



Drainage Diagram for POST REGATTA VIEW
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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
2.520	30	Woods, Good, HSG A (B14,B15)
3.350	39	>75% Grass cover, Good, HSG A (1S,B1,B10,B11,B12,B13,B14,B15,B2,B3,B4,B5,B6,B7,B8,B9)
2.974	98	Paved parking & roofs (1S,2S,24S,B1,B10,B11,B12,B13,B14,B15,B2,B3,B4,B5,B6,B7,B8,B9)
8.844		TOTAL AREA

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Soil Listing (all nodes)

Area (acres)	Soil Goup	Subcatchment Numbers
5.870	HSG A	1S, B1, B10, B11, B12, B13, B14, B15, B2, B3, B4, B5, B6, B7, B8, B9
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
2.974	Other	1S, 2S, 24S, B1, B10, B11, B12, B13, B14, B15, B2, B3, B4, B5, B6, B7, B8, B9
8.844		TOTAL AREA

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Type II 24-hr 1yr Rainfall=2.15"

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Time span=0.00-100.00 hrs, dt=0.04 hrs, 2501 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 1S: -	Runoff Area=2.430 ac 55.14% Impervious Runoff Depth=0.36" Flow Length=1,300' Tc=48.7 min CN=72 Runoff=0.38 cfs 0.072 af
Subcatchment 2S: POROUS - SINGLE	Runoff Area=460 sf 100.00% Impervious Runoff Depth=1.92" Tc=230.0 min CN=98 Runoff=0.00 cfs 0.002 af
Subcatchment 24S: POROUS - SHARED	Runoff Area=1,600 sf 100.00% Impervious Runoff Depth=1.92" Tc=230.0 min CN=98 Runoff=0.01 cfs 0.006 af
Subcatchment B1: -	Runoff Area=0.104 ac 55.77% Impervious Runoff Depth=0.36" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=72 Runoff=0.06 cfs 0.003 af
Subcatchment B10: -	Runoff Area=0.120 ac 66.67% Impervious Runoff Depth=0.57" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=78 Runoff=0.12 cfs 0.006 af
Subcatchment B11: -	Runoff Area=0.100 ac 60.00% Impervious Runoff Depth=0.42" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=74 Runoff=0.07 cfs 0.004 af
Subcatchment B12: -	Runoff Area=0.100 ac 60.00% Impervious Runoff Depth=0.42" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=74 Runoff=0.07 cfs 0.004 af
Subcatchment B13: -	Runoff Area=0.140 ac 71.43% Impervious Runoff Depth=0.70" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=81 Runoff=0.17 cfs 0.008 af
Subcatchment B14: -	Runoff Area=1.680 ac 17.86% Impervious Runoff Depth=0.00" Flow Length=345' Tc=33.1 min CN=46 Runoff=0.00 cfs 0.000 af
Subcatchment B15: -	Runoff Area=3.260 ac 12.27% Impervious Runoff Depth=0.00" Flow Length=1,070' Tc=50.3 min CN=41 Runoff=0.00 cfs 0.000 af
Subcatchment B2: -	Runoff Area=0.103 ac 57.28% Impervious Runoff Depth=0.39" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=73 Runoff=0.06 cfs 0.003 af
Subcatchment B3: -	Runoff Area=0.120 ac 66.67% Impervious Runoff Depth=0.57" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=78 Runoff=0.12 cfs 0.006 af
Subcatchment B4: -	Runoff Area=0.100 ac 60.00% Impervious Runoff Depth=0.42" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=74 Runoff=0.07 cfs 0.004 af
Subcatchment B5: -	Runoff Area=0.095 ac 57.89% Impervious Runoff Depth=0.39" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=73 Runoff=0.06 cfs 0.003 af
Subcatchment B6: -	Runoff Area=0.095 ac 57.89% Impervious Runoff Depth=0.39" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=73 Runoff=0.06 cfs 0.003 af
Subcatchment B7: -	Runoff Area=0.140 ac 64.29% Impervious Runoff Depth=0.53" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=77 Runoff=0.13 cfs 0.006 af

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Subcatchment B8: -	Runoff Area=0.100 ac 60.00% Impervious Runoff Depth=0.42" Flow Length=120' Slope=0.0100 '/' Tc=6.0 min CN=74 Runoff=0.07 cfs 0.004 af
Subcatchment B9: -	Runoff Area=0.110 ac 63.64% Impervious Runoff Depth=0.53" Flow Length=120' Slope=0.0100 '/' Tc=6.0 min CN=77 Runoff=0.10 cfs 0.005 af
Pond 1P: BIO - SMA#1	Peak Elev=259.26' Storage=135 cf Inflow=0.06 cfs 0.003 af Outflow=0.00 cfs 0.000 af
Pond 2P: BIO - SMA#2	Peak Elev=258.29' Storage=146 cf Inflow=0.06 cfs 0.003 af Outflow=0.00 cfs 0.000 af
Pond 3P: DRYWELL#2	Peak Elev=258.28' Storage=0 cf Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Pond 4P: REGATTA VIEW CULVERT	Peak Elev=257.07' Inflow=0.38 cfs 0.072 af 18.0" x 80.0' Culvert Outflow=0.38 cfs 0.072 af
Pond 5P: BIO - SMA#3	Peak Elev=259.60' Storage=249 cf Inflow=0.12 cfs 0.006 af Outflow=0.00 cfs 0.000 af
Pond 6P: BIO - SMA#4	Peak Elev=259.32' Storage=153 cf Inflow=0.07 cfs 0.004 af Outflow=0.00 cfs 0.000 af
Pond 7P: BIO - SMA#5	Peak Elev=258.26' Storage=134 cf Inflow=0.06 cfs 0.003 af Outflow=0.00 cfs 0.000 af
Pond 8P: BIO - SMA#6	Peak Elev=257.76' Storage=134 cf Inflow=0.06 cfs 0.003 af Outflow=0.00 cfs 0.000 af
Pond 9P: ROOFTOP DISCONNECT	Peak Elev=257.00' Storage=0 cf Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Pond 10P: BIO - SMA#8	Peak Elev=258.85' Storage=153 cf Inflow=0.07 cfs 0.004 af Outflow=0.00 cfs 0.000 af
Pond 11P: INFILTRATOR#2	Peak Elev=258.25' Storage=0.000 af Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Pond 12P: BIO - SMA#7	Peak Elev=256.66' Storage=270 cf Inflow=0.13 cfs 0.006 af Outflow=0.00 cfs 0.000 af
Pond 13P: BIO - SMA#9	Peak Elev=260.04' Storage=212 cf Inflow=0.10 cfs 0.005 af Outflow=0.00 cfs 0.000 af
Pond 14P: BIO - SMA#10	Peak Elev=260.02' Storage=249 cf Inflow=0.12 cfs 0.006 af Outflow=0.00 cfs 0.000 af
Pond 15P: BIO - SMA#11	Peak Elev=258.85' Storage=153 cf Inflow=0.07 cfs 0.004 af Outflow=0.00 cfs 0.000 af
Pond 16P: BIO - SMA#12	Peak Elev=259.85' Storage=153 cf Inflow=0.07 cfs 0.004 af Outflow=0.00 cfs 0.000 af

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Pond 17P: ROOFTOP DISCONNECT Peak Elev=260.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
Outflow=0.00 cfs 0.000 af

Pond 18P: DRYWELL#1 Peak Elev=257.83' Storage=0 cf Inflow=0.00 cfs 0.000 af
Outflow=0.00 cfs 0.000 af

Pond 19P: INFILTRATOR#3 Peak Elev=258.25' Storage=0 cf Inflow=0.00 cfs 0.000 af
Discarded=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond 20P: INFILTRATOR#4 Peak Elev=257.25' Storage=0.000 af Inflow=0.00 cfs 0.000 af
Outflow=0.00 cfs 0.000 af

Pond 21P: BIO - SMA#13 Peak Elev=256.98' Storage=357 cf Inflow=0.17 cfs 0.008 af
Outflow=0.00 cfs 0.000 af

Pond 22P: POROUS SECTION Peak Elev=257.00' Storage=0 cf Inflow=0.00 cfs 0.002 af
Outflow=0.00 cfs 0.002 af

Pond 23P: POROUS SECTION Peak Elev=257.40' Storage=256 cf Inflow=0.01 cfs 0.006 af
Outflow=0.00 cfs 0.000 af

Pond 24P: INFILTRATOR#1 Peak Elev=259.05' Storage=0.000 af Inflow=0.00 cfs 0.000 af
Outflow=0.00 cfs 0.000 af

Pond 25P: DRYWELL#3 Peak Elev=258.28' Storage=0 cf Inflow=0.00 cfs 0.000 af
Outflow=0.00 cfs 0.000 af

Pond 26P: INFILTRATOR#5 Peak Elev=256.50' Storage=0.000 af Inflow=0.00 cfs 0.000 af
Outflow=0.00 cfs 0.000 af

Link A: DESIGN POINT Inflow=0.38 cfs 0.072 af
Primary=0.38 cfs 0.072 af

Total Runoff Area = 8.844 ac Runoff Volume = 0.137 af Average Runoff Depth = 0.19"
66.37% Pervious = 5.870 ac 33.63% Impervious = 2.974 ac

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Summary for Subcatchment 1S: -

Runoff = 0.38 cfs @ 12.59 hrs, Volume= 0.072 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

Area (ac)	CN	Description
1.340	98	Paved parking & roofs
1.090	39	>75% Grass cover, Good, HSG A
2.430	72	Weighted Average
1.090		Pervious Area
1.340		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	100	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 2.50"
34.1	1,200	0.0070	0.59		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
48.7	1,300	Total			

Summary for Subcatchment 2S: POROUS - SINGLE DRIVEWAY

Runoff = 0.00 cfs @ 14.80 hrs, Volume= 0.002 af, Depth= 1.92"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

Area (sf)	CN	Description
460	98	Paved parking & roofs
460		Impervious Area

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

Summary for Subcatchment 24S: POROUS - SHARED DRIVEWAY

Runoff = 0.01 cfs @ 14.80 hrs, Volume= 0.006 af, Depth= 1.92"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

Area (sf)	CN	Description
1,600	98	Paved parking & roofs
1,600		Impervious Area

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

Summary for Subcatchment B1: -

Runoff = 0.06 cfs @ 11.99 hrs, Volume= 0.003 af, Depth= 0.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

Area (ac)	CN	Description
0.058	98	Paved parking & roofs
0.046	39	>75% Grass cover, Good, HSG A
0.104	72	Weighted Average
0.046		Pervious Area
0.058		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B10: -

Runoff = 0.12 cfs @ 11.98 hrs, Volume= 0.006 af, Depth= 0.57"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

Area (ac)	CN	Description
0.080	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.120	78	Weighted Average
0.040		Pervious Area
0.080		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

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Summary for Subcatchment B11: -

Runoff = 0.07 cfs @ 11.99 hrs, Volume= 0.004 af, Depth= 0.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

Area (ac)	CN	Description
0.060	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.100	74	Weighted Average
0.040		Pervious Area
0.060		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B12: -

Runoff = 0.07 cfs @ 11.99 hrs, Volume= 0.004 af, Depth= 0.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

Area (ac)	CN	Description
0.060	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.100	74	Weighted Average
0.040		Pervious Area
0.060		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B13: -

Runoff = 0.17 cfs @ 11.98 hrs, Volume= 0.008 af, Depth= 0.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

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Area (ac)	CN	Description
0.100	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.140	81	Weighted Average
0.040		Pervious Area
0.100		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B14: -

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

Area (ac)	CN	Description
0.690	30	Woods, Good, HSG A
0.690	39	>75% Grass cover, Good, HSG A
0.300	98	Paved parking & roofs
1.680	46	Weighted Average
1.380		Pervious Area
0.300		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.3	100	0.0150	0.06		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 2.50"
5.8	245	0.0100	0.70		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
33.1	345	Total			

Summary for Subcatchment B15: -

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

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Area (ac)	CN	Description
0.400	98	Paved parking & roofs
1.830	30	Woods, Good, HSG A
1.030	39	>75% Grass cover, Good, HSG A
3.260	41	Weighted Average
2.860		Pervious Area
0.400		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	100	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 2.50"
10.8	230	0.0050	0.35		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
24.9	740	0.0050	0.49		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
50.3	1,070	Total			

Summary for Subcatchment B2: -

Runoff = 0.06 cfs @ 11.99 hrs, Volume= 0.003 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

Area (ac)	CN	Description
0.059	98	Paved parking & roofs
0.044	39	>75% Grass cover, Good, HSG A
0.103	73	Weighted Average
0.044		Pervious Area
0.059		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B3: -

Runoff = 0.12 cfs @ 11.98 hrs, Volume= 0.006 af, Depth= 0.57"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

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Area (ac)	CN	Description
0.080	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.120	78	Weighted Average
0.040		Pervious Area
0.080		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B4: -

Runoff = 0.07 cfs @ 11.99 hrs, Volume= 0.004 af, Depth= 0.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

Area (ac)	CN	Description
0.060	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.100	74	Weighted Average
0.040		Pervious Area
0.060		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B5: -

Runoff = 0.06 cfs @ 11.99 hrs, Volume= 0.003 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

Area (ac)	CN	Description
0.055	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.095	73	Weighted Average
0.040		Pervious Area
0.055		Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B6: -

Runoff = 0.06 cfs @ 11.99 hrs, Volume= 0.003 af, Depth= 0.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

Area (ac)	CN	Description
0.055	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.095	73	Weighted Average
0.040		Pervious Area
0.055		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B7: -

Runoff = 0.13 cfs @ 11.98 hrs, Volume= 0.006 af, Depth= 0.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

Area (ac)	CN	Description
0.090	98	Paved parking & roofs
0.050	39	>75% Grass cover, Good, HSG A
0.140	77	Weighted Average
0.050		Pervious Area
0.090		Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B8: -

Runoff = 0.07 cfs @ 11.99 hrs, Volume= 0.004 af, Depth= 0.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

Area (ac)	CN	Description
0.060	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.100	74	Weighted Average
0.040		Pervious Area
0.060		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B9: -

Runoff = 0.10 cfs @ 11.98 hrs, Volume= 0.005 af, Depth= 0.53"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 1yr Rainfall=2.15"

Area (ac)	CN	Description
0.070	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.110	77	Weighted Average
0.040		Pervious Area
0.070		Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Pond 1P: BIO - SMA#1

Inflow Area = 0.104 ac, 55.77% Impervious, Inflow Depth = 0.36" for 1yr event
 Inflow = 0.06 cfs @ 11.99 hrs, Volume= 0.003 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 259.26' @ 24.36 hrs Surf.Area= 340 sf Storage= 135 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	260.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	258.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.50	50	0	0
262.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
258.33	340	110.0	40.0	0	0	340
259.00	340	110.0	20.0	46	46	414
261.50	340	110.0	100.0	850	896	689
262.50	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	262.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	260.00'	6.0" x 63.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 259.55' S= 0.0071 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=258.33' TW=259.05' (Dynamic Tailwater)

↑ 2=Culvert (Controls 0.00 cfs)

↑ 1=STANDPIPE (Controls 0.00 cfs)

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Summary for Pond 2P: BIO - SMA#2

Inflow Area = 0.103 ac, 57.28% Impervious, Inflow Depth = 0.39" for 1yr event
 Inflow = 0.06 cfs @ 11.99 hrs, Volume= 0.003 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 258.29' @ 24.36 hrs Surf.Area= 340 sf Storage= 146 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	259.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	257.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
259.50	50	0	0
261.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.33	340	110.0	40.0	0	0	340
258.00	340	110.0	20.0	46	46	414
260.50	340	110.0	100.0	850	896	689
261.50	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	261.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.00'	6.0" x 57.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 258.75' S= 0.0044 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=257.33' TW=258.25' (Dynamic Tailwater)

↑2=Culvert (Controls 0.00 cfs)
 ↑1=STANDPIPE (Controls 0.00 cfs)

Summary for Pond 3P: DRYWELL#2

Inflow Area = 0.100 ac, 60.00% Impervious, Inflow Depth = 0.00" for 1yr event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

