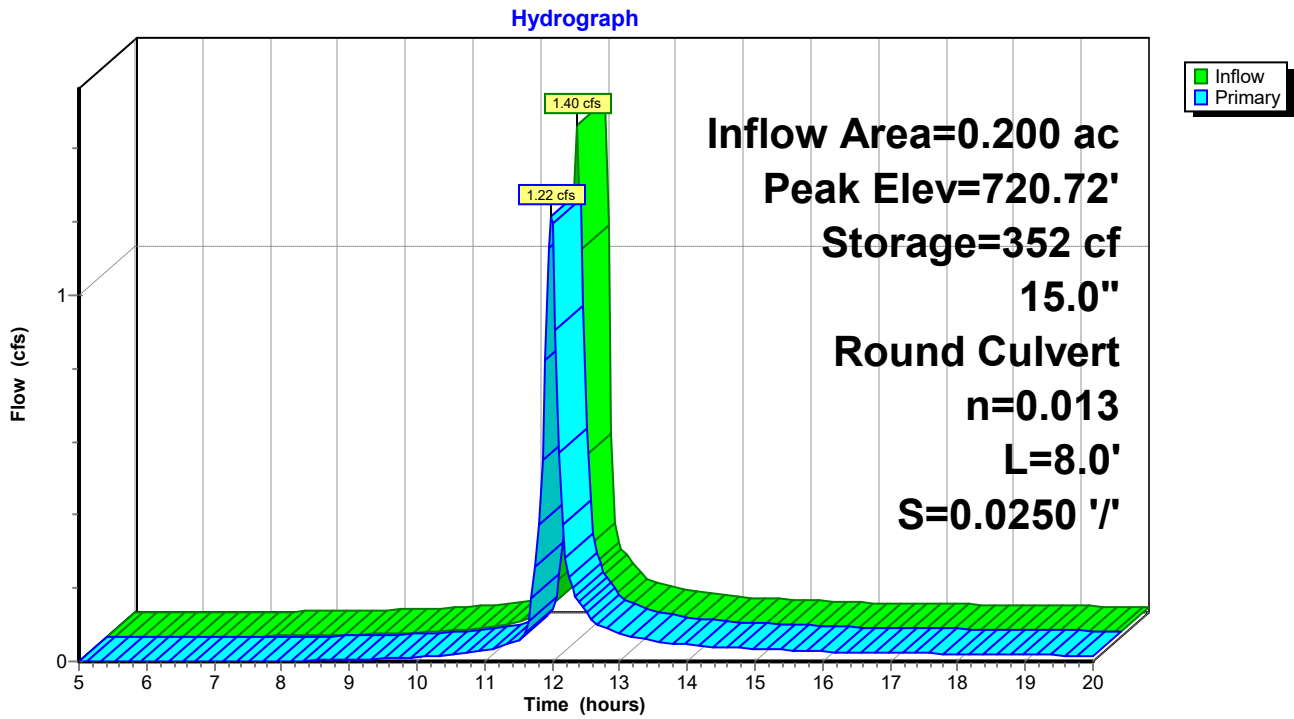
Plug-Flow detention time= 15.7 min calculated for 0.058 af (98% of inflow)
 Center-of-Mass det. time= 10.1 min (782.7 - 772.6)

Volume	Invert	Avail.Storage	Storage Description
#1	720.10'	848 cf	Custom Stage Data (Prismatic) Listed below
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
720.10	235	0	0
721.00	900	511	511
721.50	450	338	848

Device	Routing	Invert	Outlet Devices
#1	Primary	720.10'	15.0" Round Culvert L= 8.0' Ke= 1.000 Inlet / Outlet Invert= 720.10' / 719.90' S= 0.0250 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 1.23 sf

Primary OutFlow Max=1.18 cfs @ 11.98 hrs HW=720.71' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.18 cfs @ 1.99 fps)

