

Routing Diagram for 5064000-Post
 Prepared by BSC Group, Printed 1/9/2023
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5064000-Post

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Summary for Subcatchment 1S: Building Roof (Addition)

Runoff = 0.09 cfs @ 12.08 hrs, Volume= 0.007 af, Depth= 3.37"
 Routed to Pond 1P : 600 Gal. Leaching Pit

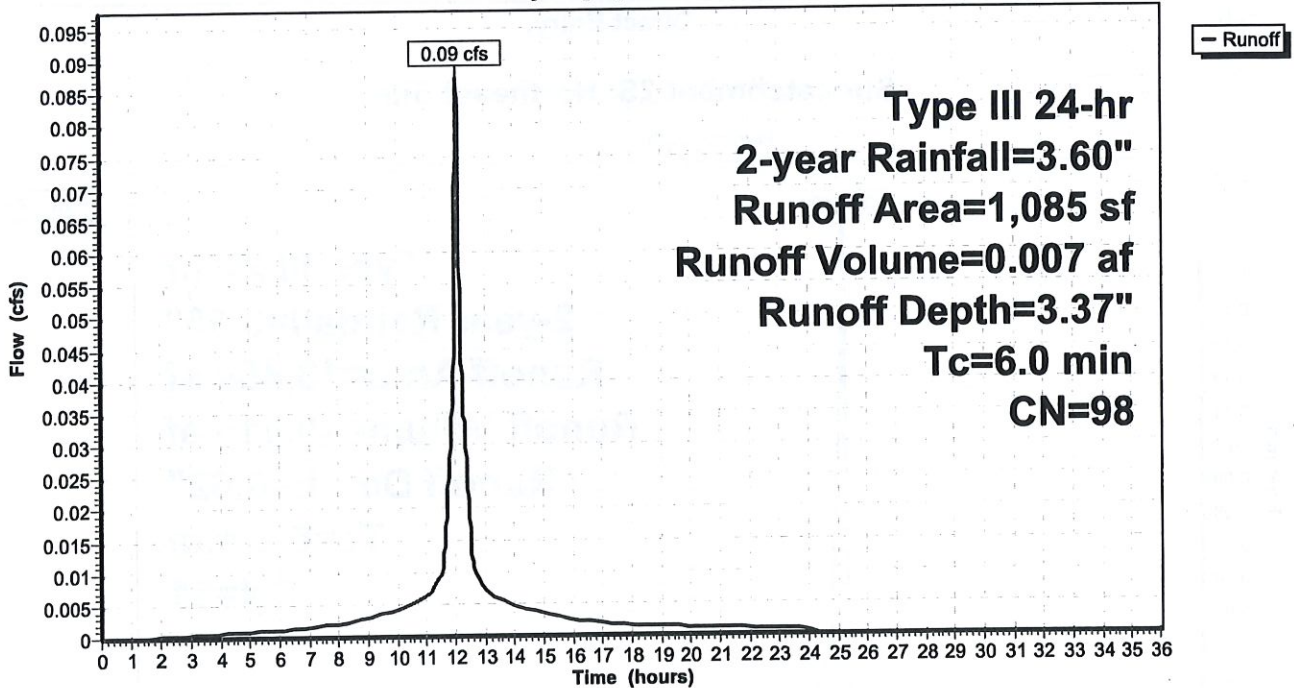
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
 Type III 24-hr 2-year Rainfall=3.60"

Area (sf)	CN	Description
1,085	98	Roofs, HSG A
1,085		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment 1S: Building Roof (Addition)

Hydrograph



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Summary for Subcatchment 3S: LCB Tributary Area

Runoff = 0.57 cfs @ 12.09 hrs, Volume= 0.041 af, Depth= 2.36"
 Routed to Pond 3P : Infiltration System #1

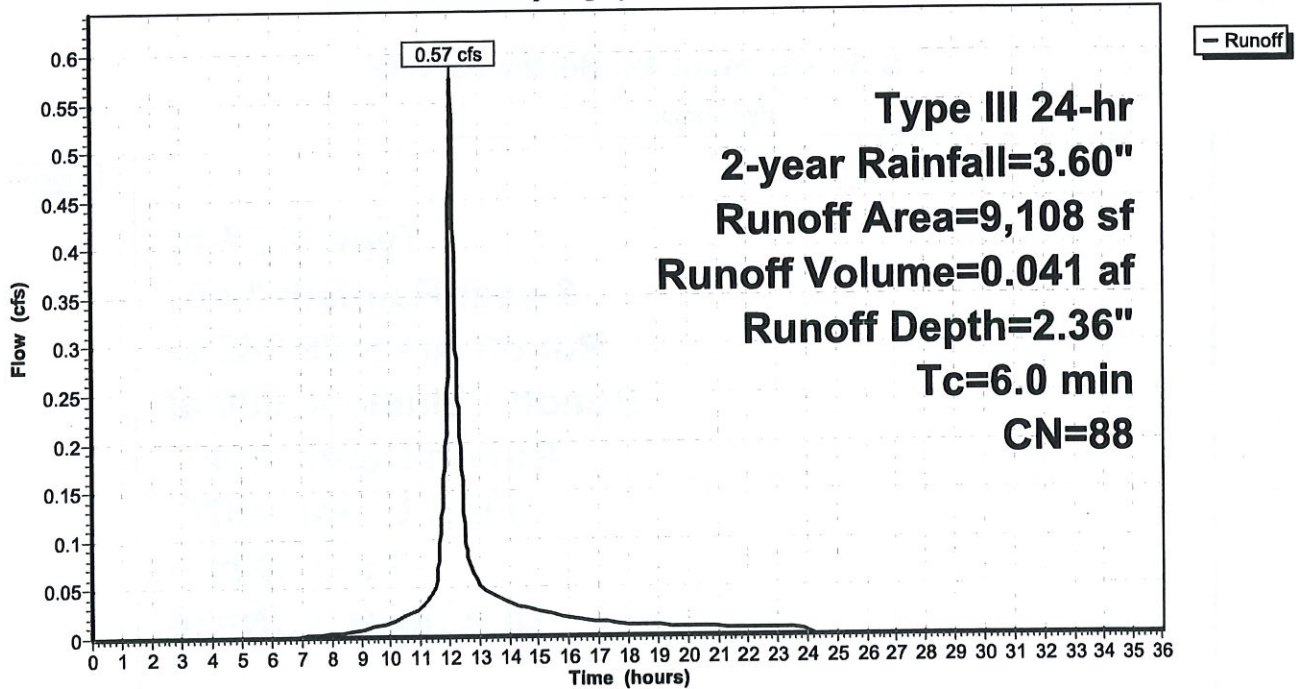
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
 Type III 24-hr 2-year Rainfall=3.60"

Area (sf)	CN	Description
7,690	98	Unconnected roofs, HSG A
892	39	>75% Grass cover, Good, HSG A
526	30	Woods, Good, HSG A
9,108	88	Weighted Average
1,418		15.57% Pervious Area
7,690		84.43% Impervious Area
7,690		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment 3S: LCB Tributary Area

Hydrograph



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Summary for Subcatchment 5S: Southwest Site

Runoff = 0.23 cfs @ 12.20 hrs, Volume= 0.027 af, Depth= 0.62"
 Routed to Pond 5P : Infiltration System #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
 Type III 24-hr 2-year Rainfall=3.60"

Area (sf)	CN	Description
5,015	30	Woods, Good, HSG A
8,655	39	>75% Grass cover, Good, HSG A
9,064	98	Unconnected roofs, HSG A
22,734	61	Weighted Average
13,670		60.13% Pervious Area
9,064		39.87% Impervious Area
9,064		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.0240	0.08		Sheet Flow, A-B Woods: Light underbrush n= 0.400 P2= 3.60"
0.5	52	0.0115	1.73		Shallow Concentrated Flow, B-C Unpaved Kv= 16.1 fps
0.4	35	0.0063	1.61		Shallow Concentrated Flow, C-D Paved Kv= 20.3 fps
11.7	137	Total			