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Peak Elev= 258.28' @ 0.00 hrs Surf.Area= 113 sf Storage= 0 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	258.28'	89 cf	12.00'D x 3.00'H STONE 339 cf Overall - 118 cf Embedded = 221 cf x 40.0% Voids
#2	258.95'	101 cf	8.00'D x 2.00'H DW1 - Vertical Cone/Cylinder Inside #1 118 cf Overall - 4.0" Wall Thickness = 101 cf
		189 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	258.28'	0.07 cfs Exfiltration at all elevations

Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=258.28' (Free Discharge)

↑**1=Exfiltration** (Passes 0.00 cfs of 0.07 cfs potential flow)

Summary for Pond 4P: REGATTA VIEW CULVERT

Inflow Area = 5.690 ac, 30.58% Impervious, Inflow Depth = 0.15" for 1yr event
Inflow = 0.38 cfs @ 12.59 hrs, Volume= 0.072 af
Outflow = 0.38 cfs @ 12.59 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min
Primary = 0.38 cfs @ 12.59 hrs, Volume= 0.072 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 257.07' @ 12.59 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	256.80'	18.0" x 80.0' long Culvert CPP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 256.15' S= 0.0081 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean

Primary OutFlow Max=0.38 cfs @ 12.59 hrs HW=257.07' TW=0.00' (Dynamic Tailwater)

↑**1=Culvert** (Inlet Controls 0.38 cfs @ 1.77 fps)

Summary for Pond 5P: BIO - SMA#3

Inflow Area = 0.120 ac, 66.67% Impervious, Inflow Depth = 0.57" for 1yr event
Inflow = 0.12 cfs @ 11.98 hrs, Volume= 0.006 af
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 259.60' @ 24.36 hrs Surf.Area= 340 sf Storage= 249 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= (not calculated: no outflow)

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Volume	Invert	Avail.Storage	Storage Description
#1	260.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	258.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.50	50	0	0
262.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
258.33	340	110.0	40.0	0	0	340
259.00	340	110.0	20.0	46	46	414
261.50	340	110.0	100.0	850	896	689
262.50	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	262.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.10'	6.0" x 60.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 258.75' S= 0.0058 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=258.33' TW=258.25' (Dynamic Tailwater)

↑2=Culvert (Controls 0.00 cfs)

↑1=STANDPIPE (Controls 0.00 cfs)

Summary for Pond 6P: BIO - SMA#4

Inflow Area = 0.100 ac, 60.00% Impervious, Inflow Depth = 0.42" for 1yr event
 Inflow = 0.07 cfs @ 11.99 hrs, Volume= 0.004 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 259.32' @ 24.36 hrs Surf.Area= 340 sf Storage= 153 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	260.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	258.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.50	50	0	0
262.50	50	100	100

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Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
258.33	340	110.0	40.0	0	0	340
259.00	340	110.0	20.0	46	46	414
261.50	340	110.0	100.0	850	896	689
262.50	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	262.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	260.50'	6.0" x 90.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 260.00' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=258.33' TW=257.83' (Dynamic Tailwater)

↑2=Culvert (Controls 0.00 cfs)

↑1=STANDPIPE (Controls 0.00 cfs)

Summary for Pond 7P: BIO - SMA#5

Inflow Area = 0.095 ac, 57.89% Impervious, Inflow Depth = 0.39" for 1yr event
 Inflow = 0.06 cfs @ 11.99 hrs, Volume= 0.003 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 258.26' @ 24.36 hrs Surf.Area= 340 sf Storage= 134 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	259.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	257.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
259.50	50	0	0
261.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.33	340	110.0	40.0	0	0	340
258.00	340	110.0	20.0	46	46	414
260.50	340	110.0	100.0	850	896	689
261.50	520	125.0	100.0	427	1,322	993

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Device	Routing	Invert	Outlet Devices
#1	Device 2	261.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.50'	6.0" x 100.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 259.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=257.33' TW=258.28' (Dynamic Tailwater)

↳ **2=Culvert** (Controls 0.00 cfs)

↳ **1=STANDPIPE** (Controls 0.00 cfs)

Summary for Pond 8P: BIO - SMA#6

Inflow Area = 0.095 ac, 57.89% Impervious, Inflow Depth = 0.39" for 1yr event
 Inflow = 0.06 cfs @ 11.99 hrs, Volume= 0.003 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 257.76' @ 24.36 hrs Surf.Area= 340 sf Storage= 134 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	258.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	256.83'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
258.50	50	0	0
260.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
256.83	340	110.0	40.0	0	0	340
257.50	340	110.0	20.0	46	46	414
260.00	340	110.0	100.0	850	896	689
261.00	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	260.50'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.40'	6.0" x 80.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 259.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=256.83' TW=258.28' (Dynamic Tailwater)

↳ **2=Culvert** (Controls 0.00 cfs)

↳ **1=STANDPIPE** (Controls 0.00 cfs)

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Summary for Pond 9P: ROOFTOP DISCONNECT

Inflow Area = 1.680 ac, 17.86% Impervious, Inflow Depth = 0.00" for 1yr event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 257.00' @ 0.00 hrs Surf.Area= 339 sf Storage= 0 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	257.00'	266 cf	12.00'D x 3.00'H STONE x 3 1,018 cf Overall - 354 cf Embedded = 664 cf x 40.0% Voids
#2	258.00'	302 cf	8.00'D x 2.00'H DW1 - Vertical Cone/Cylinder x 3 Inside #1 354 cf Overall - 4.0" Wall Thickness = 302 cf
#3	261.00'	4,294 cf	PONDING (Irregular) Listed below (Recalc)
		4,861 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
261.00	7,250	575.0	0	0	7,250
261.50	10,000	630.0	4,294	4,294	12,533

Device	Routing	Invert	Outlet Devices
#1	Discarded	257.00'	0.07 cfs Exfiltration X 3.00 at all elevations

Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=257.00' (Free Discharge)
 ↑1=Exfiltration (Passes 0.00 cfs of 0.21 cfs potential flow)

Summary for Pond 10P: BIO - SMA#8

Inflow Area = 0.100 ac, 60.00% Impervious, Inflow Depth = 0.42" for 1yr event
 Inflow = 0.07 cfs @ 11.99 hrs, Volume= 0.004 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 258.85' @ 24.36 hrs Surf.Area= 155 sf Storage= 153 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	259.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	257.33'	645 cf	BIORETENTION (Irregular) Listed below (Recalc)
		685 cf	Total Available Storage

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
259.50	50	0	0
261.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.33	155	110.0	40.0	0	0	155
258.00	155	110.0	20.0	21	21	229
260.50	155	110.0	100.0	388	408	504
261.50	330	120.0	100.0	237	645	720

Device	Routing	Invert	Outlet Devices
#1	Device 2	261.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.50'	6.0" x 54.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 259.20' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=257.33' TW=258.28' (Dynamic Tailwater)

↑2=Culvert (Controls 0.00 cfs)

↑1=STANDPIPE (Controls 0.00 cfs)

Summary for Pond 11P: INFILTRATOR #2

Inflow Area = 0.443 ac, 62.98% Impervious, Inflow Depth = 0.00" for 1yr event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 258.25' @ 0.00 hrs Surf.Area= 0.007 ac Storage= 0.000 af

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	258.25'	0.007 af	5.00'W x 60.00'L x 3.50'H Prismatic 0.024 af Overall - 0.007 af Embedded = 0.017 af x 40.0% Voids
#2	258.75'	0.007 af	44.6"W x 30.0"H x 7.12'L StormTech SC-740x 7 Inside #1
		0.014 af	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	258.25'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=258.25' (Free Discharge)

↑1=Exfiltration (Passes 0.00 cfs of 0.01 cfs potential flow)

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Summary for Pond 12P: BIO - SMA#7

Inflow Area = 0.140 ac, 64.29% Impervious, Inflow Depth = 0.53" for 1yr event
 Inflow = 0.13 cfs @ 11.98 hrs, Volume= 0.006 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 256.66' @ 24.36 hrs Surf.Area= 340 sf Storage= 270 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	257.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	255.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
257.50	50	0	0
259.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
255.33	340	110.0	40.0	0	0	340
256.00	340	110.0	20.0	46	46	414
258.50	340	110.0	100.0	850	896	689
259.50	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	259.00'	8.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	257.95'	8.0" x 36.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 257.75' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=255.33' TW=257.25' (Dynamic Tailwater)

↑2=Culvert (Controls 0.00 cfs)
 ↑1=STANDPIPE (Controls 0.00 cfs)

Summary for Pond 13P: BIO - SMA#9

Inflow Area = 0.110 ac, 63.64% Impervious, Inflow Depth = 0.53" for 1yr event
 Inflow = 0.10 cfs @ 11.98 hrs, Volume= 0.005 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

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Peak Elev= 260.04' @ 24.36 hrs Surf.Area= 180 sf Storage= 212 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	260.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	258.33'	746 cf	BIORETENTION (Irregular) Listed below (Recalc)
		786 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.50	50	0	0
262.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
258.33	180	125.0	40.0	0	0	180
259.00	180	125.0	20.0	24	24	264
261.50	180	125.0	100.0	450	474	576
262.50	375	135.0	100.0	272	746	821

Device	Routing	Invert	Outlet Devices
#1	Device 2	262.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	260.50'	6.0" x 110.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 260.00' S= 0.0045 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=258.33' TW=257.83' (Dynamic Tailwater)

↑2=Culvert (Controls 0.00 cfs)

↑1=STANDPIPE (Controls 0.00 cfs)

Summary for Pond 14P: BIO - SMA#10

Inflow Area = 0.120 ac, 66.67% Impervious, Inflow Depth = 0.57" for 1yr event
 Inflow = 0.12 cfs @ 11.98 hrs, Volume= 0.006 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 260.02' @ 24.36 hrs Surf.Area= 200 sf Storage= 249 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= (not calculated: no outflow)

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Volume	Invert	Avail.Storage	Storage Description
#1	260.00'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	257.83'	625 cf	BIORETENTION (Irregular) Listed below (Recalc)
		665 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.00	50	0	0
262.00	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.83	150	105.0	40.0	0	0	150
258.50	150	105.0	20.0	20	20	220
261.00	150	105.0	100.0	375	395	483
262.00	320	120.0	100.0	230	625	774

Device	Routing	Invert	Outlet Devices
#1	Device 2	261.50'	8.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.10'	8.0" x 56.0' long CULVERT CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 258.75' S= 0.0063 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=257.83' TW=258.25' (Dynamic Tailwater)

↑2=CULVERT (Controls 0.00 cfs)

↑1=STANDPIPE (Controls 0.00 cfs)

Summary for Pond 15P: BIO - SMA#11

Inflow Area = 0.100 ac, 60.00% Impervious, Inflow Depth = 0.42" for 1yr event
 Inflow = 0.07 cfs @ 11.99 hrs, Volume= 0.004 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 258.85' @ 24.36 hrs Surf.Area= 155 sf Storage= 153 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	259.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	257.33'	645 cf	BIORETENTION (Irregular) Listed below (Recalc)
		685 cf	Total Available Storage

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
259.50	50	0	0
261.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.33	155	110.0	40.0	0	0	155
258.00	155	110.0	20.0	21	21	229
260.50	155	110.0	100.0	388	408	504
261.50	330	125.0	100.0	237	645	808

Device	Routing	Invert	Outlet Devices
#1	Device 2	261.00'	8.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.00'	8.0" x 53.0' long CULVERT CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 258.75' S= 0.0047 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=257.33' TW=258.25' (Dynamic Tailwater)

↑2=CULVERT (Controls 0.00 cfs)

↑1=STANDPIPE (Controls 0.00 cfs)

Summary for Pond 16P: BIO - SMA#12

Inflow Area = 0.100 ac, 60.00% Impervious, Inflow Depth = 0.42" for 1yr event
 Inflow = 0.07 cfs @ 11.99 hrs, Volume= 0.004 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 259.85' @ 24.36 hrs Surf.Area= 155 sf Storage= 153 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	260.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	258.33'	645 cf	BIORETENTION (Irregular) Listed below (Recalc)
		685 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.50	50	0	0
262.50	50	100	100

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Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
258.33	155	110.0	40.0	0	0	155
259.00	155	110.0	20.0	21	21	229
261.50	155	110.0	100.0	388	408	504
262.50	330	125.0	100.0	237	645	808

Device	Routing	Invert	Outlet Devices
#1	Device 2	262.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	260.00'	6.0" x 83.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 259.55' S= 0.0054 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=258.33' TW=259.05' (Dynamic Tailwater)

↑2=Culvert (Controls 0.00 cfs)

↑1=STANDPIPE (Controls 0.00 cfs)

Summary for Pond 17P: ROOFTOP DISCONNECT

Inflow Area = 3.260 ac, 12.27% Impervious, Inflow Depth = 0.00" for 1yr event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 260.00' @ 0.00 hrs Surf.Area= 7,000 sf Storage= 0 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	260.00'	7,000 cf	DISCONNECT (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.00	7,000	0	0
261.00	7,000	7,000	7,000

Device	Routing	Invert	Outlet Devices
#1	Primary	261.00'	700.0' long x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=260.00' TW=256.80' (Dynamic Tailwater)

↑1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

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Summary for Pond 18P: DRYWELL#1

Inflow Area = 0.210 ac, 61.90% Impervious, Inflow Depth = 0.00" for 1yr event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 257.83' @ 0.00 hrs Surf.Area= 113 sf Storage= 0 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	257.83'	111 cf	12.00'D x 3.50'H STONE 396 cf Overall - 118 cf Embedded = 278 cf x 40.0% Voids
#2	258.50'	101 cf	8.00'D x 2.00'H DW1 - Vertical Cone/Cylinder Inside #1 118 cf Overall - 4.0" Wall Thickness = 101 cf
		212 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	257.83'	0.07 cfs Exfiltration at all elevations

Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=257.83' (Free Discharge)
 ↳ **1=Exfiltration** (Passes 0.00 cfs of 0.07 cfs potential flow)

Summary for Pond 19P: INFILTRATOR #3

Inflow Area = 0.220 ac, 63.64% Impervious, Inflow Depth = 0.00" for 1yr event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 258.25' @ 0.00 hrs Surf.Area= 750 sf Storage= 0 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	258.25'	682 cf	5.00'W x 75.00'L x 3.50'H Prisma x 2 2,625 cf Overall - 919 cf Embedded = 1,706 cf x 40.0% Voids
#2	258.75'	919 cf	44.6"W x 30.0"H x 7.12'L StormTech SC-740 x 20 Inside #1
		1,601 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	258.25'	1.000 in/hr Exfiltration over Surface area
#2	Primary	260.25'	6.0" x 44.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 260.00' S= 0.0057 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

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Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=258.25' (Free Discharge)

↑1=**Exfiltration** (Passes 0.00 cfs of 0.02 cfs potential flow)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=258.25' TW=258.25' (Dynamic Tailwater)

↑2=**Culvert** (Controls 0.00 cfs)

Summary for Pond 20P: INFILTRATOR #4

Inflow Area = 0.140 ac, 64.29% Impervious, Inflow Depth = 0.00" for 1yr event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 257.25' @ 0.00 hrs Surf.Area= 0.007 ac Storage= 0.000 af

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	257.25'	0.007 af	5.00'W x 60.00'L x 3.50'H Prismatic 0.024 af Overall - 0.007 af Embedded = 0.017 af x 40.0% Voids
#2	257.75'	0.007 af	44.6"W x 30.0"H x 7.12'L StormTech SC-740x7 Inside #1
		0.014 af	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	257.25'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=257.25' (Free Discharge)

↑1=**Exfiltration** (Passes 0.00 cfs of 0.01 cfs potential flow)

Summary for Pond 21P: BIO - SMA#13

Inflow Area = 0.140 ac, 71.43% Impervious, Inflow Depth = 0.70" for 1yr event
 Inflow = 0.17 cfs @ 11.98 hrs, Volume= 0.008 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 256.98' @ 24.36 hrs Surf.Area= 320 sf Storage= 357 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	257.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	255.33'	1,268 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,308 cf	Total Available Storage