Pond 2P: PROPOSED NORTH POND



POST TENN - PIN NORTH POND 06-15-2022

Type II 24-hr 50 YR Rainfall=6.85"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 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: POST DEVELOPMENT Runoff Area=0.200 ac 0.00% Impervious Runoff Depth>4.15"
Flow Length=600' Tc=4.1 min CN=79 Runoff=1.62 cfs 0.069 af

Pond 2P: PROPOSED NORTH POND Peak Elev=720.78' Storage=384 cf Inflow=1.62 cfs 0.069 af
15.0" Round Culvert n=0.013 L=8.0' S=0.0250 '/ Outflow=1.42 cfs 0.068 af

Total Runoff Area = 0.200 ac Runoff Volume = 0.069 af Average Runoff Depth = 4.15"
100.00% Pervious = 0.200 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1S: POST DEVELOPMENT 0.20 Acres NORTH POND 06-15-2022

POST DEVELOPED CONDITIONS
SOUTH POND

[49] Hint: $T_c < 2dt$ may require smaller dt

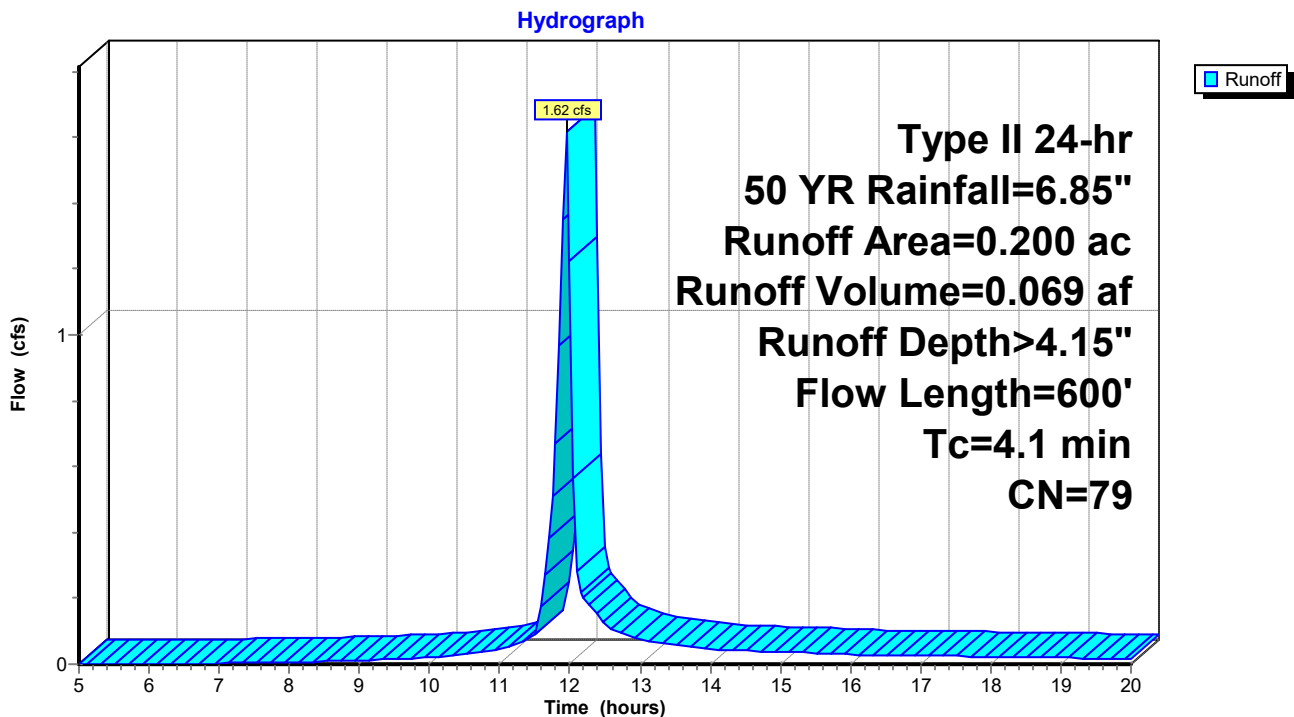
Runoff = 1.62 cfs @ 11.95 hrs, Volume= 0.069 af, Depth> 4.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 50 YR Rainfall=6.85"