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30 Earle Road, Harwich
Type III 24-hr 2-year Rainfall=3.60"

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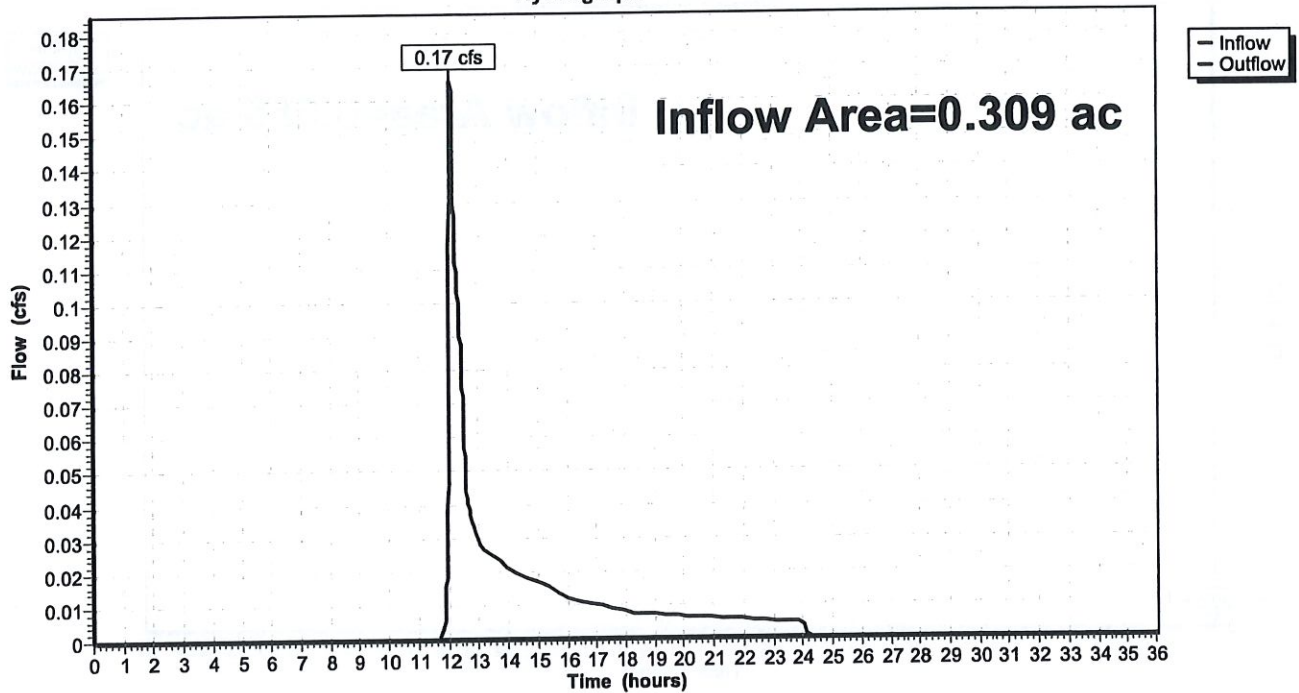
Summary for Reach 2R: Offsite Flow to Earle Road

Inflow Area = 0.309 ac, 40.32% Impervious, Inflow Depth = 0.62" for 2-year event
Inflow = 0.17 cfs @ 12.11 hrs, Volume= 0.016 af
Outflow = 0.17 cfs @ 12.11 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs

Reach 2R: Offsite Flow to Earle Road

Hydrograph



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Summary for Pond 1P: 600 Gal. Leaching Pit

Inflow Area = 0.025 ac, 100.00% Impervious, Inflow Depth = 3.37" for 2-year event
 Inflow = 0.09 cfs @ 12.08 hrs, Volume= 0.007 af
 Outflow = 0.02 cfs @ 12.45 hrs, Volume= 0.007 af, Atten= 75%, Lag= 22.1 min
 Discarded = 0.02 cfs @ 12.45 hrs, Volume= 0.007 af

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
 Peak Elev= 11.80' @ 12.45 hrs Surf.Area= 79 sf Storage= 67 cf

Plug-Flow detention time= 17.1 min calculated for 0.007 af (100% of inflow)
 Center-of-Mass det. time= 17.1 min (771.1 - 754.0)

Volume	Invert	Avail.Storage	Storage Description
#1	10.00'	125 cf	10.00'D x 5.42'H Vertical Cone/Cylinder 426 cf Overall - 113 cf Embedded = 313 cf x 40.0% Voids
#2	11.00'	95 cf	5.50'D x 4.00'H Vertical Cone/Cylinder Inside #1 113 cf Overall - 3.0" Wall Thickness = 95 cf
		220 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	10.00'	8.270 in/hr Exfiltration over Horizontal area Conductivity to Groundwater Elevation = 6.00'

Discarded OutFlow Max=0.02 cfs @ 12.45 hrs HW=11.80' (Free Discharge)
 ↑ 1=Exfiltration (Controls 0.02 cfs)

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Summary for Pond 3P: Infiltration System #1

Inflow Area = 0.209 ac, 84.43% Impervious, Inflow Depth = 2.36" for 2-year event
 Inflow = 0.57 cfs @ 12.09 hrs, Volume= 0.041 af
 Outflow = 0.15 cfs @ 12.47 hrs, Volume= 0.041 af, Atten= 75%, Lag= 23.1 min
 Discarded = 0.15 cfs @ 12.47 hrs, Volume= 0.041 af

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
 Peak Elev= 15.55' @ 12.47 hrs Surf.Area= 0.014 ac Storage= 0.009 af

Plug-Flow detention time= 15.7 min calculated for 0.041 af (100% of inflow)
 Center-of-Mass det. time= 15.7 min (826.0 - 810.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	14.50'	0.013 af	16.00'W x 38.50'L x 3.54'H Field A 0.050 af Overall - 0.019 af Embedded = 0.031 af x 40.0% Voids
#2A	15.00'	0.019 af	Cultec R-330XLHD x 15 Inside #1 Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap Row Length Adjustment= +1.50' x 7.45 sf x 3 rows
		0.031 af	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	14.50'	8.270 in/hr Exfiltration over Horizontal area Conductivity to Groundwater Elevation = 10.00'

Discarded OutFlow Max=0.15 cfs @ 12.47 hrs HW=15.55' (Free Discharge)
 ↑ **1=Exfiltration** (Controls 0.15 cfs)

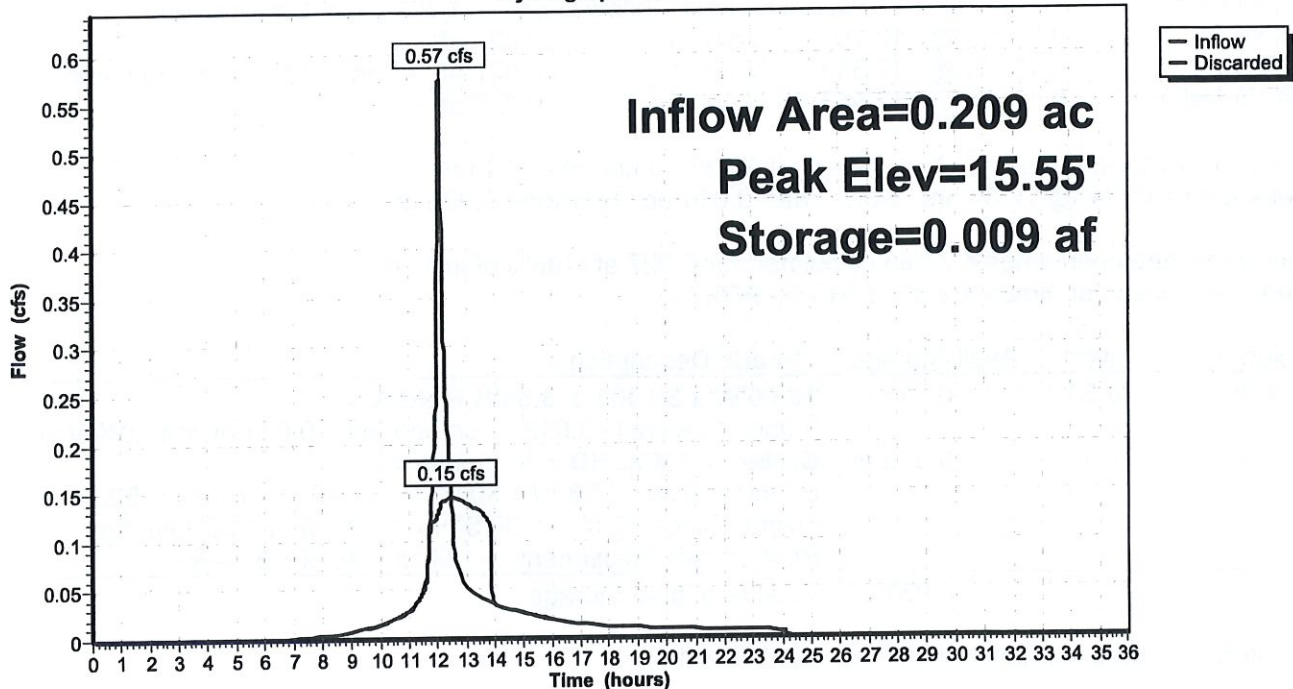
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Pond 3P: Infiltration System #1