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
257.50	50	0	0
259.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
255.33	320	140.0	40.0	0	0	320
256.00	320	140.0	20.0	43	43	414
258.50	320	140.0	100.0	800	843	764
259.50	540	150.0	100.0	425	1,268	1,036

Device	Routing	Invert	Outlet Devices
#1	Device 2	259.00'	8.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	257.20'	8.0" x 34.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 257.00' S= 0.0059 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=255.33' TW=256.50' (Dynamic Tailwater)

↑2=Culvert (Controls 0.00 cfs)

↑1=STANDPIPE (Controls 0.00 cfs)

Summary for Pond 22P: POROUS SECTION

Inflow Area = 0.011 ac, 100.00% Impervious, Inflow Depth = 1.92" for 1yr event
 Inflow = 0.00 cfs @ 14.80 hrs, Volume= 0.002 af
 Outflow = 0.00 cfs @ 14.80 hrs, Volume= 0.002 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 14.80 hrs, Volume= 0.002 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 257.00' @ 0.00 hrs Surf.Area= 460 sf Storage= 0 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 0.0 min (970.9 - 970.9)

Volume	Invert	Avail.Storage	Storage Description
#1	257.00'	276 cf	POROUS (Irregular) Listed below (Recalc) 690 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.00	460	85.0	0	0	460
258.50	460	85.0	690	690	588

Device	Routing	Invert	Outlet Devices
#1	Discarded	257.00'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.00 cfs @ 14.80 hrs HW=257.00' (Free Discharge)

↑1=Exfiltration (Passes 0.00 cfs of 0.01 cfs potential flow)

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Summary for Pond 23P: POROUS SECTION

Inflow Area = 0.037 ac, 100.00% Impervious, Inflow Depth = 1.92" for 1yr event
 Inflow = 0.01 cfs @ 14.80 hrs, Volume= 0.006 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 257.40' @ 36.84 hrs Surf.Area= 1,600 sf Storage= 256 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	257.00'	960 cf	POROUS (Irregular) Listed below (Recalc) 2,400 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.00	1,600	210.0	0	0	1,600
258.50	1,600	210.0	2,400	2,400	1,915

Summary for Pond 24P: INFILTRATOR #1

Inflow Area = 0.204 ac, 57.84% Impervious, Inflow Depth = 0.00" for 1yr event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 259.05' @ 0.00 hrs Surf.Area= 0.007 ac Storage= 0.000 af

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	259.05'	0.007 af	5.00'W x 60.00'L x 3.50'H Prismaoid 0.024 af Overall - 0.007 af Embedded = 0.017 af x 40.0% Voids
#2	259.55'	0.007 af	44.6"W x 30.0"H x 7.12'L StormTech SC-740x 7 Inside #1
		0.014 af	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	259.05'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=259.05' (Free Discharge)
 ↑**1=Exfiltration** (Passes 0.00 cfs of 0.01 cfs potential flow)

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Type II 24-hr 1yr Rainfall=2.15"

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Summary for Pond 25P: DRYWELL#3

Inflow Area = 0.190 ac, 57.89% Impervious, Inflow Depth = 0.00" for 1yr event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 258.28' @ 0.00 hrs Surf.Area= 113 sf Storage= 0 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	258.28'	89 cf	12.00'D x 3.00'H STONE 339 cf Overall - 118 cf Embedded = 221 cf x 40.0% Voids
#2	258.95'	101 cf	8.00'D x 2.00'H DW1 - Vertical Cone/Cylinder Inside #1 118 cf Overall - 4.0" Wall Thickness = 101 cf
		189 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	258.28'	0.07 cfs Exfiltration at all elevations

Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=258.28' (Free Discharge)
 ↑1=Exfiltration (Passes 0.00 cfs of 0.07 cfs potential flow)

Summary for Pond 26P: INFILTRATOR #5

Inflow Area = 0.140 ac, 71.43% Impervious, Inflow Depth = 0.00" for 1yr event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 256.50' @ 0.00 hrs Surf.Area= 0.007 ac Storage= 0.000 af

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	256.50'	0.007 af	5.00'W x 60.00'L x 3.50'H Prismatic 0.024 af Overall - 0.007 af Embedded = 0.017 af x 40.0% Voids
#2	257.00'	0.007 af	44.6"W x 30.0"H x 7.12'L StormTech SC-740x7 Inside #1
		0.014 af	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	256.50'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=256.50' (Free Discharge)
 ↑1=Exfiltration (Passes 0.00 cfs of 0.01 cfs potential flow)

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Type II 24-hr 1yr Rainfall=2.15"

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Summary for Link A: DESIGN POINT

Inflow Area = 5.690 ac, 30.58% Impervious, Inflow Depth = 0.15" for 1yr event
Inflow = 0.38 cfs @ 12.59 hrs, Volume= 0.072 af
Primary = 0.38 cfs @ 12.59 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

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Type II 24-hr 10yr Rainfall=3.90"

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Time span=0.00-100.00 hrs, dt=0.04 hrs, 2501 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 1S: -	Runoff Area=2.430 ac 55.14% Impervious Runoff Depth=1.39" Flow Length=1,300' Tc=48.7 min CN=72 Runoff=1.97 cfs 0.282 af
Subcatchment 2S: POROUS - SINGLE	Runoff Area=460 sf 100.00% Impervious Runoff Depth=3.67" Tc=230.0 min CN=98 Runoff=0.01 cfs 0.003 af
Subcatchment 24S: POROUS - SHARED	Runoff Area=1,600 sf 100.00% Impervious Runoff Depth=3.67" Tc=230.0 min CN=98 Runoff=0.02 cfs 0.011 af
Subcatchment B1: -	Runoff Area=0.104 ac 55.77% Impervious Runoff Depth=1.39" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=72 Runoff=0.25 cfs 0.012 af
Subcatchment B10: -	Runoff Area=0.120 ac 66.67% Impervious Runoff Depth=1.81" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=78 Runoff=0.38 cfs 0.018 af
Subcatchment B11: -	Runoff Area=0.100 ac 60.00% Impervious Runoff Depth=1.52" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=74 Runoff=0.27 cfs 0.013 af
Subcatchment B12: -	Runoff Area=0.100 ac 60.00% Impervious Runoff Depth=1.52" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=74 Runoff=0.27 cfs 0.013 af
Subcatchment B13: -	Runoff Area=0.140 ac 71.43% Impervious Runoff Depth=2.04" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=81 Runoff=0.50 cfs 0.024 af
Subcatchment B14: -	Runoff Area=1.680 ac 17.86% Impervious Runoff Depth=0.18" Flow Length=345' Tc=33.1 min CN=46 Runoff=0.05 cfs 0.025 af
Subcatchment B15: -	Runoff Area=3.260 ac 12.27% Impervious Runoff Depth=0.07" Flow Length=1,070' Tc=50.3 min CN=41 Runoff=0.02 cfs 0.018 af
Subcatchment B2: -	Runoff Area=0.103 ac 57.28% Impervious Runoff Depth=1.46" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=73 Runoff=0.26 cfs 0.012 af
Subcatchment B3: -	Runoff Area=0.120 ac 66.67% Impervious Runoff Depth=1.81" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=78 Runoff=0.38 cfs 0.018 af
Subcatchment B4: -	Runoff Area=0.100 ac 60.00% Impervious Runoff Depth=1.52" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=74 Runoff=0.27 cfs 0.013 af
Subcatchment B5: -	Runoff Area=0.095 ac 57.89% Impervious Runoff Depth=1.46" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=73 Runoff=0.24 cfs 0.012 af
Subcatchment B6: -	Runoff Area=0.095 ac 57.89% Impervious Runoff Depth=1.46" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=73 Runoff=0.24 cfs 0.012 af
Subcatchment B7: -	Runoff Area=0.140 ac 64.29% Impervious Runoff Depth=1.73" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=77 Runoff=0.43 cfs 0.020 af

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Subcatchment B8: -	Runoff Area=0.100 ac 60.00% Impervious Runoff Depth=1.52" Flow Length=120' Slope=0.0100 '/' Tc=6.0 min CN=74 Runoff=0.27 cfs 0.013 af
Subcatchment B9: -	Runoff Area=0.110 ac 63.64% Impervious Runoff Depth=1.73" Flow Length=120' Slope=0.0100 '/' Tc=6.0 min CN=77 Runoff=0.34 cfs 0.016 af
Pond 1P: BIO - SMA#1	Peak Elev=260.41' Storage=525 cf Inflow=0.25 cfs 0.012 af Outflow=0.00 cfs 0.000 af
Pond 2P: BIO - SMA#2	Peak Elev=259.47' Storage=544 cf Inflow=0.26 cfs 0.012 af Outflow=0.00 cfs 0.000 af
Pond 3P: DRYWELL#2	Peak Elev=258.28' Storage=0 cf Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Pond 4P: REGATTA VIEW CULVERT	Peak Elev=257.44' Inflow=1.97 cfs 0.282 af 18.0" x 80.0' Culvert Outflow=1.97 cfs 0.282 af
Pond 5P: BIO - SMA#3	Peak Elev=261.14' Storage=787 cf Inflow=0.38 cfs 0.018 af Outflow=0.00 cfs 0.000 af
Pond 6P: BIO - SMA#4	Peak Elev=260.49' Storage=553 cf Inflow=0.27 cfs 0.013 af Outflow=0.00 cfs 0.000 af
Pond 7P: BIO - SMA#5	Peak Elev=259.34' Storage=502 cf Inflow=0.24 cfs 0.012 af Outflow=0.00 cfs 0.000 af
Pond 8P: BIO - SMA#6	Peak Elev=258.82' Storage=502 cf Inflow=0.24 cfs 0.012 af Outflow=0.00 cfs 0.000 af
Pond 9P: ROOFTOP DISCONNECT	Peak Elev=257.00' Storage=0 cf Inflow=0.05 cfs 0.025 af Outflow=0.05 cfs 0.025 af
Pond 10P: BIO - SMA#8	Peak Elev=261.01' Storage=537 cf Inflow=0.27 cfs 0.013 af Outflow=0.00 cfs 0.000 af
Pond 11P: INFILTRATOR#2	Peak Elev=258.25' Storage=0.000 af Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Pond 12P: BIO - SMA#7	Peak Elev=258.40' Storage=881 cf Inflow=0.43 cfs 0.020 af Outflow=0.00 cfs 0.000 af
Pond 13P: BIO - SMA#9	Peak Elev=262.01' Storage=618 cf Inflow=0.34 cfs 0.016 af Outflow=0.00 cfs 0.002 af
Pond 14P: BIO - SMA#10	Peak Elev=261.52' Storage=523 cf Inflow=0.38 cfs 0.018 af Outflow=0.02 cfs 0.006 af
Pond 15P: BIO - SMA#11	Peak Elev=261.01' Storage=536 cf Inflow=0.27 cfs 0.013 af Outflow=0.00 cfs 0.000 af
Pond 16P: BIO - SMA#12	Peak Elev=262.01' Storage=537 cf Inflow=0.27 cfs 0.013 af Outflow=0.00 cfs 0.000 af

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Pond 17P: ROOFTOP DISCONNECT Peak Elev=260.11' Storage=802 cf Inflow=0.02 cfs 0.018 af
Outflow=0.00 cfs 0.000 af

Pond 18P: DRYWELL#1 Peak Elev=257.83' Storage=0 cf Inflow=0.00 cfs 0.002 af
Outflow=0.00 cfs 0.002 af

Pond 19P: INFILTRATOR#3 Peak Elev=258.25' Storage=0 cf Inflow=0.02 cfs 0.007 af
Discarded=0.02 cfs 0.007 af Primary=0.00 cfs 0.000 af Outflow=0.02 cfs 0.007 af

Pond 20P: INFILTRATOR#4 Peak Elev=257.25' Storage=0.000 af Inflow=0.00 cfs 0.000 af
Outflow=0.00 cfs 0.000 af

Pond 21P: BIO - SMA#13 Peak Elev=258.95' Storage=1,036 cf Inflow=0.50 cfs 0.024 af
Outflow=0.00 cfs 0.000 af

Pond 22P: POROUS SECTION Peak Elev=257.00' Storage=0 cf Inflow=0.01 cfs 0.003 af
Outflow=0.01 cfs 0.003 af

Pond 23P: POROUS SECTION Peak Elev=257.76' Storage=489 cf Inflow=0.02 cfs 0.011 af
Outflow=0.00 cfs 0.000 af

Pond 24P: INFILTRATOR#1 Peak Elev=259.05' Storage=0.000 af Inflow=0.00 cfs 0.000 af
Outflow=0.00 cfs 0.000 af

Pond 25P: DRYWELL#3 Peak Elev=258.28' Storage=0 cf Inflow=0.00 cfs 0.000 af
Outflow=0.00 cfs 0.000 af

Pond 26P: INFILTRATOR#5 Peak Elev=256.50' Storage=0.000 af Inflow=0.00 cfs 0.000 af
Outflow=0.00 cfs 0.000 af

Link A: DESIGN POINT Inflow=1.97 cfs 0.282 af
Primary=1.97 cfs 0.282 af

Total Runoff Area = 8.844 ac Runoff Volume = 0.534 af Average Runoff Depth = 0.72"
66.37% Pervious = 5.870 ac 33.63% Impervious = 2.974 ac

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Summary for Subcatchment 1S: -

Runoff = 1.97 cfs @ 12.51 hrs, Volume= 0.282 af, Depth= 1.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

Area (ac)	CN	Description
1.340	98	Paved parking & roofs
1.090	39	>75% Grass cover, Good, HSG A
2.430	72	Weighted Average
1.090		Pervious Area
1.340		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	100	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 2.50"
34.1	1,200	0.0070	0.59		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
48.7	1,300	Total			

Summary for Subcatchment 2S: POROUS - SINGLE DRIVEWAY

Runoff = 0.01 cfs @ 14.79 hrs, Volume= 0.003 af, Depth= 3.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

Area (sf)	CN	Description
460	98	Paved parking & roofs
460		Impervious Area

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

Summary for Subcatchment 24S: POROUS - SHARED DRIVEWAY

Runoff = 0.02 cfs @ 14.79 hrs, Volume= 0.011 af, Depth= 3.67"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

Area (sf)	CN	Description
1,600	98	Paved parking & roofs
1,600		Impervious Area

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Type II 24-hr 10yr Rainfall=3.90"

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

Summary for Subcatchment B1: -

Runoff = 0.25 cfs @ 11.98 hrs, Volume= 0.012 af, Depth= 1.39"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

Area (ac)	CN	Description
0.058	98	Paved parking & roofs
0.046	39	>75% Grass cover, Good, HSG A
0.104	72	Weighted Average
0.046		Pervious Area
0.058		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B10: -

Runoff = 0.38 cfs @ 11.97 hrs, Volume= 0.018 af, Depth= 1.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

Area (ac)	CN	Description
0.080	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.120	78	Weighted Average
0.040		Pervious Area
0.080		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

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Type II 24-hr 10yr Rainfall=3.90"

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Summary for Subcatchment B11: -

Runoff = 0.27 cfs @ 11.98 hrs, Volume= 0.013 af, Depth= 1.52"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

Area (ac)	CN	Description
0.060	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.100	74	Weighted Average
0.040		Pervious Area
0.060		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B12: -

Runoff = 0.27 cfs @ 11.98 hrs, Volume= 0.013 af, Depth= 1.52"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

Area (ac)	CN	Description
0.060	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.100	74	Weighted Average
0.040		Pervious Area
0.060		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B13: -

Runoff = 0.50 cfs @ 11.97 hrs, Volume= 0.024 af, Depth= 2.04"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

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Area (ac)	CN	Description
0.100	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.140	81	Weighted Average
0.040		Pervious Area
0.100		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B14: -

Runoff = 0.05 cfs @ 12.74 hrs, Volume= 0.025 af, Depth= 0.18"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

Area (ac)	CN	Description
0.690	30	Woods, Good, HSG A
0.690	39	>75% Grass cover, Good, HSG A
0.300	98	Paved parking & roofs
1.680	46	Weighted Average
1.380		Pervious Area
0.300		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.3	100	0.0150	0.06		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 2.50"
5.8	245	0.0100	0.70		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
33.1	345	Total			