Area (ac)	CN	Description
0.200	79	50-75% Grass cover, Fair, HSG C
0.200		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.4	300	0.0300	2.07		Sheet Flow, SHEET FLOW Smooth surfaces n= 0.011 P2= 3.39"
1.7	300	0.0400	3.00		Shallow Concentrated Flow, SHALLOW CONCENTRATED FLOW Grassed Waterway Kv= 15.0 fps
4.1	600	Total			

Subcatchment 1S: POST DEVELOPMENT 0.20 Acres NORTH POND 06-15-2022



Summary for Pond 2P: PROPOSED NORTH POND

18" RCP OUTLET

Inflow Area = 0.200 ac, 0.00% Impervious, Inflow Depth > 4.15" for 50 YR event
 Inflow = 1.62 cfs @ 11.95 hrs, Volume= 0.069 af
 Outflow = 1.42 cfs @ 11.98 hrs, Volume= 0.068 af, Atten= 12%, Lag= 2.2 min
 Primary = 1.42 cfs @ 11.98 hrs, Volume= 0.068 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 720.78' @ 11.98 hrs Surf.Area= 735 sf Storage= 384 cf

Plug-Flow detention time= 14.9 min calculated for 0.068 af (99% of inflow)
 Center-of-Mass det. time= 9.6 min (778.7 - 769.1)

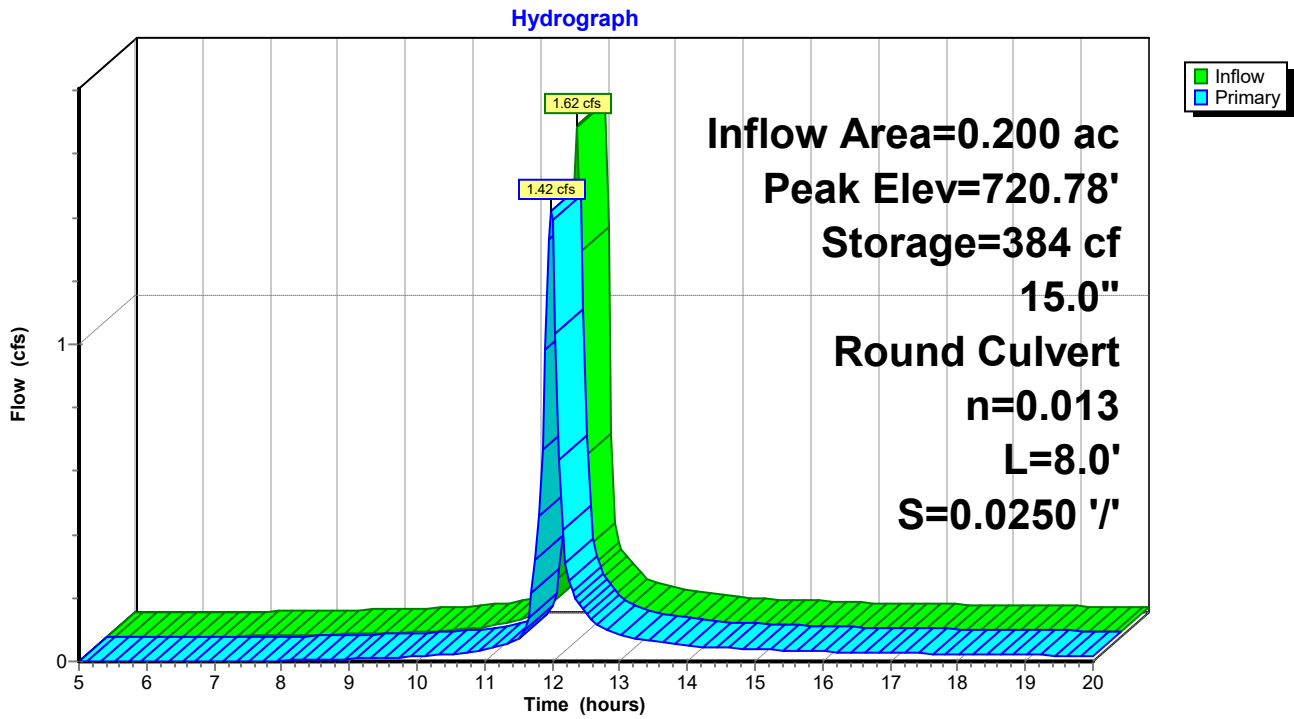
Volume	Invert	Avail.Storage	Storage Description
#1	720.10'	848 cf	Custom Stage Data (Prismatic) Listed below