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Pond 5P: Infiltration System #2 - Chamber Wizard Field A

Chamber Model = Cultec R-330XLHD (Cultec Recharger®330XLHD)

Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf

Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap

Row Length Adjustment= +1.50' x 7.45 sf x 3 rows

52.0" Wide + 6.0" Spacing = 58.0" C-C Row Spacing

5 Chambers/Row x 7.00' Long +1.50' Row Adjustment = 36.50' Row Length +12.0" End Stone x 2 = 38.50' Base Length

3 Rows x 52.0" Wide + 6.0" Spacing x 2 + 12.0" Side Stone x 2 = 16.00' Base Width

6.0" Stone Base + 30.5" Chamber Height + 6.0" Stone Cover = 3.54' Field Height

15 Chambers x 52.2 cf +1.50' Row Adjustment x 7.45 sf x 3 Rows = 815.9 cf Chamber Storage

2,181.7 cf Field - 815.9 cf Chambers = 1,365.8 cf Stone x 40.0% Voids = 546.3 cf Stone Storage

Chamber Storage + Stone Storage = 1,362.2 cf = 0.031 af

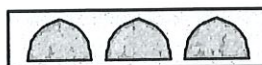
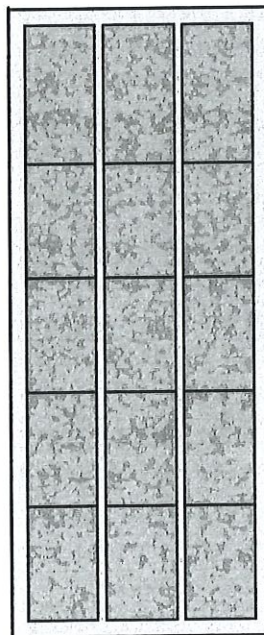
Overall Storage Efficiency = 62.4%

Overall System Size = 38.50' x 16.00' x 3.54'

15 Chambers

80.8 cy Field

50.6 cy Stone



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Time span=0.00-36.00 hrs, dt=0.01 hrs, 3601 points
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: Building Roof (Addition) Runoff Area=1,085 sf 100.00% Impervious Runoff Depth=4.56"
 Tc=6.0 min CN=98 Runoff=0.12 cfs 0.009 af

Subcatchment2S: Northeast Site Runoff Area=13,454 sf 40.32% Impervious Runoff Depth=1.25"
 Tc=6.0 min CN=61 Runoff=0.41 cfs 0.032 af

Subcatchment3S: LCB Tributary Area Runoff Area=9,108 sf 84.43% Impervious Runoff Depth=3.48"
 Tc=6.0 min CN=88 Runoff=0.84 cfs 0.061 af

Subcatchment4S: Northwest Site Runoff Area=29,845 sf 6.13% Impervious Runoff Depth=0.04"
 Flow Length=878' Tc=27.9 min UI Adjusted CN=34 Runoff=0.00 cfs 0.002 af

Subcatchment5S: Southwest Site Runoff Area=22,734 sf 39.87% Impervious Runoff Depth=1.25"
 Flow Length=137' Tc=11.7 min CN=61 Runoff=0.56 cfs 0.054 af

Reach 2R: Offsite Flow to Earle Road Inflow=0.41 cfs 0.032 af
 Outflow=0.41 cfs 0.032 af

Reach 4R: Offsite Flow to Middleton Drive Inflow=0.00 cfs 0.002 af
 Outflow=0.00 cfs 0.002 af

Pond 1P: 600 Gal. Leaching Pit Peak Elev=12.63' Storage=103 cf Inflow=0.12 cfs 0.009 af
 Outflow=0.02 cfs 0.009 af

Pond 3P: Infiltration System #1 Peak Elev=16.23' Storage=0.017 af Inflow=0.84 cfs 0.061 af
 Outflow=0.16 cfs 0.061 af

Pond 5P: Infiltration System #2 Peak Elev=17.88' Storage=0.013 af Inflow=0.56 cfs 0.054 af
 Outflow=0.14 cfs 0.054 af

Total Runoff Area = 1.750 ac Runoff Volume = 0.159 af Average Runoff Depth = 1.09"
67.08% Pervious = 1.174 ac 32.92% Impervious = 0.576 ac

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30 Earle Road, Harwich
Type III 24-hr 10-year Rainfall=4.80"

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Summary for Subcatchment 2S: Northeast Site

Runoff = 0.41 cfs @ 12.10 hrs, Volume= 0.032 af, Depth= 1.25"
Routed to Reach 2R : Offsite Flow to Earle Road

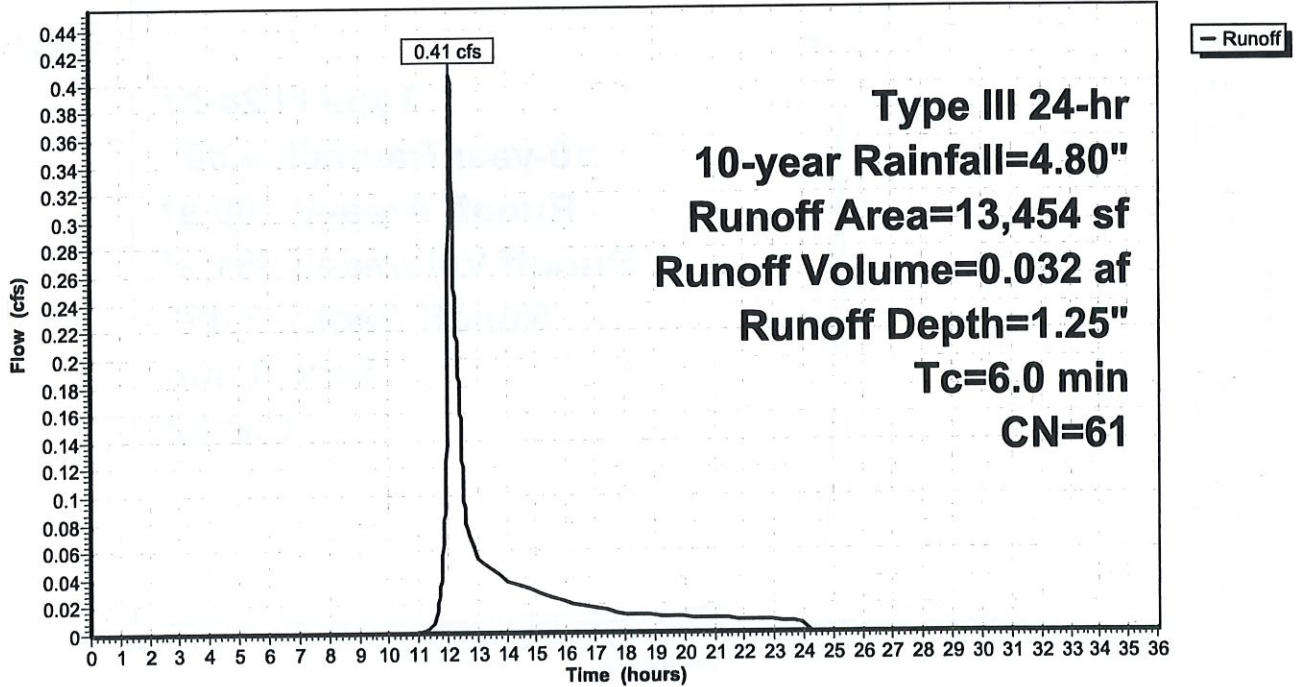
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.80"