Summary for Subcatchment B15: -

Runoff = 0.02 cfs @ 15.92 hrs, Volume= 0.018 af, Depth= 0.07"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

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Area (ac)	CN	Description
0.400	98	Paved parking & roofs
1.830	30	Woods, Good, HSG A
1.030	39	>75% Grass cover, Good, HSG A
3.260	41	Weighted Average
2.860		Pervious Area
0.400		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	100	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 2.50"
10.8	230	0.0050	0.35		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
24.9	740	0.0050	0.49		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
50.3	1,070	Total			

Summary for Subcatchment B2: -

Runoff = 0.26 cfs @ 11.98 hrs, Volume= 0.012 af, Depth= 1.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

Area (ac)	CN	Description
0.059	98	Paved parking & roofs
0.044	39	>75% Grass cover, Good, HSG A
0.103	73	Weighted Average
0.044		Pervious Area
0.059		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B3: -

Runoff = 0.38 cfs @ 11.97 hrs, Volume= 0.018 af, Depth= 1.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

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Area (ac)	CN	Description
0.080	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.120	78	Weighted Average
0.040		Pervious Area
0.080		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B4: -

Runoff = 0.27 cfs @ 11.98 hrs, Volume= 0.013 af, Depth= 1.52"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

Area (ac)	CN	Description
0.060	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.100	74	Weighted Average
0.040		Pervious Area
0.060		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B5: -

Runoff = 0.24 cfs @ 11.98 hrs, Volume= 0.012 af, Depth= 1.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

Area (ac)	CN	Description
0.055	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.095	73	Weighted Average
0.040		Pervious Area
0.055		Impervious Area

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Type II 24-hr 10yr Rainfall=3.90"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B6: -

Runoff = 0.24 cfs @ 11.98 hrs, Volume= 0.012 af, Depth= 1.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

Area (ac)	CN	Description
0.055	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.095	73	Weighted Average
0.040		Pervious Area
0.055		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B7: -

Runoff = 0.43 cfs @ 11.97 hrs, Volume= 0.020 af, Depth= 1.73"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

Area (ac)	CN	Description
0.090	98	Paved parking & roofs
0.050	39	>75% Grass cover, Good, HSG A
0.140	77	Weighted Average
0.050		Pervious Area
0.090		Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B8: -

Runoff = 0.27 cfs @ 11.98 hrs, Volume= 0.013 af, Depth= 1.52"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

Area (ac)	CN	Description
0.060	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.100	74	Weighted Average
0.040		Pervious Area
0.060		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B9: -

Runoff = 0.34 cfs @ 11.97 hrs, Volume= 0.016 af, Depth= 1.73"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 10yr Rainfall=3.90"

Area (ac)	CN	Description
0.070	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.110	77	Weighted Average
0.040		Pervious Area
0.070		Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Pond 1P: BIO - SMA#1

Inflow Area = 0.104 ac, 55.77% Impervious, Inflow Depth = 1.39" for 10yr event
 Inflow = 0.25 cfs @ 11.98 hrs, Volume= 0.012 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 260.41' @ 24.36 hrs Surf.Area= 340 sf Storage= 525 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	260.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	258.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.50	50	0	0
262.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
258.33	340	110.0	40.0	0	0	340
259.00	340	110.0	20.0	46	46	414
261.50	340	110.0	100.0	850	896	689
262.50	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	262.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	260.00'	6.0" x 63.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 259.55' S= 0.0071 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=258.33' TW=259.05' (Dynamic Tailwater)

↑ 2=Culvert (Controls 0.00 cfs)

↑ 1=STANDPIPE (Controls 0.00 cfs)

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Summary for Pond 2P: BIO - SMA#2

Inflow Area = 0.103 ac, 57.28% Impervious, Inflow Depth = 1.46" for 10yr event
 Inflow = 0.26 cfs @ 11.98 hrs, Volume= 0.012 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 259.47' @ 24.36 hrs Surf.Area= 340 sf Storage= 544 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	259.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	257.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
259.50	50	0	0
261.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.33	340	110.0	40.0	0	0	340
258.00	340	110.0	20.0	46	46	414
260.50	340	110.0	100.0	850	896	689
261.50	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	261.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.00'	6.0" x 57.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 258.75' S= 0.0044 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=257.33' TW=258.25' (Dynamic Tailwater)

↑2=Culvert (Controls 0.00 cfs)
 ↑1=STANDPIPE (Controls 0.00 cfs)

Summary for Pond 3P: DRYWELL#2

Inflow Area = 0.100 ac, 60.00% Impervious, Inflow Depth = 0.05" for 10yr event
 Inflow = 0.00 cfs @ 23.21 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 23.21 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 23.21 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

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Peak Elev= 258.28' @ 0.00 hrs Surf.Area= 113 sf Storage= 0 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 0.0 min (1,409.4 - 1,409.4)

Volume	Invert	Avail.Storage	Storage Description
#1	258.28'	89 cf	12.00'D x 3.00'H STONE 339 cf Overall - 118 cf Embedded = 221 cf x 40.0% Voids
#2	258.95'	101 cf	8.00'D x 2.00'H DW1 - Vertical Cone/Cylinder Inside #1 118 cf Overall - 4.0" Wall Thickness = 101 cf
		189 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	258.28'	0.07 cfs Exfiltration at all elevations

Discarded OutFlow Max=0.00 cfs @ 23.21 hrs HW=258.28' (Free Discharge)

↑**1=Exfiltration** (Passes 0.00 cfs of 0.07 cfs potential flow)

Summary for Pond 4P: REGATTA VIEW CULVERT

Inflow Area = 5.690 ac, 30.58% Impervious, Inflow Depth = 0.59" for 10yr event
Inflow = 1.97 cfs @ 12.51 hrs, Volume= 0.282 af
Outflow = 1.97 cfs @ 12.51 hrs, Volume= 0.282 af, Atten= 0%, Lag= 0.0 min
Primary = 1.97 cfs @ 12.51 hrs, Volume= 0.282 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 257.44' @ 12.51 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	256.80'	18.0" x 80.0' long Culvert CPP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 256.15' S= 0.0081 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean

Primary OutFlow Max=1.97 cfs @ 12.51 hrs HW=257.44' TW=0.00' (Dynamic Tailwater)

↑**1=Culvert** (Inlet Controls 1.97 cfs @ 2.73 fps)

Summary for Pond 5P: BIO - SMA#3

Inflow Area = 0.120 ac, 66.67% Impervious, Inflow Depth = 1.81" for 10yr event
Inflow = 0.38 cfs @ 11.97 hrs, Volume= 0.018 af
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 261.14' @ 24.36 hrs Surf.Area= 390 sf Storage= 787 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= (not calculated: no outflow)

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Volume	Invert	Avail.Storage	Storage Description
#1	260.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	258.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.50	50	0	0
262.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
258.33	340	110.0	40.0	0	0	340
259.00	340	110.0	20.0	46	46	414
261.50	340	110.0	100.0	850	896	689
262.50	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	262.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.10'	6.0" x 60.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 258.75' S= 0.0058 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=258.33' TW=258.25' (Dynamic Tailwater)

↑2=Culvert (Controls 0.00 cfs)

↑1=STANDPIPE (Controls 0.00 cfs)

Summary for Pond 6P: BIO - SMA#4

Inflow Area = 0.100 ac, 60.00% Impervious, Inflow Depth = 1.52" for 10yr event
 Inflow = 0.27 cfs @ 11.98 hrs, Volume= 0.013 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 260.49' @ 24.36 hrs Surf.Area= 340 sf Storage= 553 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	260.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	258.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.50	50	0	0
262.50	50	100	100

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Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
258.33	340	110.0	40.0	0	0	340
259.00	340	110.0	20.0	46	46	414
261.50	340	110.0	100.0	850	896	689
262.50	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	262.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	260.50'	6.0" x 90.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 260.00' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=258.33' TW=257.83' (Dynamic Tailwater)

↑2=Culvert (Controls 0.00 cfs)

↑1=STANDPIPE (Controls 0.00 cfs)

Summary for Pond 7P: BIO - SMA#5

Inflow Area = 0.095 ac, 57.89% Impervious, Inflow Depth = 1.46" for 10yr event
 Inflow = 0.24 cfs @ 11.98 hrs, Volume= 0.012 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 259.34' @ 24.36 hrs Surf.Area= 340 sf Storage= 502 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	259.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	257.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
259.50	50	0	0
261.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.33	340	110.0	40.0	0	0	340
258.00	340	110.0	20.0	46	46	414
260.50	340	110.0	100.0	850	896	689
261.50	520	125.0	100.0	427	1,322	993

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Device	Routing	Invert	Outlet Devices
#1	Device 2	261.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.50'	6.0" x 100.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 259.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=257.33' TW=258.28' (Dynamic Tailwater)

↳ **2=Culvert** (Controls 0.00 cfs)

↳ **1=STANDPIPE** (Controls 0.00 cfs)

Summary for Pond 8P: BIO - SMA#6

Inflow Area = 0.095 ac, 57.89% Impervious, Inflow Depth = 1.46" for 10yr event
 Inflow = 0.24 cfs @ 11.98 hrs, Volume= 0.012 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 258.82' @ 24.36 hrs Surf.Area= 390 sf Storage= 502 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	258.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	256.83'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
258.50	50	0	0
260.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
256.83	340	110.0	40.0	0	0	340
257.50	340	110.0	20.0	46	46	414
260.00	340	110.0	100.0	850	896	689
261.00	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	260.50'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.40'	6.0" x 80.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 259.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=256.83' TW=258.28' (Dynamic Tailwater)

↳ **2=Culvert** (Controls 0.00 cfs)

↳ **1=STANDPIPE** (Controls 0.00 cfs)

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Summary for Pond 9P: ROOFTOP DISCONNECT

Inflow Area = 1.680 ac, 17.86% Impervious, Inflow Depth = 0.18" for 10yr event
 Inflow = 0.05 cfs @ 12.74 hrs, Volume= 0.025 af
 Outflow = 0.05 cfs @ 12.74 hrs, Volume= 0.025 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.05 cfs @ 12.74 hrs, Volume= 0.025 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 257.00' @ 0.00 hrs Surf.Area= 339 sf Storage= 0 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 0.0 min (1,027.1 - 1,027.1)

Volume	Invert	Avail.Storage	Storage Description
#1	257.00'	266 cf	12.00'D x 3.00'H STONE x 3 1,018 cf Overall - 354 cf Embedded = 664 cf x 40.0% Voids
#2	258.00'	302 cf	8.00'D x 2.00'H DW1 - Vertical Cone/Cylinder x 3 Inside #1 354 cf Overall - 4.0" Wall Thickness = 302 cf
#3	261.00'	4,294 cf	PONDING (Irregular) Listed below (Recalc)
		4,861 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
261.00	7,250	575.0	0	0	7,250
261.50	10,000	630.0	4,294	4,294	12,533

Device	Routing	Invert	Outlet Devices
#1	Discarded	257.00'	0.07 cfs Exfiltration X 3.00 at all elevations

Discarded OutFlow Max=0.00 cfs @ 12.74 hrs HW=257.00' (Free Discharge)
 ↑1=Exfiltration (Passes 0.00 cfs of 0.21 cfs potential flow)

Summary for Pond 10P: BIO - SMA#8

Inflow Area = 0.100 ac, 60.00% Impervious, Inflow Depth = 1.52" for 10yr event
 Inflow = 0.27 cfs @ 11.98 hrs, Volume= 0.013 af
 Outflow = 0.00 cfs @ 23.21 hrs, Volume= 0.000 af, Atten= 99%, Lag= 674.0 min
 Primary = 0.00 cfs @ 23.21 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 261.01' @ 23.21 hrs Surf.Area= 286 sf Storage= 537 cf

Plug-Flow detention time= 732.5 min calculated for 0.000 af (3% of inflow)
 Center-of-Mass det. time= 562.4 min (1,409.4 - 847.0)

Volume	Invert	Avail.Storage	Storage Description
#1	259.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	257.33'	645 cf	BIORETENTION (Irregular) Listed below (Recalc)
		685 cf	Total Available Storage

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
259.50	50	0	0
261.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.33	155	110.0	40.0	0	0	155
258.00	155	110.0	20.0	21	21	229
260.50	155	110.0	100.0	388	408	504
261.50	330	120.0	100.0	237	645	720

Device	Routing	Invert	Outlet Devices
#1	Device 2	261.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.50'	6.0" x 54.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 259.20' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 23.21 hrs HW=261.01' TW=258.28' (Dynamic Tailwater)

↑2=Culvert (Passes 0.00 cfs of 0.73 cfs potential flow)
 ↑1=STANDPIPE (Weir Controls 0.00 cfs @ 0.28 fps)

Summary for Pond 11P: INFILTRATOR #2

Inflow Area = 0.443 ac, 62.98% Impervious, Inflow Depth = 0.00" for 10yr event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 258.25' @ 0.00 hrs Surf.Area= 0.007 ac Storage= 0.000 af

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	258.25'	0.007 af	5.00'W x 60.00'L x 3.50'H Prismatic 0.024 af Overall - 0.007 af Embedded = 0.017 af x 40.0% Voids
#2	258.75'	0.007 af	44.6"W x 30.0"H x 7.12'L StormTech SC-740x 7 Inside #1
		0.014 af	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	258.25'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=258.25' (Free Discharge)
 ↑1=Exfiltration (Passes 0.00 cfs of 0.01 cfs potential flow)

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Summary for Pond 12P: BIO - SMA#7

Inflow Area = 0.140 ac, 64.29% Impervious, Inflow Depth = 1.73" for 10yr event
 Inflow = 0.43 cfs @ 11.97 hrs, Volume= 0.020 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 258.40' @ 24.36 hrs Surf.Area= 390 sf Storage= 881 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	257.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	255.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
257.50	50	0	0
259.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
255.33	340	110.0	40.0	0	0	340
256.00	340	110.0	20.0	46	46	414
258.50	340	110.0	100.0	850	896	689
259.50	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	259.00'	8.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	257.95'	8.0" x 36.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 257.75' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=255.33' TW=257.25' (Dynamic Tailwater)

↑2=Culvert (Controls 0.00 cfs)
 ↑1=STANDPIPE (Controls 0.00 cfs)

Summary for Pond 13P: BIO - SMA#9

Inflow Area = 0.110 ac, 63.64% Impervious, Inflow Depth = 1.73" for 10yr event
 Inflow = 0.34 cfs @ 11.97 hrs, Volume= 0.016 af
 Outflow = 0.00 cfs @ 19.46 hrs, Volume= 0.002 af, Atten= 99%, Lag= 448.9 min
 Primary = 0.00 cfs @ 19.46 hrs, Volume= 0.002 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

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Peak Elev= 262.01' @ 19.46 hrs Surf.Area= 321 sf Storage= 618 cf

Plug-Flow detention time= 605.6 min calculated for 0.002 af (11% of inflow)
Center-of-Mass det. time= 455.8 min (1,294.3 - 838.5)

Volume	Invert	Avail.Storage	Storage Description
#1	260.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	258.33'	746 cf	BIORETENTION (Irregular) Listed below (Recalc)
		786 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.50	50	0	0
262.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
258.33	180	125.0	40.0	0	0	180
259.00	180	125.0	20.0	24	24	264
261.50	180	125.0	100.0	450	474	576
262.50	375	135.0	100.0	272	746	821

Device	Routing	Invert	Outlet Devices
#1	Device 2	262.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	260.50'	6.0" x 110.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 260.00' S= 0.0045 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 19.46 hrs HW=262.01' TW=257.83' (Dynamic Tailwater)

↑ **2=Culvert** (Passes 0.00 cfs of 0.59 cfs potential flow)
↑ **1=STANDPIPE** (Weir Controls 0.00 cfs @ 0.32 fps)