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
720.10	235	0	0
721.00	900	511	511
721.50	450	338	848

Device	Routing	Invert	Outlet Devices
#1	Primary	720.10'	15.0" Round Culvert L= 8.0' Ke= 1.000 Inlet / Outlet Invert= 720.10' / 719.90' S= 0.0250 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 1.23 sf

Primary OutFlow Max=1.37 cfs @ 11.98 hrs HW=720.76' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.37 cfs @ 2.08 fps)

Pond 2P: PROPOSED NORTH POND



POST TENN - PIN NORTH POND 06-15-2022

Type II 24-hr 100 YR Rainfall=7.53"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 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: POST DEVELOPMENT Runoff Area=0.200 ac 0.00% Impervious Runoff Depth=4.74"
Flow Length=600' Tc=4.1 min CN=79 Runoff=1.83 cfs 0.079 af

Pond 2P: PROPOSED NORTH POND Peak Elev=720.83' Storage=414 cf Inflow=1.83 cfs 0.079 af
15.0" Round Culvert n=0.013 L=8.0' S=0.0250 '/ Outflow=1.62 cfs 0.078 af

Total Runoff Area = 0.200 ac Runoff Volume = 0.079 af Average Runoff Depth = 4.74"
100.00% Pervious = 0.200 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1S: POST DEVELOPMENT 0.20 Acres NORTH POND 06-15-2022