Area (sf)	CN	Description
3,366	30	Woods, Good, HSG A
5,424	98	Unconnected roofs, HSG A
4,664	39	>75% Grass cover, Good, HSG A
13,454	61	Weighted Average
8,030		59.68% Pervious Area
5,424		40.32% Impervious Area
5,424		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment 2S: Northeast Site

Hydrograph



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30 Earle Road, Harwich
 Type III 24-hr 10-year Rainfall=4.80"

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Summary for Subcatchment 4S: Northwest Site

Runoff = 0.00 cfs @ 17.20 hrs, Volume= 0.002 af, Depth= 0.04"
 Routed to Reach 4R : Offsite Flow to Middleton Drive

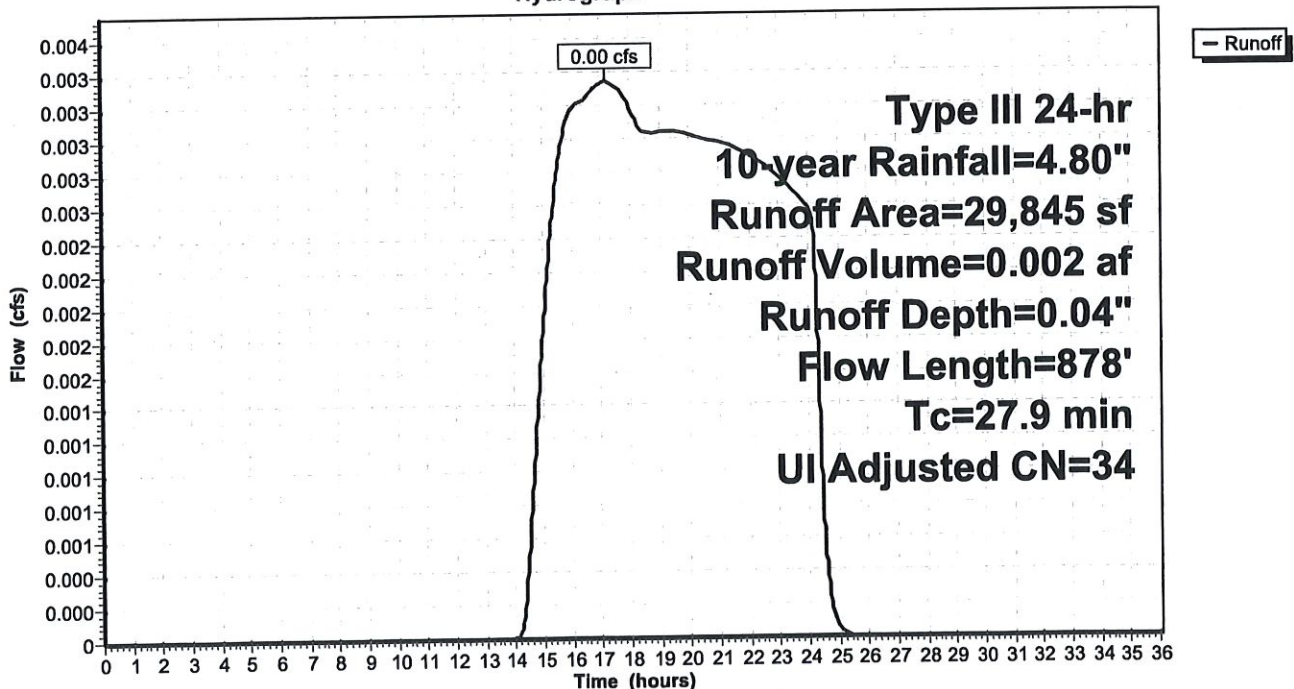
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
 Type III 24-hr 10-year Rainfall=4.80"

Area (sf)	CN	Adj	Description
1,830	98		Unconnected pavement, HSG A
5,511	39		>75% Grass cover, Good, HSG A
22,504	30		Woods, Good, HSG A
29,845	36	34	Weighted Average, UI Adjusted
28,015			93.87% Pervious Area
1,830			6.13% Impervious Area
1,830			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.3	50	0.0120	0.06		Sheet Flow, A-B
					Woods: Light underbrush n= 0.400 P2= 3.60"
13.6	828	0.0040	1.02		Shallow Concentrated Flow, B-C
					Unpaved Kv= 16.1 fps
27.9	878	Total			

Subcatchment 4S: Northwest Site

Hydrograph



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30 Earle Road, Harwich

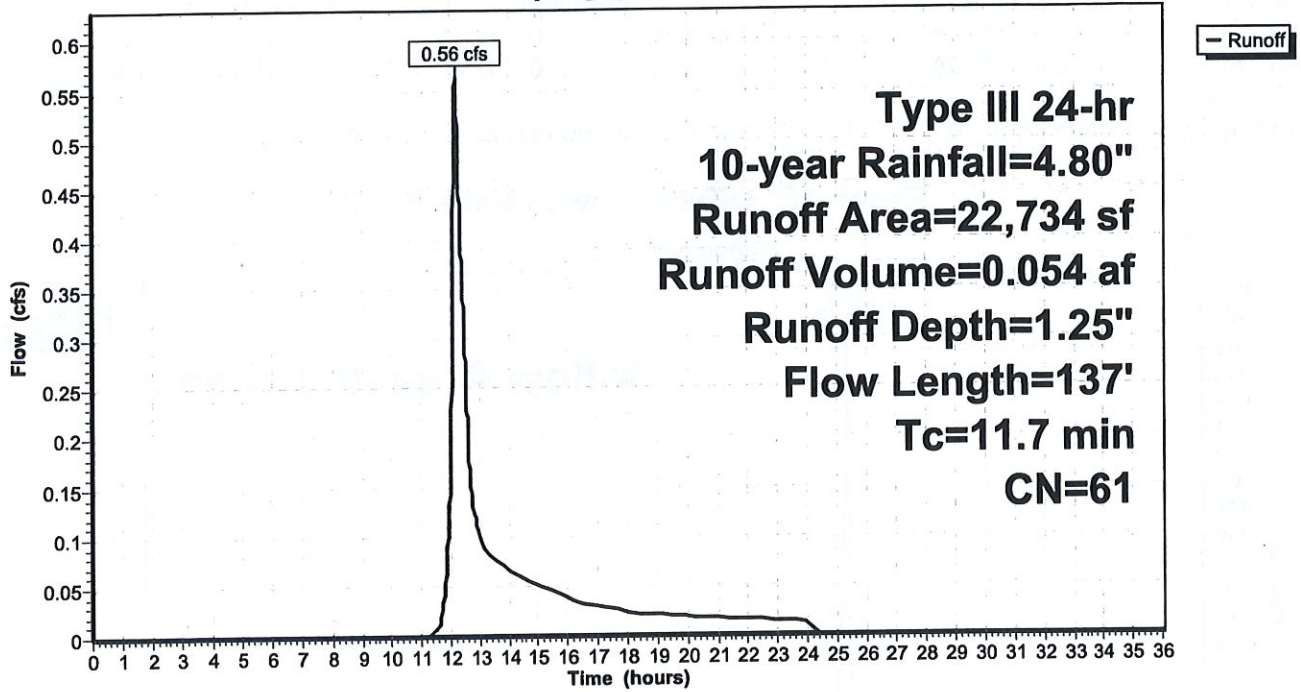
Type III 24-hr 10-year Rainfall=4.80"