Summary for Pond 14P: BIO - SMA#10

Inflow Area = 0.120 ac, 66.67% Impervious, Inflow Depth = 1.81" for 10yr event
Inflow = 0.38 cfs @ 11.97 hrs, Volume= 0.018 af
Outflow = 0.02 cfs @ 13.67 hrs, Volume= 0.006 af, Atten= 96%, Lag= 101.5 min
Primary = 0.02 cfs @ 13.67 hrs, Volume= 0.006 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Peak Elev= 261.52' @ 13.67 hrs Surf.Area= 280 sf Storage= 523 cf

Plug-Flow detention time= 353.6 min calculated for 0.006 af (34% of inflow)
Center-of-Mass det. time= 222.3 min (1,057.9 - 835.6)

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Volume	Invert	Avail.Storage	Storage Description
#1	260.00'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	257.83'	625 cf	BIORETENTION (Irregular) Listed below (Recalc)
		665 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.00	50	0	0
262.00	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.83	150	105.0	40.0	0	0	150
258.50	150	105.0	20.0	20	20	220
261.00	150	105.0	100.0	375	395	483
262.00	320	120.0	100.0	230	625	774

Device	Routing	Invert	Outlet Devices
#1	Device 2	261.50'	8.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.10'	8.0" x 56.0' long CULVERT CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 258.75' S= 0.0063 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.02 cfs @ 13.67 hrs HW=261.52' TW=258.25' (Dynamic Tailwater)

↑2=CULVERT (Passes 0.02 cfs of 1.83 cfs potential flow)

↑1=STANDPIPE (Weir Controls 0.02 cfs @ 0.43 fps)

Summary for Pond 15P: BIO - SMA#11

Inflow Area = 0.100 ac, 60.00% Impervious, Inflow Depth = 1.52" for 10yr event
 Inflow = 0.27 cfs @ 11.98 hrs, Volume= 0.013 af
 Outflow = 0.00 cfs @ 23.11 hrs, Volume= 0.000 af, Atten= 99%, Lag= 668.0 min
 Primary = 0.00 cfs @ 23.11 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 261.01' @ 23.11 hrs Surf.Area= 285 sf Storage= 536 cf

Plug-Flow detention time= 730.5 min calculated for 0.000 af (3% of inflow)
 Center-of-Mass det. time= 560.4 min (1,407.4 - 847.0)

Volume	Invert	Avail.Storage	Storage Description
#1	259.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	257.33'	645 cf	BIORETENTION (Irregular) Listed below (Recalc)
		685 cf	Total Available Storage

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
259.50	50	0	0
261.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.33	155	110.0	40.0	0	0	155
258.00	155	110.0	20.0	21	21	229
260.50	155	110.0	100.0	388	408	504
261.50	330	125.0	100.0	237	645	808

Device	Routing	Invert	Outlet Devices
#1	Device 2	261.00'	8.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.00'	8.0" x 53.0' long CULVERT CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 258.75' S= 0.0047 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 23.11 hrs HW=261.01' TW=258.25' (Dynamic Tailwater)

↑2=CULVERT (Passes 0.00 cfs of 1.62 cfs potential flow)

↑1=STANDPIPE (Weir Controls 0.00 cfs @ 0.26 fps)

Summary for Pond 16P: BIO - SMA#12

Inflow Area = 0.100 ac, 60.00% Impervious, Inflow Depth = 1.52" for 10yr event
 Inflow = 0.27 cfs @ 11.98 hrs, Volume= 0.013 af
 Outflow = 0.00 cfs @ 23.21 hrs, Volume= 0.000 af, Atten= 99%, Lag= 674.0 min
 Primary = 0.00 cfs @ 23.21 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 262.01' @ 23.21 hrs Surf.Area= 286 sf Storage= 537 cf

Plug-Flow detention time= 732.5 min calculated for 0.000 af (3% of inflow)
 Center-of-Mass det. time= 562.4 min (1,409.4 - 847.0)

Volume	Invert	Avail.Storage	Storage Description
#1	260.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	258.33'	645 cf	BIORETENTION (Irregular) Listed below (Recalc)
		685 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.50	50	0	0
262.50	50	100	100

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Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
258.33	155	110.0	40.0	0	0	155
259.00	155	110.0	20.0	21	21	229
261.50	155	110.0	100.0	388	408	504
262.50	330	125.0	100.0	237	645	808

Device	Routing	Invert	Outlet Devices
#1	Device 2	262.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	260.00'	6.0" x 83.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 259.55' S= 0.0054 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 23.21 hrs HW=262.01' TW=259.05' (Dynamic Tailwater)

↑2=Culvert (Passes 0.00 cfs of 0.76 cfs potential flow)

↑1=STANDPIPE (Weir Controls 0.00 cfs @ 0.28 fps)

Summary for Pond 17P: ROOFTOP DISCONNECT

Inflow Area = 3.260 ac, 12.27% Impervious, Inflow Depth = 0.07" for 10yr event
 Inflow = 0.02 cfs @ 15.92 hrs, Volume= 0.018 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 260.11' @ 26.88 hrs Surf.Area= 7,000 sf Storage= 802 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	260.00'	7,000 cf	DISCONNECT (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.00	7,000	0	0
261.00	7,000	7,000	7,000

Device	Routing	Invert	Outlet Devices
#1	Primary	261.00'	700.0' long x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=260.00' TW=256.80' (Dynamic Tailwater)

↑1=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

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Summary for Pond 18P: DRYWELL#1

Inflow Area = 0.210 ac, 61.90% Impervious, Inflow Depth = 0.10" for 10yr event
 Inflow = 0.00 cfs @ 19.46 hrs, Volume= 0.002 af
 Outflow = 0.00 cfs @ 19.46 hrs, Volume= 0.002 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 19.46 hrs, Volume= 0.002 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 257.83' @ 0.00 hrs Surf.Area= 113 sf Storage= 0 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 0.0 min (1,294.3 - 1,294.3)

Volume	Invert	Avail.Storage	Storage Description
#1	257.83'	111 cf	12.00'D x 3.50'H STONE 396 cf Overall - 118 cf Embedded = 278 cf x 40.0% Voids
#2	258.50'	101 cf	8.00'D x 2.00'H DW1 - Vertical Cone/Cylinder Inside #1 118 cf Overall - 4.0" Wall Thickness = 101 cf
		212 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	257.83'	0.07 cfs Exfiltration at all elevations

Discarded OutFlow Max=0.00 cfs @ 19.46 hrs HW=257.83' (Free Discharge)
 ↳ **1=Exfiltration** (Passes 0.00 cfs of 0.07 cfs potential flow)

Summary for Pond 19P: INFILTRATOR #3

Inflow Area = 0.220 ac, 63.64% Impervious, Inflow Depth = 0.36" for 10yr event
 Inflow = 0.02 cfs @ 13.67 hrs, Volume= 0.007 af
 Outflow = 0.02 cfs @ 13.67 hrs, Volume= 0.007 af, Atten= 0%, Lag= 0.2 min
 Discarded = 0.02 cfs @ 13.67 hrs, Volume= 0.007 af
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 258.25' @ 13.67 hrs Surf.Area= 750 sf Storage= 0 cf

Plug-Flow detention time= 0.9 min calculated for 0.007 af (100% of inflow)
 Center-of-Mass det. time= 0.0 min (1,079.9 - 1,079.9)

Volume	Invert	Avail.Storage	Storage Description
#1	258.25'	682 cf	5.00'W x 75.00'L x 3.50'H Prismatic x 2 2,625 cf Overall - 919 cf Embedded = 1,706 cf x 40.0% Voids
#2	258.75'	919 cf	44.6"W x 30.0"H x 7.12'L StormTech SC-740 x 20 Inside #1
		1,601 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	258.25'	1.000 in/hr Exfiltration over Surface area
#2	Primary	260.25'	6.0" x 44.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 260.00' S= 0.0057 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

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Discarded OutFlow Max=0.02 cfs @ 13.67 hrs HW=258.25' (Free Discharge)

↑1=Exfiltration (Exfiltration Controls 0.02 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=258.25' TW=258.25' (Dynamic Tailwater)

↑2=Culvert (Controls 0.00 cfs)

Summary for Pond 20P: INFILTRATOR #4

Inflow Area = 0.140 ac, 64.29% Impervious, Inflow Depth = 0.00" for 10yr event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 257.25' @ 0.00 hrs Surf.Area= 0.007 ac Storage= 0.000 af

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	257.25'	0.007 af	5.00'W x 60.00'L x 3.50'H Prismatic 0.024 af Overall - 0.007 af Embedded = 0.017 af x 40.0% Voids
#2	257.75'	0.007 af	44.6"W x 30.0"H x 7.12'L StormTech SC-740x7 Inside #1
		0.014 af	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	257.25'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=257.25' (Free Discharge)

↑1=Exfiltration (Passes 0.00 cfs of 0.01 cfs potential flow)

Summary for Pond 21P: BIO - SMA#13

Inflow Area = 0.140 ac, 71.43% Impervious, Inflow Depth = 2.04" for 10yr event
 Inflow = 0.50 cfs @ 11.97 hrs, Volume= 0.024 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 258.95' @ 24.36 hrs Surf.Area= 462 sf Storage= 1,036 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	257.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	255.33'	1,268 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,308 cf	Total Available Storage

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
257.50	50	0	0
259.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
255.33	320	140.0	40.0	0	0	320
256.00	320	140.0	20.0	43	43	414
258.50	320	140.0	100.0	800	843	764
259.50	540	150.0	100.0	425	1,268	1,036

Device	Routing	Invert	Outlet Devices
#1	Device 2	259.00'	8.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	257.20'	8.0" x 34.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 257.00' S= 0.0059 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=255.33' TW=256.50' (Dynamic Tailwater)

↑2=Culvert (Controls 0.00 cfs)

↑1=STANDPIPE (Controls 0.00 cfs)

Summary for Pond 22P: POROUS SECTION

Inflow Area = 0.011 ac, 100.00% Impervious, Inflow Depth = 3.67" for 10yr event
 Inflow = 0.01 cfs @ 14.79 hrs, Volume= 0.003 af
 Outflow = 0.01 cfs @ 14.79 hrs, Volume= 0.003 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.01 cfs @ 14.79 hrs, Volume= 0.003 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 257.00' @ 14.79 hrs Surf.Area= 460 sf Storage= 0 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 0.0 min (957.4 - 957.4)

Volume	Invert	Avail.Storage	Storage Description
#1	257.00'	276 cf	POROUS (Irregular) Listed below (Recalc) 690 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.00	460	85.0	0	0	460
258.50	460	85.0	690	690	588

Device	Routing	Invert	Outlet Devices
#1	Discarded	257.00'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.01 cfs @ 14.79 hrs HW=257.00' (Free Discharge)

↑1=Exfiltration (Exfiltration Controls 0.01 cfs)

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Summary for Pond 23P: POROUS SECTION

Inflow Area = 0.037 ac, 100.00% Impervious, Inflow Depth = 3.67" for 10yr event
 Inflow = 0.02 cfs @ 14.79 hrs, Volume= 0.011 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 257.76' @ 36.84 hrs Surf.Area= 1,600 sf Storage= 489 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	257.00'	960 cf	POROUS (Irregular) Listed below (Recalc) 2,400 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.00	1,600	210.0	0	0	1,600
258.50	1,600	210.0	2,400	2,400	1,915

Summary for Pond 24P: INFILTRATOR #1

Inflow Area = 0.204 ac, 57.84% Impervious, Inflow Depth = 0.02" for 10yr event
 Inflow = 0.00 cfs @ 23.21 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 23.21 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 23.21 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 259.05' @ 23.04 hrs Surf.Area= 0.007 ac Storage= 0.000 af

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 0.0 min (1,409.4 - 1,409.4)

Volume	Invert	Avail.Storage	Storage Description
#1	259.05'	0.007 af	5.00'W x 60.00'L x 3.50'H Prismaoid 0.024 af Overall - 0.007 af Embedded = 0.017 af x 40.0% Voids
#2	259.55'	0.007 af	44.6"W x 30.0"H x 7.12'L StormTech SC-740x 7 Inside #1
		0.014 af	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	259.05'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.01 cfs @ 23.21 hrs HW=259.05' (Free Discharge)
 ↑**1=Exfiltration** (Exfiltration Controls 0.01 cfs)

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Summary for Pond 25P: DRYWELL#3

Inflow Area = 0.190 ac, 57.89% Impervious, Inflow Depth = 0.00" for 10yr event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 258.28' @ 0.00 hrs Surf.Area= 113 sf Storage= 0 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	258.28'	89 cf	12.00'D x 3.00'H STONE 339 cf Overall - 118 cf Embedded = 221 cf x 40.0% Voids
#2	258.95'	101 cf	8.00'D x 2.00'H DW1 - Vertical Cone/Cylinder Inside #1 118 cf Overall - 4.0" Wall Thickness = 101 cf
		189 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	258.28'	0.07 cfs Exfiltration at all elevations

Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=258.28' (Free Discharge)
 ↑**1=Exfiltration** (Passes 0.00 cfs of 0.07 cfs potential flow)

Summary for Pond 26P: INFILTRATOR #5

Inflow Area = 0.140 ac, 71.43% Impervious, Inflow Depth = 0.00" for 10yr event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 256.50' @ 0.00 hrs Surf.Area= 0.007 ac Storage= 0.000 af

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no inflow)

Volume	Invert	Avail.Storage	Storage Description
#1	256.50'	0.007 af	5.00'W x 60.00'L x 3.50'H Prismatic 0.024 af Overall - 0.007 af Embedded = 0.017 af x 40.0% Voids
#2	257.00'	0.007 af	44.6"W x 30.0"H x 7.12'L StormTech SC-740x7 Inside #1
		0.014 af	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	256.50'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=256.50' (Free Discharge)
 ↑**1=Exfiltration** (Passes 0.00 cfs of 0.01 cfs potential flow)

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Summary for Link A: DESIGN POINT

Inflow Area = 5.690 ac, 30.58% Impervious, Inflow Depth = 0.59" for 10yr event
Inflow = 1.97 cfs @ 12.51 hrs, Volume= 0.282 af
Primary = 1.97 cfs @ 12.51 hrs, Volume= 0.282 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

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Time span=0.00-100.00 hrs, dt=0.04 hrs, 2501 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 1S: -	Runoff Area=2.430 ac 55.14% Impervious Runoff Depth=3.20" Flow Length=1,300' Tc=48.7 min CN=72 Runoff=4.79 cfs 0.648 af
Subcatchment 2S: POROUS - SINGLE	Runoff Area=460 sf 100.00% Impervious Runoff Depth=6.01" Tc=230.0 min CN=98 Runoff=0.01 cfs 0.005 af
Subcatchment 24S: POROUS - SHARED	Runoff Area=1,600 sf 100.00% Impervious Runoff Depth=6.01" Tc=230.0 min CN=98 Runoff=0.04 cfs 0.018 af
Subcatchment B1: -	Runoff Area=0.104 ac 55.77% Impervious Runoff Depth=3.20" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=72 Runoff=0.58 cfs 0.028 af
Subcatchment B10: -	Runoff Area=0.120 ac 66.67% Impervious Runoff Depth=3.80" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=78 Runoff=0.79 cfs 0.038 af
Subcatchment B11: -	Runoff Area=0.100 ac 60.00% Impervious Runoff Depth=3.40" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=74 Runoff=0.59 cfs 0.028 af
Subcatchment B12: -	Runoff Area=0.100 ac 60.00% Impervious Runoff Depth=3.40" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=74 Runoff=0.59 cfs 0.028 af
Subcatchment B13: -	Runoff Area=0.140 ac 71.43% Impervious Runoff Depth=4.11" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=81 Runoff=0.98 cfs 0.048 af
Subcatchment B14: -	Runoff Area=1.680 ac 17.86% Impervious Runoff Depth=0.97" Flow Length=345' Tc=33.1 min CN=46 Runoff=0.90 cfs 0.136 af
Subcatchment B15: -	Runoff Area=3.260 ac 12.27% Impervious Runoff Depth=0.64" Flow Length=1,070' Tc=50.3 min CN=41 Runoff=0.66 cfs 0.174 af
Subcatchment B2: -	Runoff Area=0.103 ac 57.28% Impervious Runoff Depth=3.30" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=73 Runoff=0.59 cfs 0.028 af
Subcatchment B3: -	Runoff Area=0.120 ac 66.67% Impervious Runoff Depth=3.80" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=78 Runoff=0.79 cfs 0.038 af
Subcatchment B4: -	Runoff Area=0.100 ac 60.00% Impervious Runoff Depth=3.40" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=74 Runoff=0.59 cfs 0.028 af
Subcatchment B5: -	Runoff Area=0.095 ac 57.89% Impervious Runoff Depth=3.30" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=73 Runoff=0.55 cfs 0.026 af
Subcatchment B6: -	Runoff Area=0.095 ac 57.89% Impervious Runoff Depth=3.30" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=73 Runoff=0.55 cfs 0.026 af
Subcatchment B7: -	Runoff Area=0.140 ac 64.29% Impervious Runoff Depth=3.70" Flow Length=120' Slope=0.0100 '/ Tc=6.0 min CN=77 Runoff=0.90 cfs 0.043 af