POST DEVELOPED CONDITIONS
SOUTH POND

[49] Hint: $T_c < 2dt$ may require smaller dt

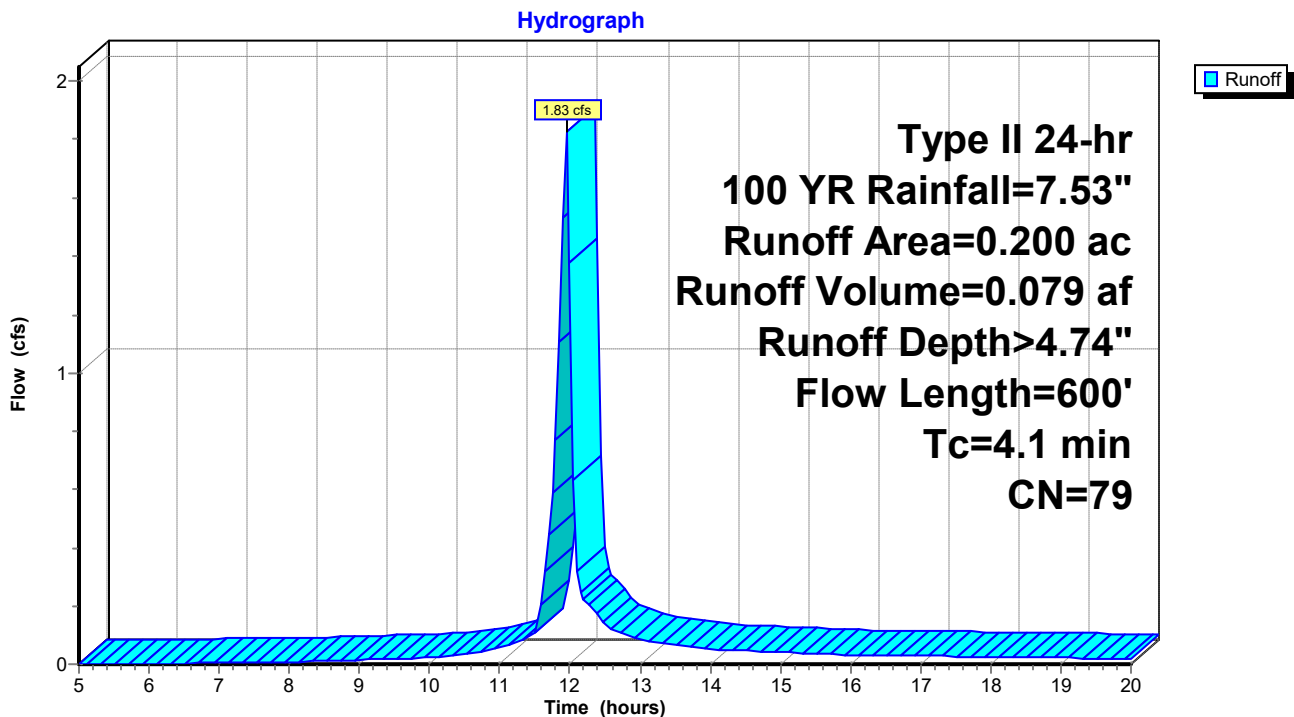
Runoff = 1.83 cfs @ 11.94 hrs, Volume= 0.079 af, Depth> 4.74"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100 YR Rainfall=7.53"

Area (ac)	CN	Description
0.200	79	50-75% Grass cover, Fair, HSG C
0.200		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.4	300	0.0300	2.07		Sheet Flow, SHEET FLOW Smooth surfaces n= 0.011 P2= 3.39"
1.7	300	0.0400	3.00		Shallow Concentrated Flow, SHALLOW CONCENTRATED FLOW Grassed Waterway Kv= 15.0 fps
4.1	600	Total			

Subcatchment 1S: POST DEVELOPMENT 0.20 Acres NORTH POND 06-15-2022



Summary for Pond 2P: PROPOSED NORTH POND

18" RCP OUTLET

Inflow Area = 0.200 ac, 0.00% Impervious, Inflow Depth > 4.74" for 100 YR event
 Inflow = 1.83 cfs @ 11.94 hrs, Volume= 0.079 af
 Outflow = 1.62 cfs @ 11.98 hrs, Volume= 0.078 af, Atten= 11%, Lag= 2.1 min
 Primary = 1.62 cfs @ 11.98 hrs, Volume= 0.078 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Peak Elev= 720.83' @ 11.98 hrs Surf.Area= 774 sf Storage= 414 cf

Plug-Flow detention time= 14.1 min calculated for 0.078 af (98% of inflow)
 Center-of-Mass det. time= 9.3 min (775.3 - 766.0)

Volume	Invert	Avail.Storage	Storage Description
#1	720.10'	848 cf	Custom Stage Data (Prismatic) Listed below
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
720.10	235	0	0
721.00	900	511	511
721.50	450	338	848

Device	Routing	Invert	Outlet Devices
#1	Primary	720.10'	15.0" Round Culvert L= 8.0' Ke= 1.000 Inlet / Outlet Invert= 720.10' / 719.90' S= 0.0250 '/' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 1.23 sf

Primary OutFlow Max=1.56 cfs @ 11.98 hrs HW=720.81' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.56 cfs @ 2.16 fps)

Pond 2P: PROPOSED NORTH POND