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Subcatchment 5S: Southwest Site

Hydrograph



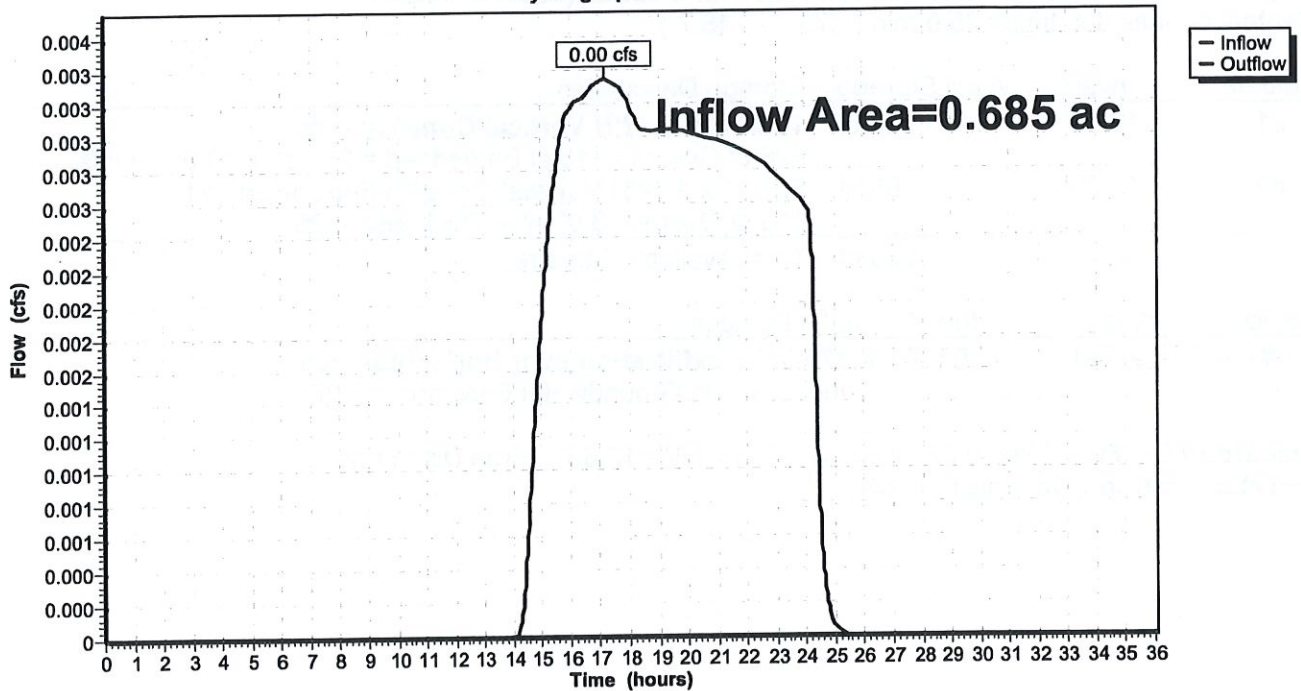
Summary for Reach 4R: Offsite Flow to Middleton Drive

Inflow Area = 0.685 ac, 6.13% Impervious, Inflow Depth = 0.04" for 10-year event
Inflow = 0.00 cfs @ 17.20 hrs, Volume= 0.002 af
Outflow = 0.00 cfs @ 17.20 hrs, Volume= 0.002 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs

Reach 4R: Offsite Flow to Middleton Drive

Hydrograph



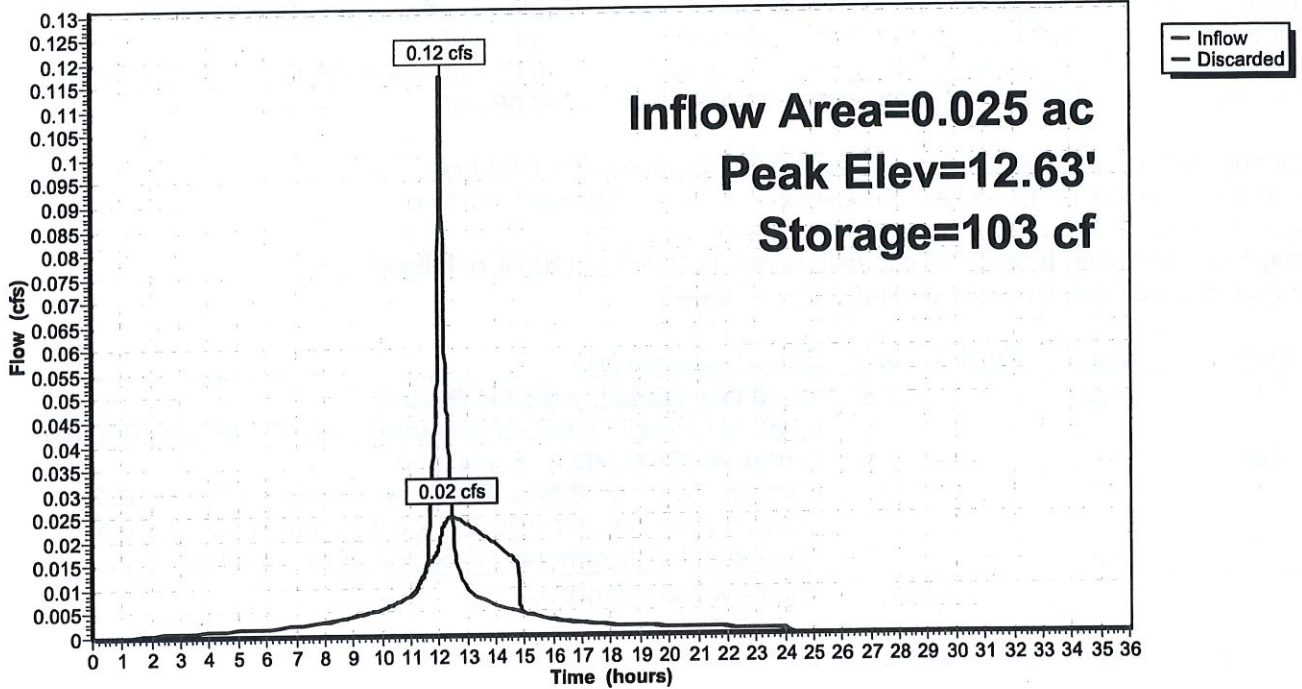
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Pond 1P: 600 Gal. Leaching Pit

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Pond 3P: Infiltration System #1 - Chamber Wizard Field A

Chamber Model = Cultec R-330XLHD (Cultec Recharger®330XLHD)

Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf

Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap

Row Length Adjustment= +1.50' x 7.45 sf x 3 rows

52.0" Wide + 6.0" Spacing = 58.0" C-C Row Spacing

5 Chambers/Row x 7.00' Long +1.50' Row Adjustment = 36.50' Row Length +12.0" End Stone x 2 = 38.50' Base Length

3 Rows x 52.0" Wide + 6.0" Spacing x 2 + 12.0" Side Stone x 2 = 16.00' Base Width

6.0" Stone Base + 30.5" Chamber Height + 6.0" Stone Cover = 3.54' Field Height

15 Chambers x 52.2 cf +1.50' Row Adjustment x 7.45 sf x 3 Rows = 815.9 cf Chamber Storage

2,181.7 cf Field - 815.9 cf Chambers = 1,365.8 cf Stone x 40.0% Voids = 546.3 cf Stone Storage

Chamber Storage + Stone Storage = 1,362.2 cf = 0.031 af

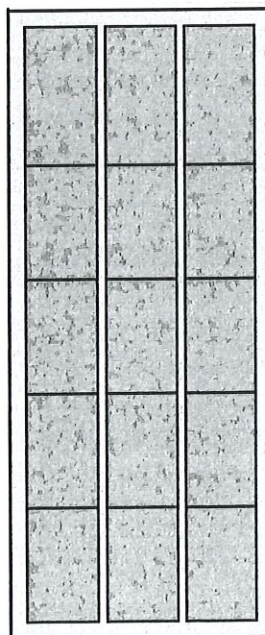
Overall Storage Efficiency = 62.4%

Overall System Size = 38.50' x 16.00' x 3.54'