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Subcatchment B8: -	Runoff Area=0.100 ac 60.00% Impervious Runoff Depth=3.40"
Flow Length=120'	Slope=0.0100 '/' Tc=6.0 min CN=74 Runoff=0.59 cfs 0.028 af
Subcatchment B9: -	Runoff Area=0.110 ac 63.64% Impervious Runoff Depth=3.70"
Flow Length=120'	Slope=0.0100 '/' Tc=6.0 min CN=77 Runoff=0.71 cfs 0.034 af
Pond 1P: BIO - SMA#1	Peak Elev=262.01' Storage=1,122 cf Inflow=0.58 cfs 0.028 af Outflow=0.01 cfs 0.002 af
Pond 2P: BIO - SMA#2	Peak Elev=261.01' Storage=1,122 cf Inflow=0.59 cfs 0.028 af Outflow=0.01 cfs 0.003 af
Pond 3P: DRYWELL#2	Peak Elev=259.44' Storage=65 cf Inflow=0.26 cfs 0.016 af Outflow=0.07 cfs 0.016 af
Pond 4P: REGATTA VIEW CULVERT	Peak Elev=257.89' Inflow=4.79 cfs 0.661 af 18.0" x 80.0' Culvert Outflow=4.79 cfs 0.661 af
Pond 5P: BIO - SMA#3	Peak Elev=262.03' Storage=1,132 cf Inflow=0.79 cfs 0.038 af Outflow=0.03 cfs 0.012 af
Pond 6P: BIO - SMA#4	Peak Elev=262.01' Storage=1,122 cf Inflow=0.59 cfs 0.028 af Outflow=0.01 cfs 0.003 af
Pond 7P: BIO - SMA#5	Peak Elev=261.01' Storage=1,121 cf Inflow=0.55 cfs 0.026 af Outflow=0.01 cfs 0.000 af
Pond 8P: BIO - SMA#6	Peak Elev=260.51' Storage=1,131 cf Inflow=0.55 cfs 0.026 af Outflow=0.01 cfs 0.000 af
Pond 9P: ROOFTOP DISCONNECT	Peak Elev=261.12' Storage=1,470 cf Inflow=0.90 cfs 0.136 af Outflow=0.21 cfs 0.136 af
Pond 10P: BIO - SMA#8	Peak Elev=261.14' Storage=572 cf Inflow=0.59 cfs 0.028 af Outflow=0.26 cfs 0.016 af
Pond 11P: INFILTRATOR#2	Peak Elev=260.57' Storage=0.010 af Inflow=0.03 cfs 0.017 af Outflow=0.01 cfs 0.017 af
Pond 12P: BIO - SMA#7	Peak Elev=259.20' Storage=1,210 cf Inflow=0.90 cfs 0.043 af Outflow=0.06 cfs 0.018 af
Pond 13P: BIO - SMA#9	Peak Elev=262.17' Storage=668 cf Inflow=0.71 cfs 0.034 af Outflow=0.36 cfs 0.020 af
Pond 14P: BIO - SMA#10	Peak Elev=261.74' Storage=583 cf Inflow=0.79 cfs 0.038 af Outflow=0.80 cfs 0.026 af
Pond 15P: BIO - SMA#11	Peak Elev=261.12' Storage=567 cf Inflow=0.59 cfs 0.028 af Outflow=0.29 cfs 0.016 af
Pond 16P: BIO - SMA#12	Peak Elev=262.14' Storage=572 cf Inflow=0.59 cfs 0.028 af Outflow=0.26 cfs 0.016 af

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Pond 17P: ROOFTOP DISCONNECT	Peak Elev=261.00' Storage=7,000 cf Inflow=0.66 cfs 0.174 af Outflow=0.08 cfs 0.013 af
Pond 18P: DRYWELL#1	Peak Elev=260.05' Storage=142 cf Inflow=0.36 cfs 0.022 af Outflow=0.07 cfs 0.022 af
Pond 19P: INFILTRATOR#3	Peak Elev=260.31' Storage=1,055 cf Inflow=0.81 cfs 0.042 af Discarded=0.02 cfs 0.040 af Primary=0.01 cfs 0.002 af Outflow=0.02 cfs 0.042 af
Pond 20P: INFILTRATOR#4	Peak Elev=259.22' Storage=0.009 af Inflow=0.06 cfs 0.018 af Outflow=0.01 cfs 0.018 af
Pond 21P: BIO - SMA#13	Peak Elev=259.39' Storage=1,249 cf Inflow=0.98 cfs 0.048 af Outflow=0.25 cfs 0.024 af
Pond 22P: POROUS SECTION	Peak Elev=257.01' Storage=2 cf Inflow=0.01 cfs 0.005 af Outflow=0.01 cfs 0.005 af
Pond 23P: POROUS SECTION	Peak Elev=258.25' Storage=802 cf Inflow=0.04 cfs 0.018 af Outflow=0.00 cfs 0.000 af
Pond 24P: INFILTRATOR#1	Peak Elev=261.54' Storage=0.011 af Inflow=0.26 cfs 0.018 af Outflow=0.01 cfs 0.018 af
Pond 25P: DRYWELL#3	Peak Elev=258.28' Storage=0 cf Inflow=0.01 cfs 0.001 af Outflow=0.01 cfs 0.001 af
Pond 26P: INFILTRATOR#5	Peak Elev=259.42' Storage=0.012 af Inflow=0.25 cfs 0.024 af Outflow=0.01 cfs 0.024 af
Link A: DESIGN POINT	Inflow=4.79 cfs 0.661 af Primary=4.79 cfs 0.661 af

Total Runoff Area = 8.844 ac Runoff Volume = 1.404 af Average Runoff Depth = 1.91"
66.37% Pervious = 5.870 ac 33.63% Impervious = 2.974 ac

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Summary for Subcatchment 1S: -

Runoff = 4.79 cfs @ 12.49 hrs, Volume= 0.648 af, Depth= 3.20"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 100yr Rainfall=6.25"

Area (ac)	CN	Description
1.340	98	Paved parking & roofs
1.090	39	>75% Grass cover, Good, HSG A
2.430	72	Weighted Average
1.090		Pervious Area
1.340		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	100	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 2.50"
34.1	1,200	0.0070	0.59		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
48.7	1,300	Total			

Summary for Subcatchment 2S: POROUS - SINGLE DRIVEWAY

Runoff = 0.01 cfs @ 14.79 hrs, Volume= 0.005 af, Depth= 6.01"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 100yr Rainfall=6.25"

Area (sf)	CN	Description
460	98	Paved parking & roofs
460		Impervious Area

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

Summary for Subcatchment 24S: POROUS - SHARED DRIVEWAY

Runoff = 0.04 cfs @ 14.79 hrs, Volume= 0.018 af, Depth= 6.01"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 100yr Rainfall=6.25"

Area (sf)	CN	Description
1,600	98	Paved parking & roofs
1,600		Impervious Area

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

Summary for Subcatchment B1: -

Runoff = 0.58 cfs @ 11.97 hrs, Volume= 0.028 af, Depth= 3.20"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 100yr Rainfall=6.25"

Area (ac)	CN	Description
0.058	98	Paved parking & roofs
0.046	39	>75% Grass cover, Good, HSG A
0.104	72	Weighted Average
0.046		Pervious Area
0.058		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B10: -

Runoff = 0.79 cfs @ 11.97 hrs, Volume= 0.038 af, Depth= 3.80"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 100yr Rainfall=6.25"

Area (ac)	CN	Description
0.080	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.120	78	Weighted Average
0.040		Pervious Area
0.080		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

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Summary for Subcatchment B11: -

Runoff = 0.59 cfs @ 11.97 hrs, Volume= 0.028 af, Depth= 3.40"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 100yr Rainfall=6.25"

Area (ac)	CN	Description
0.060	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.100	74	Weighted Average
0.040		Pervious Area
0.060		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B12: -

Runoff = 0.59 cfs @ 11.97 hrs, Volume= 0.028 af, Depth= 3.40"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 100yr Rainfall=6.25"

Area (ac)	CN	Description
0.060	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.100	74	Weighted Average
0.040		Pervious Area
0.060		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B13: -

Runoff = 0.98 cfs @ 11.97 hrs, Volume= 0.048 af, Depth= 4.11"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 100yr Rainfall=6.25"

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Area (ac)	CN	Description
0.100	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.140	81	Weighted Average
0.040		Pervious Area
0.100		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B14: -

Runoff = 0.90 cfs @ 12.36 hrs, Volume= 0.136 af, Depth= 0.97"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 100yr Rainfall=6.25"

Area (ac)	CN	Description
0.690	30	Woods, Good, HSG A
0.690	39	>75% Grass cover, Good, HSG A
0.300	98	Paved parking & roofs
1.680	46	Weighted Average
1.380		Pervious Area
0.300		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.3	100	0.0150	0.06		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 2.50"
5.8	245	0.0100	0.70		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
33.1	345	Total			

Summary for Subcatchment B15: -

Runoff = 0.66 cfs @ 12.70 hrs, Volume= 0.174 af, Depth= 0.64"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
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Area (ac)	CN	Description
0.400	98	Paved parking & roofs
1.830	30	Woods, Good, HSG A
1.030	39	>75% Grass cover, Good, HSG A
3.260	41	Weighted Average
2.860		Pervious Area
0.400		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.6	100	0.0100	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 2.50"
10.8	230	0.0050	0.35		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
24.9	740	0.0050	0.49		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
50.3	1,070	Total			

Summary for Subcatchment B2: -

Runoff = 0.59 cfs @ 11.97 hrs, Volume= 0.028 af, Depth= 3.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 100yr Rainfall=6.25"

Area (ac)	CN	Description
0.059	98	Paved parking & roofs
0.044	39	>75% Grass cover, Good, HSG A
0.103	73	Weighted Average
0.044		Pervious Area
0.059		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B3: -

Runoff = 0.79 cfs @ 11.97 hrs, Volume= 0.038 af, Depth= 3.80"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
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Area (ac)	CN	Description
0.080	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.120	78	Weighted Average
0.040		Pervious Area
0.080		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B4: -

Runoff = 0.59 cfs @ 11.97 hrs, Volume= 0.028 af, Depth= 3.40"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 100yr Rainfall=6.25"

Area (ac)	CN	Description
0.060	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.100	74	Weighted Average
0.040		Pervious Area
0.060		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B5: -

Runoff = 0.55 cfs @ 11.97 hrs, Volume= 0.026 af, Depth= 3.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 100yr Rainfall=6.25"

Area (ac)	CN	Description
0.055	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.095	73	Weighted Average
0.040		Pervious Area
0.055		Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B6: -

Runoff = 0.55 cfs @ 11.97 hrs, Volume= 0.026 af, Depth= 3.30"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 100yr Rainfall=6.25"

Area (ac)	CN	Description
0.055	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.095	73	Weighted Average
0.040		Pervious Area
0.055		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B7: -

Runoff = 0.90 cfs @ 11.97 hrs, Volume= 0.043 af, Depth= 3.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 100yr Rainfall=6.25"

Area (ac)	CN	Description
0.090	98	Paved parking & roofs
0.050	39	>75% Grass cover, Good, HSG A
0.140	77	Weighted Average
0.050		Pervious Area
0.090		Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B8: -

Runoff = 0.59 cfs @ 11.97 hrs, Volume= 0.028 af, Depth= 3.40"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 100yr Rainfall=6.25"

Area (ac)	CN	Description
0.060	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.100	74	Weighted Average
0.040		Pervious Area
0.060		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment B9: -

Runoff = 0.71 cfs @ 11.97 hrs, Volume= 0.034 af, Depth= 3.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
Type II 24-hr 100yr Rainfall=6.25"

Area (ac)	CN	Description
0.070	98	Paved parking & roofs
0.040	39	>75% Grass cover, Good, HSG A
0.110	77	Weighted Average
0.040		Pervious Area
0.070		Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	30	0.0100	0.72		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.50"
0.7	90	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	120	Total, Increased to minimum Tc = 6.0 min			

Summary for Pond 1P: BIO - SMA#1

Inflow Area = 0.104 ac, 55.77% Impervious, Inflow Depth = 3.20" for 100yr event
 Inflow = 0.58 cfs @ 11.97 hrs, Volume= 0.028 af
 Outflow = 0.01 cfs @ 21.05 hrs, Volume= 0.002 af, Atten= 99%, Lag= 544.5 min
 Primary = 0.01 cfs @ 21.05 hrs, Volume= 0.002 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 262.01' @ 21.05 hrs Surf.Area= 477 sf Storage= 1,122 cf

Plug-Flow detention time= 681.1 min calculated for 0.002 af (8% of inflow)

Center-of-Mass det. time= 510.7 min (1,339.1 - 828.4)

Volume	Invert	Avail.Storage	Storage Description
#1	260.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	258.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.50	50	0	0
262.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
258.33	340	110.0	40.0	0	0	340
259.00	340	110.0	20.0	46	46	414
261.50	340	110.0	100.0	850	896	689
262.50	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	262.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	260.00'	6.0" x 63.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 259.55' S= 0.0071 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.01 cfs @ 21.05 hrs HW=262.01' TW=261.20' (Dynamic Tailwater)

↑ **2=Culvert** (Passes 0.01 cfs of 0.54 cfs potential flow)

↑ **1=STANDPIPE** (Weir Controls 0.01 cfs @ 0.36 fps)

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Summary for Pond 2P: BIO - SMA#2

Inflow Area = 0.103 ac, 57.28% Impervious, Inflow Depth = 3.30" for 100yr event
 Inflow = 0.59 cfs @ 11.97 hrs, Volume= 0.028 af
 Outflow = 0.01 cfs @ 19.88 hrs, Volume= 0.003 af, Atten= 99%, Lag= 474.6 min
 Primary = 0.01 cfs @ 19.88 hrs, Volume= 0.003 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 261.01' @ 19.88 hrs Surf.Area= 478 sf Storage= 1,122 cf

Plug-Flow detention time= 646.7 min calculated for 0.003 af (9% of inflow)
 Center-of-Mass det. time= 482.3 min (1,308.4 - 826.1)

Volume	Invert	Avail.Storage	Storage Description
#1	259.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	257.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
259.50	50	0	0
261.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.33	340	110.0	40.0	0	0	340
258.00	340	110.0	20.0	46	46	414
260.50	340	110.0	100.0	850	896	689
261.50	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	261.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.00'	6.0" x 57.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 258.75' S= 0.0044 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.01 cfs @ 19.88 hrs HW=261.01' TW=259.95' (Dynamic Tailwater)
 ↑2=Culvert (Passes 0.01 cfs of 0.64 cfs potential flow)
 ↑1=STANDPIPE (Weir Controls 0.01 cfs @ 0.37 fps)

Summary for Pond 3P: DRYWELL#2

Inflow Area = 0.100 ac, 60.00% Impervious, Inflow Depth = 1.92" for 100yr event
 Inflow = 0.26 cfs @ 12.09 hrs, Volume= 0.016 af
 Outflow = 0.07 cfs @ 12.08 hrs, Volume= 0.016 af, Atten= 73%, Lag= 0.0 min
 Discarded = 0.07 cfs @ 12.08 hrs, Volume= 0.016 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