15 Chambers

80.8 cy Field

50.6 cy Stone



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30 Earle Road, Harwich

Type III 24-hr 10-year Rainfall=4.80"

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Summary for Pond 5P: Infiltration System #2

Inflow Area = 0.522 ac, 39.87% Impervious, Inflow Depth = 1.25" for 10-year event
 Inflow = 0.56 cfs @ 12.18 hrs, Volume= 0.054 af
 Outflow = 0.14 cfs @ 12.72 hrs, Volume= 0.054 af, Atten= 75%, Lag= 32.3 min
 Discarded = 0.14 cfs @ 12.72 hrs, Volume= 0.054 af

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
 Peak Elev= 17.88' @ 12.72 hrs Surf.Area= 0.014 ac Storage= 0.013 af

Plug-Flow detention time= 27.1 min calculated for 0.054 af (100% of inflow)
 Center-of-Mass det. time= 27.1 min (907.7 - 880.6)

Volume	Invert	Avail.Storage	Storage Description
#1A	16.50'	0.013 af	16.00'W x 38.50'L x 3.54'H Field A 0.050 af Overall - 0.019 af Embedded = 0.031 af x 40.0% Voids
#2A	17.00'	0.019 af	Cultec R-330XLHD x 15 Inside #1 Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap Row Length Adjustment= +1.50' x 7.45 sf x 3 rows
		0.031 af	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	16.50'	8.270 in/hr Exfiltration over Horizontal area Conductivity to Groundwater Elevation = 10.00'

Discarded OutFlow Max=0.14 cfs @ 12.72 hrs HW=17.88' (Free Discharge)
 ↑1=Exfiltration (Controls 0.14 cfs)

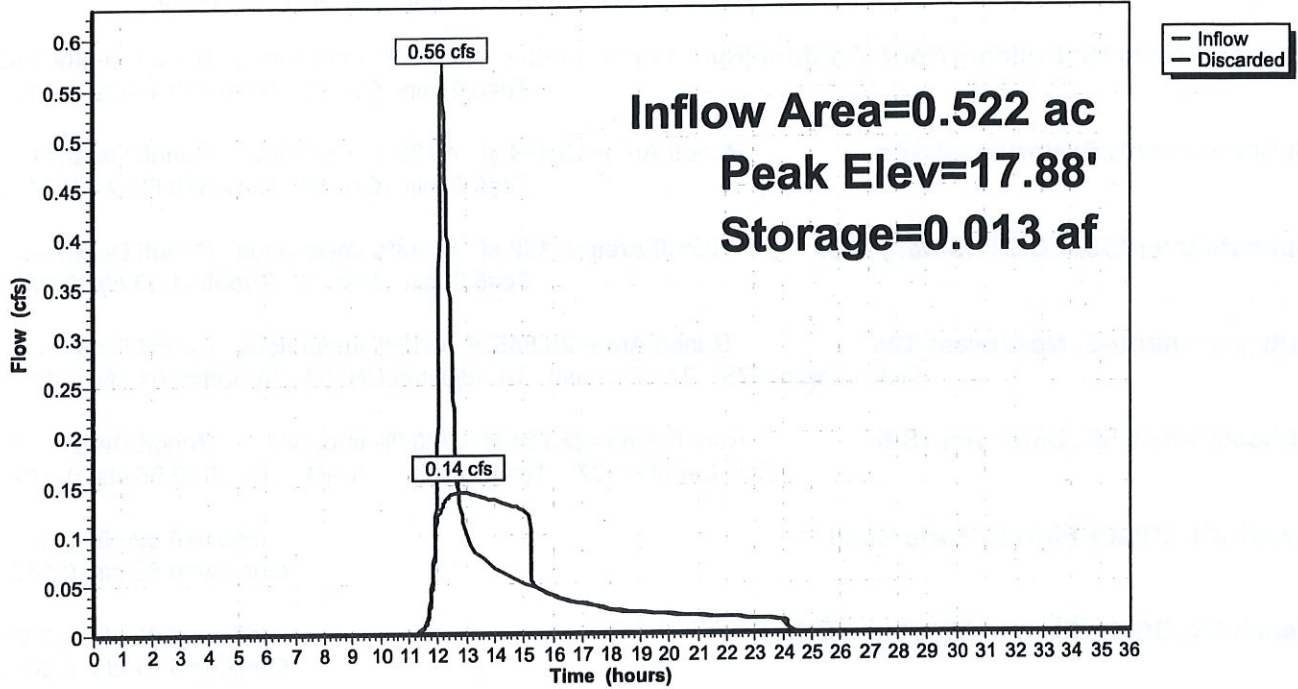
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Pond 5P: Infiltration System #2

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Summary for Subcatchment 1S: Building Roof (Addition)

Runoff = 0.14 cfs @ 12.08 hrs, Volume= 0.011 af, Depth= 5.46"
 Routed to Pond 1P : 600 Gal. Leaching Pit

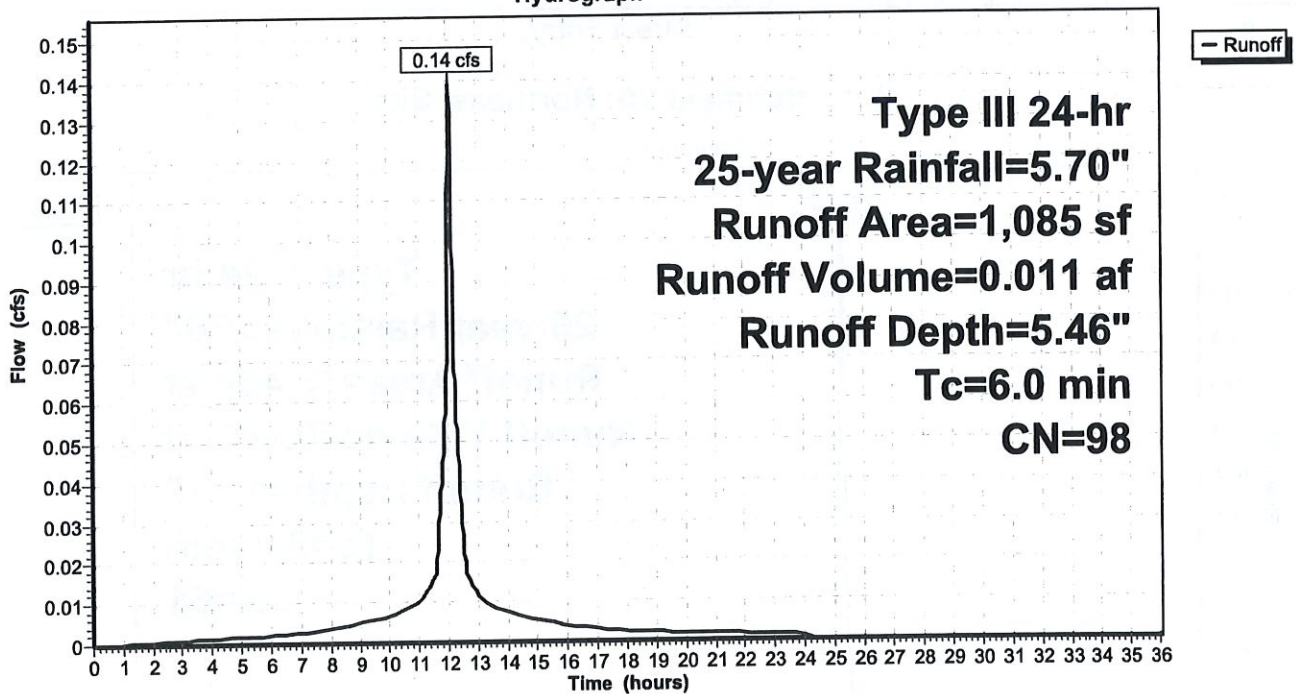
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
 Type III 24-hr 25-year Rainfall=5.70"

Area (sf)	CN	Description
1,085	98	Roofs, HSG A
1,085		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment 1S: Building Roof (Addition)

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30 Earle Road, Harwich
Type III 24-hr 25-year Rainfall=5.70"

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Summary for Subcatchment 3S: LCB Tributary Area

Runoff = 1.03 cfs @ 12.09 hrs, Volume= 0.076 af, Depth= 4.34"
Routed to Pond 3P : Infiltration System #1

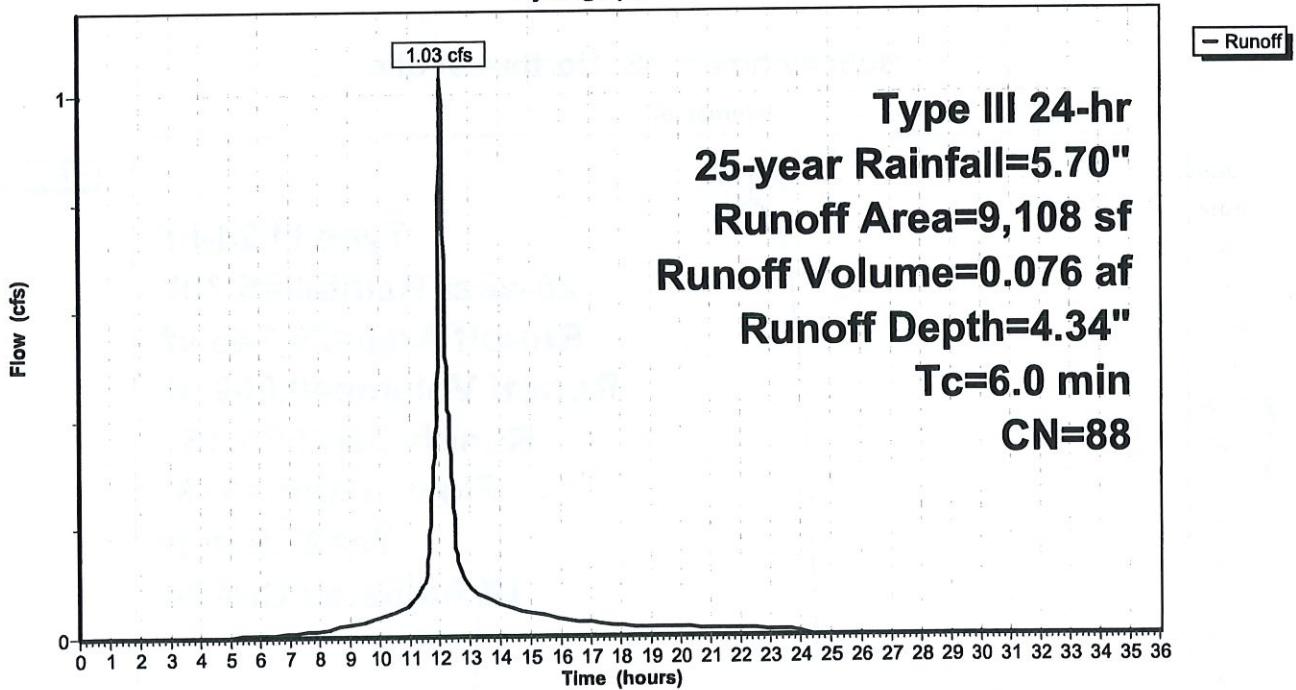
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-year Rainfall=5.70"

Area (sf)	CN	Description
7,690	98	Unconnected roofs, HSG A
892	39	>75% Grass cover, Good, HSG A
526	30	Woods, Good, HSG A
9,108	88	Weighted Average
1,418		15.57% Pervious Area
7,690		84.43% Impervious Area
7,690		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Subcatchment 3S: LCB Tributary Area

Hydrograph



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Summary for Subcatchment 5S: Southwest Site

Runoff = 0.86 cfs @ 12.18 hrs, Volume= 0.079 af, Depth= 1.81"
 Routed to Pond 5P : Infiltration System #2

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
 Type III 24-hr 25-year Rainfall=5.70"

Area (sf)	CN	Description
5,015	30	Woods, Good, HSG A
8,655	39	>75% Grass cover, Good, HSG A
9,064	98	Unconnected roofs, HSG A
22,734	61	Weighted Average
13,670		60.13% Pervious Area
9,064		39.87% Impervious Area
9,064		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.0240	0.08		Sheet Flow, A-B Woods: Light underbrush n= 0.400 P2= 3.60"
0.5	52	0.0115	1.73		Shallow Concentrated Flow, B-C Unpaved Kv= 16.1 fps
0.4	35	0.0063	1.61		Shallow Concentrated Flow, C-D Paved Kv= 20.3 fps
11.7	137	Total			

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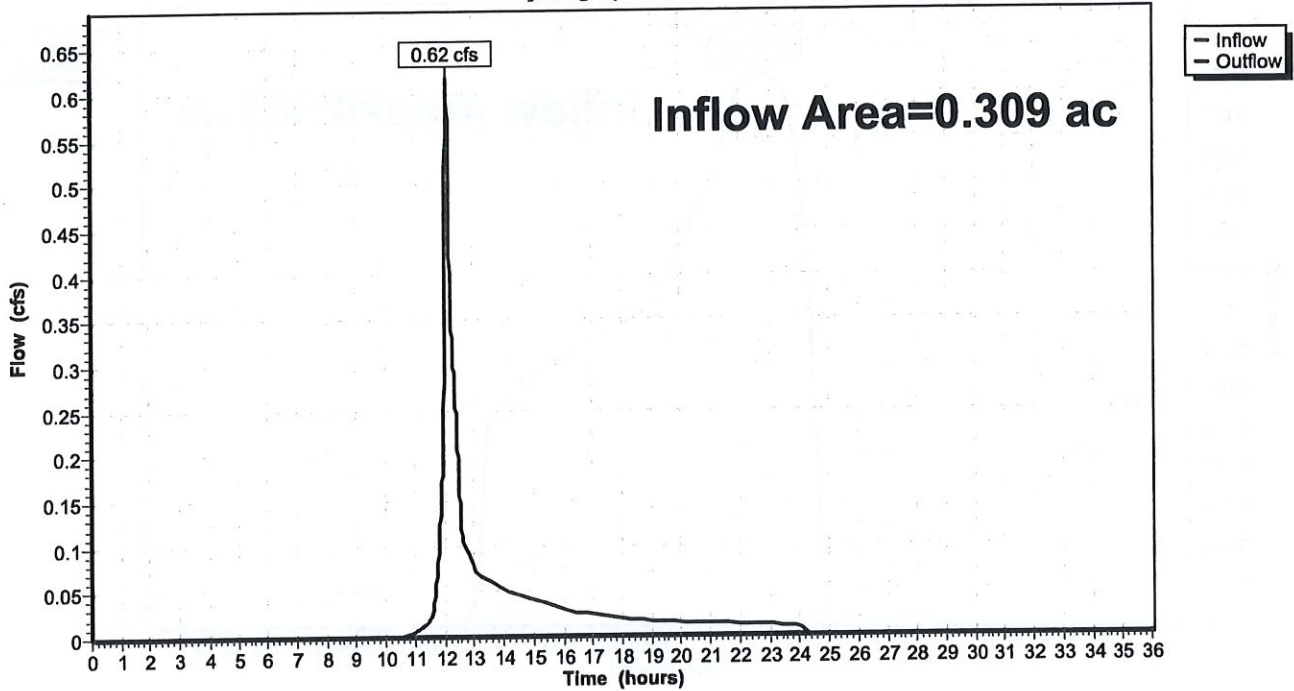
Summary for Reach 2R: Offsite Flow to Earle Road