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Peak Elev= 259.44' @ 12.38 hrs Surf.Area= 113 sf Storage= 65 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 4.2 min (926.7 - 922.5)

Volume	Invert	Avail.Storage	Storage Description
#1	258.28'	89 cf	12.00'D x 3.00'H STONE 339 cf Overall - 118 cf Embedded = 221 cf x 40.0% Voids
#2	258.95'	101 cf	8.00'D x 2.00'H DW1 - Vertical Cone/Cylinder Inside #1 118 cf Overall - 4.0" Wall Thickness = 101 cf
		189 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	258.28'	0.07 cfs Exfiltration at all elevations

Discarded OutFlow Max=0.07 cfs @ 12.08 hrs HW=258.55' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.07 cfs)

Summary for Pond 4P: REGATTA VIEW CULVERT

Inflow Area = 5.690 ac, 30.58% Impervious, Inflow Depth = 1.39" for 100yr event
Inflow = 4.79 cfs @ 12.49 hrs, Volume= 0.661 af
Outflow = 4.79 cfs @ 12.49 hrs, Volume= 0.661 af, Atten= 0%, Lag= 0.0 min
Primary = 4.79 cfs @ 12.49 hrs, Volume= 0.661 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 257.89' @ 12.49 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	256.80'	18.0" x 80.0' long Culvert CPP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 256.15' S= 0.0081 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean

Primary OutFlow Max=4.79 cfs @ 12.49 hrs HW=257.88' TW=0.00' (Dynamic Tailwater)

↑**1=Culvert** (Barrel Controls 4.79 cfs @ 4.89 fps)

Summary for Pond 5P: BIO - SMA#3

Inflow Area = 0.120 ac, 66.67% Impervious, Inflow Depth = 3.80" for 100yr event
Inflow = 0.79 cfs @ 11.97 hrs, Volume= 0.038 af
Outflow = 0.03 cfs @ 13.43 hrs, Volume= 0.012 af, Atten= 96%, Lag= 87.4 min
Primary = 0.03 cfs @ 13.43 hrs, Volume= 0.012 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 262.03' @ 13.43 hrs Surf.Area= 481 sf Storage= 1,132 cf

Plug-Flow detention time= 352.7 min calculated for 0.012 af (33% of inflow)

Center-of-Mass det. time= 224.8 min (1,039.1 - 814.4)

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Volume	Invert	Avail.Storage	Storage Description
#1	260.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	258.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.50	50	0	0
262.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
258.33	340	110.0	40.0	0	0	340
259.00	340	110.0	20.0	46	46	414
261.50	340	110.0	100.0	850	896	689
262.50	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	262.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.10'	6.0" x 60.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 258.75' S= 0.0058 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.03 cfs @ 13.43 hrs HW=262.03' TW=258.42' (Dynamic Tailwater)

↑2=Culvert (Passes 0.03 cfs of 1.02 cfs potential flow)

↑1=STANDPIPE (Weir Controls 0.03 cfs @ 0.61 fps)

Summary for Pond 6P: BIO - SMA#4

Inflow Area = 0.100 ac, 60.00% Impervious, Inflow Depth = 3.40" for 100yr event
 Inflow = 0.59 cfs @ 11.97 hrs, Volume= 0.028 af
 Outflow = 0.01 cfs @ 19.82 hrs, Volume= 0.003 af, Atten= 99%, Lag= 470.7 min
 Primary = 0.01 cfs @ 19.82 hrs, Volume= 0.003 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 262.01' @ 19.82 hrs Surf.Area= 478 sf Storage= 1,122 cf

Plug-Flow detention time= 649.7 min calculated for 0.003 af (9% of inflow)

Center-of-Mass det. time= 482.3 min (1,306.1 - 823.8)

Volume	Invert	Avail.Storage	Storage Description
#1	260.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	258.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.50	50	0	0
262.50	50	100	100

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Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
258.33	340	110.0	40.0	0	0	340
259.00	340	110.0	20.0	46	46	414
261.50	340	110.0	100.0	850	896	689
262.50	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	262.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	260.50'	6.0" x 90.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 260.00' S= 0.0056 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.01 cfs @ 19.82 hrs HW=262.01' TW=257.83' (Dynamic Tailwater)

↑2=Culvert (Passes 0.01 cfs of 0.65 cfs potential flow)

↑1=STANDPIPE (Weir Controls 0.01 cfs @ 0.37 fps)

Summary for Pond 7P: BIO - SMA#5

Inflow Area = 0.095 ac, 57.89% Impervious, Inflow Depth = 3.30" for 100yr event
 Inflow = 0.55 cfs @ 11.97 hrs, Volume= 0.026 af
 Outflow = 0.01 cfs @ 23.98 hrs, Volume= 0.000 af, Atten= 99%, Lag= 720.4 min
 Primary = 0.01 cfs @ 23.98 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 261.01' @ 23.98 hrs Surf.Area= 477 sf Storage= 1,121 cf

Plug-Flow detention time= 845.6 min calculated for 0.000 af (2% of inflow)
 Center-of-Mass det. time= 606.4 min (1,432.6 - 826.1)

Volume	Invert	Avail.Storage	Storage Description
#1	259.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	257.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
259.50	50	0	0
261.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.33	340	110.0	40.0	0	0	340
258.00	340	110.0	20.0	46	46	414
260.50	340	110.0	100.0	850	896	689
261.50	520	125.0	100.0	427	1,322	993

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Device	Routing	Invert	Outlet Devices
#1	Device 2	261.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.50'	6.0" x 100.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 259.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.01 cfs @ 23.98 hrs HW=261.01' TW=258.28' (Dynamic Tailwater)

↳ **2=Culvert** (Passes 0.01 cfs of 0.62 cfs potential flow)

↳ **1=STANDPIPE** (Weir Controls 0.01 cfs @ 0.34 fps)

Summary for Pond 8P: BIO - SMA#6

Inflow Area = 0.095 ac, 57.89% Impervious, Inflow Depth = 3.30" for 100yr event
 Inflow = 0.55 cfs @ 11.97 hrs, Volume= 0.026 af
 Outflow = 0.01 cfs @ 24.03 hrs, Volume= 0.000 af, Atten= 99%, Lag= 723.6 min
 Primary = 0.01 cfs @ 24.03 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 260.51' @ 24.03 hrs Surf.Area= 477 sf Storage= 1,131 cf

Plug-Flow detention time= 889.3 min calculated for 0.000 af (1% of inflow)
 Center-of-Mass det. time= 623.3 min (1,449.4 - 826.1)

Volume	Invert	Avail.Storage	Storage Description
#1	258.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	256.83'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
258.50	50	0	0
260.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
256.83	340	110.0	40.0	0	0	340
257.50	340	110.0	20.0	46	46	414
260.00	340	110.0	100.0	850	896	689
261.00	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	260.50'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.40'	6.0" x 80.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 259.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.01 cfs @ 24.03 hrs HW=260.51' TW=258.28' (Dynamic Tailwater)

↳ **2=Culvert** (Passes 0.01 cfs of 0.55 cfs potential flow)

↳ **1=STANDPIPE** (Weir Controls 0.01 cfs @ 0.32 fps)

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Summary for Pond 9P: ROOFTOP DISCONNECT

Inflow Area = 1.680 ac, 17.86% Impervious, Inflow Depth = 0.97" for 100yr event
 Inflow = 0.90 cfs @ 12.36 hrs, Volume= 0.136 af
 Outflow = 0.21 cfs @ 12.12 hrs, Volume= 0.136 af, Atten= 77%, Lag= 0.0 min
 Discarded = 0.21 cfs @ 12.12 hrs, Volume= 0.136 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 261.12' @ 13.58 hrs Surf.Area= 8,207 sf Storage= 1,470 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 54.8 min (985.3 - 930.5)

Volume	Invert	Avail.Storage	Storage Description
#1	257.00'	266 cf	12.00'D x 3.00'H STONE x 3 1,018 cf Overall - 354 cf Embedded = 664 cf x 40.0% Voids
#2	258.00'	302 cf	8.00'D x 2.00'H DW1 - Vertical Cone/Cylinder x 3 Inside #1 354 cf Overall - 4.0" Wall Thickness = 302 cf
#3	261.00'	4,294 cf	PONDING (Irregular) Listed below (Recalc)
		4,861 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
261.00	7,250	575.0	0	0	7,250
261.50	10,000	630.0	4,294	4,294	12,533

Device	Routing	Invert	Outlet Devices
#1	Discarded	257.00'	0.07 cfs Exfiltration X 3.00 at all elevations

Discarded OutFlow Max=0.21 cfs @ 12.12 hrs HW=257.17' (Free Discharge)
 ↖1=Exfiltration (Exfiltration Controls 0.21 cfs)

Summary for Pond 10P: BIO - SMA#8

Inflow Area = 0.100 ac, 60.00% Impervious, Inflow Depth = 3.40" for 100yr event
 Inflow = 0.59 cfs @ 11.97 hrs, Volume= 0.028 af
 Outflow = 0.26 cfs @ 12.09 hrs, Volume= 0.016 af, Atten= 57%, Lag= 7.3 min
 Primary = 0.26 cfs @ 12.09 hrs, Volume= 0.016 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 261.14' @ 12.09 hrs Surf.Area= 309 sf Storage= 572 cf

Plug-Flow detention time= 214.2 min calculated for 0.016 af (57% of inflow)
 Center-of-Mass det. time= 98.6 min (922.5 - 823.8)

Volume	Invert	Avail.Storage	Storage Description
#1	259.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	257.33'	645 cf	BIORETENTION (Irregular) Listed below (Recalc)
		685 cf	Total Available Storage

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
259.50	50	0	0
261.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.33	155	110.0	40.0	0	0	155
258.00	155	110.0	20.0	21	21	229
260.50	155	110.0	100.0	388	408	504
261.50	330	120.0	100.0	237	645	720

Device	Routing	Invert	Outlet Devices
#1	Device 2	261.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.50'	6.0" x 54.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 259.20' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.23 cfs @ 12.09 hrs HW=261.13' TW=258.70' (Dynamic Tailwater)

↑**2=Culvert** (Passes 0.23 cfs of 0.76 cfs potential flow)
 ↑**1=STANDPIPE** (Weir Controls 0.23 cfs @ 1.16 fps)

Summary for Pond 11P: INFILTRATOR #2

Inflow Area = 0.443 ac, 62.98% Impervious, Inflow Depth = 0.46" for 100yr event
 Inflow = 0.03 cfs @ 13.43 hrs, Volume= 0.017 af
 Outflow = 0.01 cfs @ 13.28 hrs, Volume= 0.017 af, Atten= 79%, Lag= 0.0 min
 Discarded = 0.01 cfs @ 13.28 hrs, Volume= 0.017 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 260.57' @ 24.21 hrs Surf.Area= 0.007 ac Storage= 0.010 af

Plug-Flow detention time= 582.4 min calculated for 0.017 af (100% of inflow)
 Center-of-Mass det. time= 582.9 min (1,666.9 - 1,084.0)

Volume	Invert	Avail.Storage	Storage Description
#1	258.25'	0.007 af	5.00'W x 60.00'L x 3.50'H Prismatic 0.024 af Overall - 0.007 af Embedded = 0.017 af x 40.0% Voids
#2	258.75'	0.007 af	44.6"W x 30.0"H x 7.12'L StormTech SC-740x 7 Inside #1
		0.014 af	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	258.25'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.01 cfs @ 13.28 hrs HW=258.31' (Free Discharge)
 ↑**1=Exfiltration** (Exfiltration Controls 0.01 cfs)

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Summary for Pond 12P: BIO - SMA#7

Inflow Area = 0.140 ac, 64.29% Impervious, Inflow Depth = 3.70" for 100yr event
 Inflow = 0.90 cfs @ 11.97 hrs, Volume= 0.043 af
 Outflow = 0.06 cfs @ 12.61 hrs, Volume= 0.018 af, Atten= 93%, Lag= 38.3 min
 Primary = 0.06 cfs @ 12.61 hrs, Volume= 0.018 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 259.20' @ 24.00 hrs Surf.Area= 512 sf Storage= 1,210 cf

Plug-Flow detention time= 346.6 min calculated for 0.018 af (41% of inflow)
 Center-of-Mass det. time= 224.6 min (1,041.4 - 816.8)

Volume	Invert	Avail.Storage	Storage Description
#1	257.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	255.33'	1,322 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,362 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
257.50	50	0	0
259.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
255.33	340	110.0	40.0	0	0	340
256.00	340	110.0	20.0	46	46	414
258.50	340	110.0	100.0	850	896	689
259.50	520	125.0	100.0	427	1,322	993

Device	Routing	Invert	Outlet Devices
#1	Device 2	259.00'	8.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	257.95'	8.0" x 36.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 257.75' S= 0.0056 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.06 cfs @ 12.61 hrs HW=259.04' TW=257.45' (Dynamic Tailwater)
 ↑2=Culvert (Passes 0.06 cfs of 1.13 cfs potential flow)
 ↑1=STANDPIPE (Weir Controls 0.06 cfs @ 0.69 fps)

Summary for Pond 13P: BIO - SMA#9

Inflow Area = 0.110 ac, 63.64% Impervious, Inflow Depth = 3.70" for 100yr event
 Inflow = 0.71 cfs @ 11.97 hrs, Volume= 0.034 af
 Outflow = 0.36 cfs @ 12.07 hrs, Volume= 0.020 af, Atten= 49%, Lag= 6.2 min
 Primary = 0.36 cfs @ 12.07 hrs, Volume= 0.020 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

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Peak Elev= 262.17' @ 12.07 hrs Surf.Area= 353 sf Storage= 668 cf

Plug-Flow detention time= 204.2 min calculated for 0.020 af (58% of inflow)
Center-of-Mass det. time= 91.8 min (908.5 - 816.8)

Volume	Invert	Avail.Storage	Storage Description
#1	260.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	258.33'	746 cf	BIORETENTION (Irregular) Listed below (Recalc)
		786 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.50	50	0	0
262.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
258.33	180	125.0	40.0	0	0	180
259.00	180	125.0	20.0	24	24	264
261.50	180	125.0	100.0	450	474	576
262.50	375	135.0	100.0	272	746	821

Device	Routing	Invert	Outlet Devices
#1	Device 2	262.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	260.50'	6.0" x 110.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 260.00' S= 0.0045 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.35 cfs @ 12.07 hrs HW=262.17' TW=258.73' (Dynamic Tailwater)
 ↑ 2=Culvert (Passes 0.35 cfs of 0.62 cfs potential flow)
 ↑ 1=STANDPIPE (Weir Controls 0.35 cfs @ 1.34 fps)

Summary for Pond 14P: BIO - SMA#10

Inflow Area = 0.120 ac, 66.67% Impervious, Inflow Depth = 3.80" for 100yr event
 Inflow = 0.79 cfs @ 11.97 hrs, Volume= 0.038 af
 Outflow = 0.80 cfs @ 12.01 hrs, Volume= 0.026 af, Atten= 0%, Lag= 2.4 min
 Primary = 0.80 cfs @ 12.01 hrs, Volume= 0.026 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 261.74' @ 12.01 hrs Surf.Area= 320 sf Storage= 583 cf

Plug-Flow detention time= 163.9 min calculated for 0.026 af (69% of inflow)
 Center-of-Mass det. time= 61.9 min (876.2 - 814.4)

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Volume	Invert	Avail.Storage	Storage Description
#1	260.00'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	257.83'	625 cf	BIORETENTION (Irregular) Listed below (Recalc)
		665 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.00	50	0	0
262.00	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.83	150	105.0	40.0	0	0	150
258.50	150	105.0	20.0	20	20	220
261.00	150	105.0	100.0	375	395	483
262.00	320	120.0	100.0	230	625	774

Device	Routing	Invert	Outlet Devices
#1	Device 2	261.50'	8.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.10'	8.0" x 56.0' long CULVERT CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 258.75' S= 0.0063 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.75 cfs @ 12.01 hrs HW=261.73' TW=258.64' (Dynamic Tailwater)