Inflow Area = 0.309 ac, 40.32% Impervious, Inflow Depth = 1.81" for 25-year event
Inflow = 0.62 cfs @ 12.10 hrs, Volume= 0.047 af
Outflow = 0.62 cfs @ 12.10 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs

Reach 2R: Offsite Flow to Earle Road

Hydrograph



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Summary for Pond 1P: 600 Gal. Leaching Pit

Inflow Area = 0.025 ac, 100.00% Impervious, Inflow Depth = 5.46" for 25-year event
 Inflow = 0.14 cfs @ 12.08 hrs, Volume= 0.011 af
 Outflow = 0.03 cfs @ 12.51 hrs, Volume= 0.011 af, Atten= 80%, Lag= 25.6 min
 Discarded = 0.03 cfs @ 12.51 hrs, Volume= 0.011 af

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
 Peak Elev= 13.27' @ 12.51 hrs Surf.Area= 79 sf Storage= 131 cf

Plug-Flow detention time= 30.6 min calculated for 0.011 af (100% of inflow)
 Center-of-Mass det. time= 30.6 min (776.5 - 745.9)

Volume	Invert	Avail.Storage	Storage Description
#1	10.00'	125 cf	10.00'D x 5.42'H Vertical Cone/Cylinder 426 cf Overall - 113 cf Embedded = 313 cf x 40.0% Voids
#2	11.00'	95 cf	5.50'D x 4.00'H Vertical Cone/Cylinder Inside #1 113 cf Overall - 3.0" Wall Thickness = 95 cf
		220 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	10.00'	8.270 in/hr Exfiltration over Horizontal area Conductivity to Groundwater Elevation = 6.00'

Discarded OutFlow Max=0.03 cfs @ 12.51 hrs HW=13.27' (Free Discharge)
 ↑ 1=Exfiltration (Controls 0.03 cfs)

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Summary for Pond 3P: Infiltration System #1

Inflow Area = 0.209 ac, 84.43% Impervious, Inflow Depth = 4.34" for 25-year event
 Inflow = 1.03 cfs @ 12.09 hrs, Volume= 0.076 af
 Outflow = 0.18 cfs @ 12.55 hrs, Volume= 0.076 af, Atten= 83%, Lag= 27.7 min
 Discarded = 0.18 cfs @ 12.55 hrs, Volume= 0.076 af

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
 Peak Elev= 16.80' @ 12.55 hrs Surf.Area= 0.014 ac Storage= 0.023 af

Plug-Flow detention time= 38.3 min calculated for 0.076 af (100% of inflow)
 Center-of-Mass det. time= 38.3 min (831.6 - 793.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	14.50'	0.013 af	16.00"W x 38.50"L x 3.54"H Field A 0.050 af Overall - 0.019 af Embedded = 0.031 af x 40.0% Voids
#2A	15.00'	0.019 af	Cultec R-330XLHD x 15 Inside #1 Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap Row Length Adjustment= +1.50' x 7.45 sf x 3 rows
		0.031 af	Total Available Storage

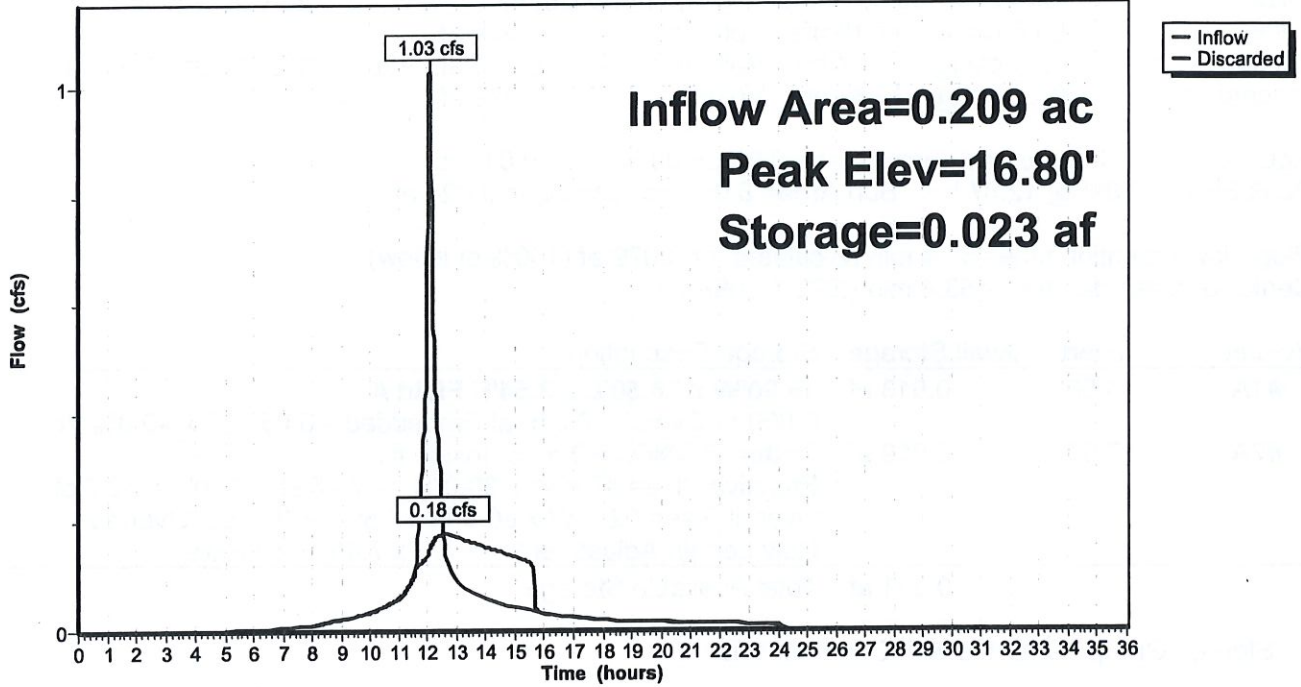
Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	14.50'	8.270 in/hr Exfiltration over Horizontal area Conductivity to Groundwater Elevation = 10.00'

Discarded OutFlow Max=0.18 cfs @ 12.55 hrs HW=16.80' (Free Discharge)
 ↑1=Exfiltration (Controls 0.18 cfs)

Pond 3P: Infiltration System #1

Hydrograph



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Pond 5P: Infiltration System #2 - Chamber Wizard Field A

Chamber Model = Cultec R-330XLHD (Cultec Recharger®330XLHD)

Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf

Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap

Row Length Adjustment= +1.50' x 7.45 sf x 3 rows

52.0" Wide + 6.0" Spacing = 58.0" C-C Row Spacing

5 Chambers/Row x 7.00' Long +1.50' Row Adjustment = 36.50' Row Length +12.0" End Stone x 2 = 38.50' Base Length

3 Rows x 52.0" Wide + 6.0" Spacing x 2 + 12.0" Side Stone x 2 = 16.00' Base Width

6.0" Stone Base + 30.5" Chamber Height + 6.0" Stone Cover = 3.54' Field Height

15 Chambers x 52.2 cf +1.50' Row Adjustment x 7.45 sf x 3 Rows = 815.9 cf Chamber Storage

2,181.7 cf Field - 815.9 cf Chambers = 1,365.8 cf Stone x 40.0% Voids = 546.3 cf Stone Storage

Chamber Storage + Stone Storage = 1,362.2 cf = 0.031 af

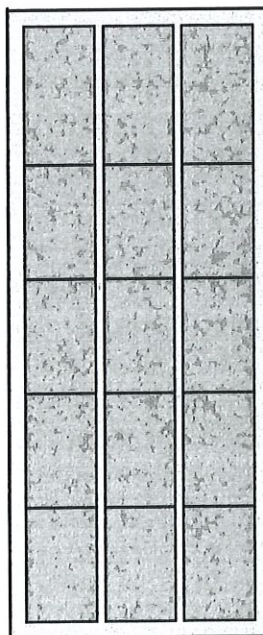
Overall Storage Efficiency = 62.4%

Overall System Size = 38.50' x 16.00' x 3.54'

15 Chambers

80.8 cy Field

50.6 cy Stone



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