↑2=CULVERT (Passes 0.75 cfs of 1.92 cfs potential flow)

↑1=STANDPIPE (Weir Controls 0.75 cfs @ 1.56 fps)

Summary for Pond 15P: BIO - SMA#11

Inflow Area = 0.100 ac, 60.00% Impervious, Inflow Depth = 3.40" for 100yr event
 Inflow = 0.59 cfs @ 11.97 hrs, Volume= 0.028 af
 Outflow = 0.29 cfs @ 12.09 hrs, Volume= 0.016 af, Atten= 52%, Lag= 7.1 min
 Primary = 0.29 cfs @ 12.09 hrs, Volume= 0.016 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 261.12' @ 12.09 hrs Surf.Area= 306 sf Storage= 567 cf

Plug-Flow detention time= 213.0 min calculated for 0.016 af (57% of inflow)
 Center-of-Mass det. time= 97.7 min (921.5 - 823.8)

Volume	Invert	Avail.Storage	Storage Description
#1	259.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	257.33'	645 cf	BIORETENTION (Irregular) Listed below (Recalc)
		685 cf	Total Available Storage

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
259.50	50	0	0
261.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.33	155	110.0	40.0	0	0	155
258.00	155	110.0	20.0	21	21	229
260.50	155	110.0	100.0	388	408	504
261.50	330	125.0	100.0	237	645	808

Device	Routing	Invert	Outlet Devices
#1	Device 2	261.00'	8.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	259.00'	8.0" x 53.0' long CULVERT CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 258.75' S= 0.0047 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.26 cfs @ 12.09 hrs HW=261.11' TW=259.02' (Dynamic Tailwater)

↑2=CULVERT (Passes 0.26 cfs of 1.67 cfs potential flow)

↑1=STANDPIPE (Weir Controls 0.26 cfs @ 1.09 fps)

Summary for Pond 16P: BIO - SMA#12

Inflow Area = 0.100 ac, 60.00% Impervious, Inflow Depth = 3.40" for 100yr event
 Inflow = 0.59 cfs @ 11.97 hrs, Volume= 0.028 af
 Outflow = 0.26 cfs @ 12.09 hrs, Volume= 0.016 af, Atten= 57%, Lag= 7.3 min
 Primary = 0.26 cfs @ 12.09 hrs, Volume= 0.016 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 262.14' @ 12.09 hrs Surf.Area= 309 sf Storage= 572 cf

Plug-Flow detention time= 214.2 min calculated for 0.016 af (57% of inflow)
 Center-of-Mass det. time= 98.6 min (922.5 - 823.8)

Volume	Invert	Avail.Storage	Storage Description
#1	260.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	258.33'	645 cf	BIORETENTION (Irregular) Listed below (Recalc)
		685 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.50	50	0	0
262.50	50	100	100

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Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
258.33	155	110.0	40.0	0	0	155
259.00	155	110.0	20.0	21	21	229
261.50	155	110.0	100.0	388	408	504
262.50	330	125.0	100.0	237	645	808

Device	Routing	Invert	Outlet Devices
#1	Device 2	262.00'	6.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	260.00'	6.0" x 83.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 259.55' S= 0.0054 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.23 cfs @ 12.09 hrs HW=262.13' TW=259.30' (Dynamic Tailwater)

↑2=Culvert (Passes 0.23 cfs of 0.78 cfs potential flow)

↑1=STANDPIPE (Weir Controls 0.23 cfs @ 1.16 fps)

Summary for Pond 17P: ROOFTOP DISCONNECT

Inflow Area = 3.260 ac, 12.27% Impervious, Inflow Depth = 0.64" for 100yr event
 Inflow = 0.66 cfs @ 12.70 hrs, Volume= 0.174 af
 Outflow = 0.08 cfs @ 22.84 hrs, Volume= 0.013 af, Atten= 87%, Lag= 608.7 min
 Primary = 0.08 cfs @ 22.84 hrs, Volume= 0.013 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 261.00' @ 22.84 hrs Surf.Area= 7,000 sf Storage= 7,000 cf

Plug-Flow detention time= 684.8 min calculated for 0.013 af (8% of inflow)
 Center-of-Mass det. time= 451.7 min (1,428.3 - 976.6)

Volume	Invert	Avail.Storage	Storage Description
#1	260.00'	7,000 cf	DISCONNECT (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
260.00	7,000	0	0
261.00	7,000	7,000	7,000

Device	Routing	Invert	Outlet Devices
#1	Primary	261.00'	700.0' long x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.08 cfs @ 22.84 hrs HW=261.00' TW=257.01' (Dynamic Tailwater)

↑1=Broad-Crested Rectangular Weir (Weir Controls 0.08 cfs @ 0.09 fps)

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Summary for Pond 18P: DRYWELL#1

Inflow Area = 0.210 ac, 61.90% Impervious, Inflow Depth = 1.28" for 100yr event
 Inflow = 0.36 cfs @ 12.07 hrs, Volume= 0.022 af
 Outflow = 0.07 cfs @ 12.04 hrs, Volume= 0.022 af, Atten= 81%, Lag= 0.0 min
 Discarded = 0.07 cfs @ 12.04 hrs, Volume= 0.022 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 260.05' @ 12.47 hrs Surf.Area= 113 sf Storage= 142 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 10.0 min (965.9 - 955.9)

Volume	Invert	Avail.Storage	Storage Description
#1	257.83'	111 cf	12.00'D x 3.50'H STONE 396 cf Overall - 118 cf Embedded = 278 cf x 40.0% Voids
#2	258.50'	101 cf	8.00'D x 2.00'H DW1 - Vertical Cone/Cylinder Inside #1 118 cf Overall - 4.0" Wall Thickness = 101 cf
		212 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	257.83'	0.07 cfs Exfiltration at all elevations

Discarded OutFlow Max=0.07 cfs @ 12.04 hrs HW=258.21' (Free Discharge)

↳ **1=Exfiltration** (Exfiltration Controls 0.07 cfs)

Summary for Pond 19P: INFILTRATOR #3

Inflow Area = 0.220 ac, 63.64% Impervious, Inflow Depth = 2.30" for 100yr event
 Inflow = 0.81 cfs @ 12.01 hrs, Volume= 0.042 af
 Outflow = 0.02 cfs @ 16.97 hrs, Volume= 0.042 af, Atten= 97%, Lag= 297.4 min
 Discarded = 0.02 cfs @ 11.96 hrs, Volume= 0.040 af
 Primary = 0.01 cfs @ 16.97 hrs, Volume= 0.002 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 260.31' @ 16.97 hrs Surf.Area= 750 sf Storage= 1,055 cf

Plug-Flow detention time= 645.2 min calculated for 0.042 af (100% of inflow)
 Center-of-Mass det. time= 645.4 min (1,538.8 - 893.5)

Volume	Invert	Avail.Storage	Storage Description
#1	258.25'	682 cf	5.00'W x 75.00'L x 3.50'H Prismatic x 2 2,625 cf Overall - 919 cf Embedded = 1,706 cf x 40.0% Voids
#2	258.75'	919 cf	44.6"W x 30.0"H x 7.12'L StormTech SC-740 x 20 Inside #1
		1,601 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	258.25'	1.000 in/hr Exfiltration over Surface area
#2	Primary	260.25'	6.0" x 44.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 260.00' S= 0.0057 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

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Discarded OutFlow Max=0.02 cfs @ 11.96 hrs HW=258.33' (Free Discharge)

↳ **1=Exfiltration** (Exfiltration Controls 0.02 cfs)

Primary OutFlow Max=0.01 cfs @ 16.97 hrs HW=260.31' TW=259.44' (Dynamic Tailwater)

↳ **2=Culvert** (Barrel Controls 0.01 cfs @ 0.81 fps)

Summary for Pond 20P: INFILTRATOR #4

Inflow Area = 0.140 ac, 64.29% Impervious, Inflow Depth = 1.50" for 100yr event
 Inflow = 0.06 cfs @ 12.61 hrs, Volume= 0.018 af
 Outflow = 0.01 cfs @ 12.52 hrs, Volume= 0.018 af, Atten= 89%, Lag= 0.0 min
 Discarded = 0.01 cfs @ 12.52 hrs, Volume= 0.018 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 259.22' @ 24.09 hrs Surf.Area= 0.007 ac Storage= 0.009 af

Plug-Flow detention time= 620.2 min calculated for 0.018 af (100% of inflow)

Center-of-Mass det. time= 620.6 min (1,661.9 - 1,041.4)

Volume	Invert	Avail.Storage	Storage Description
#1	257.25'	0.007 af	5.00'W x 60.00'L x 3.50'H Prismatic 0.024 af Overall - 0.007 af Embedded = 0.017 af x 40.0% Voids
#2	257.75'	0.007 af	44.6"W x 30.0"H x 7.12'L StormTech SC-740x7 Inside #1
		0.014 af	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	257.25'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.01 cfs @ 12.52 hrs HW=257.31' (Free Discharge)

↳ **1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond 21P: BIO - SMA#13

Inflow Area = 0.140 ac, 71.43% Impervious, Inflow Depth = 4.11" for 100yr event
 Inflow = 0.98 cfs @ 11.97 hrs, Volume= 0.048 af
 Outflow = 0.25 cfs @ 12.13 hrs, Volume= 0.024 af, Atten= 75%, Lag= 9.9 min
 Primary = 0.25 cfs @ 12.13 hrs, Volume= 0.024 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs

Peak Elev= 259.39' @ 24.05 hrs Surf.Area= 564 sf Storage= 1,249 cf

Plug-Flow detention time= 361.1 min calculated for 0.024 af (49% of inflow)

Center-of-Mass det. time= 247.2 min (1,054.0 - 806.9)

Volume	Invert	Avail.Storage	Storage Description
#1	257.50'	40 cf	GRAVEL DIAPHRAGM (Prismatic) Listed below (Recalc) 100 cf Overall x 40.0% Voids
#2	255.33'	1,268 cf	BIORETENTION (Irregular) Listed below (Recalc)
		1,308 cf	Total Available Storage

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
257.50	50	0	0
259.50	50	100	100

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
255.33	320	140.0	40.0	0	0	320
256.00	320	140.0	20.0	43	43	414
258.50	320	140.0	100.0	800	843	764
259.50	540	150.0	100.0	425	1,268	1,036

Device	Routing	Invert	Outlet Devices
#1	Device 2	259.00'	8.0" Horiz. STANDPIPE Limited to weir flow C= 0.600
#2	Primary	257.20'	8.0" x 34.0' long Culvert CPP, projecting, no headwall, Ke= 0.900 Outlet Invert= 257.00' S= 0.0059 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior

Primary OutFlow Max=0.23 cfs @ 12.13 hrs HW=259.10' TW=256.85' (Dynamic Tailwater)

↑2=Culvert (Passes 0.23 cfs of 1.66 cfs potential flow)

↑1=STANDPIPE (Weir Controls 0.23 cfs @ 1.05 fps)

Summary for Pond 22P: POROUS SECTION

Inflow Area = 0.011 ac, 100.00% Impervious, Inflow Depth = 6.01" for 100yr event
 Inflow = 0.01 cfs @ 14.79 hrs, Volume= 0.005 af
 Outflow = 0.01 cfs @ 14.60 hrs, Volume= 0.005 af, Atten= 6%, Lag= 0.0 min
 Discarded = 0.01 cfs @ 14.60 hrs, Volume= 0.005 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 257.01' @ 15.33 hrs Surf.Area= 460 sf Storage= 2 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 0.7 min (950.0 - 949.3)

Volume	Invert	Avail.Storage	Storage Description
#1	257.00'	276 cf	POROUS (Irregular) Listed below (Recalc) 690 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.00	460	85.0	0	0	460
258.50	460	85.0	690	690	588

Device	Routing	Invert	Outlet Devices
#1	Discarded	257.00'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.01 cfs @ 14.60 hrs HW=257.00' (Free Discharge)

↑1=Exfiltration (Exfiltration Controls 0.01 cfs)

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Summary for Pond 23P: POROUS SECTION

Inflow Area = 0.037 ac, 100.00% Impervious, Inflow Depth = 6.01" for 100yr event
 Inflow = 0.04 cfs @ 14.79 hrs, Volume= 0.018 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 258.25' @ 36.84 hrs Surf.Area= 1,600 sf Storage= 802 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	257.00'	960 cf	POROUS (Irregular) Listed below (Recalc) 2,400 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.00	1,600	210.0	0	0	1,600
258.50	1,600	210.0	2,400	2,400	1,915

Summary for Pond 24P: INFILTRATOR #1

Inflow Area = 0.204 ac, 57.84% Impervious, Inflow Depth = 1.07" for 100yr event
 Inflow = 0.26 cfs @ 12.09 hrs, Volume= 0.018 af
 Outflow = 0.01 cfs @ 12.08 hrs, Volume= 0.018 af, Atten= 97%, Lag= 0.0 min
 Discarded = 0.01 cfs @ 12.08 hrs, Volume= 0.018 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 261.54' @ 24.17 hrs Surf.Area= 0.007 ac Storage= 0.011 af

Plug-Flow detention time= 697.4 min calculated for 0.018 af (100% of inflow)
 Center-of-Mass det. time= 697.6 min (1,668.2 - 970.6)

Volume	Invert	Avail.Storage	Storage Description
#1	259.05'	0.007 af	5.00'W x 60.00'L x 3.50'H Prismaoid 0.024 af Overall - 0.007 af Embedded = 0.017 af x 40.0% Voids
#2	259.55'	0.007 af	44.6"W x 30.0"H x 7.12'L StormTech SC-740x 7 Inside #1
		0.014 af	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	259.05'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.01 cfs @ 12.08 hrs HW=259.22' (Free Discharge)
 ↑**1=Exfiltration** (Exfiltration Controls 0.01 cfs)

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Summary for Pond 25P: DRYWELL#3

Inflow Area = 0.190 ac, 57.89% Impervious, Inflow Depth = 0.05" for 100yr event
 Inflow = 0.01 cfs @ 24.02 hrs, Volume= 0.001 af
 Outflow = 0.01 cfs @ 24.02 hrs, Volume= 0.001 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.01 cfs @ 24.02 hrs, Volume= 0.001 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 258.28' @ 0.00 hrs Surf.Area= 113 sf Storage= 0 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 0.0 min (1,438.3 - 1,438.3)

Volume	Invert	Avail.Storage	Storage Description
#1	258.28'	89 cf	12.00'D x 3.00'H STONE 339 cf Overall - 118 cf Embedded = 221 cf x 40.0% Voids
#2	258.95'	101 cf	8.00'D x 2.00'H DW1 - Vertical Cone/Cylinder Inside #1 118 cf Overall - 4.0" Wall Thickness = 101 cf
		189 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	258.28'	0.07 cfs Exfiltration at all elevations

Discarded OutFlow Max=0.00 cfs @ 24.02 hrs HW=258.28' (Free Discharge)
 ↑1=Exfiltration (Passes 0.00 cfs of 0.07 cfs potential flow)

Summary for Pond 26P: INFILTRATOR #5

Inflow Area = 0.140 ac, 71.43% Impervious, Inflow Depth = 2.03" for 100yr event
 Inflow = 0.25 cfs @ 12.13 hrs, Volume= 0.024 af
 Outflow = 0.01 cfs @ 12.08 hrs, Volume= 0.024 af, Atten= 97%, Lag= 0.0 min
 Discarded = 0.01 cfs @ 12.08 hrs, Volume= 0.024 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs
 Peak Elev= 259.42' @ 23.73 hrs Surf.Area= 0.007 ac Storage= 0.012 af

Plug-Flow detention time= 907.7 min calculated for 0.024 af (100% of inflow)
 Center-of-Mass det. time= 908.0 min (1,962.0 - 1,054.0)

Volume	Invert	Avail.Storage	Storage Description
#1	256.50'	0.007 af	5.00'W x 60.00'L x 3.50'H Prismatic 0.024 af Overall - 0.007 af Embedded = 0.017 af x 40.0% Voids
#2	257.00'	0.007 af	44.6"W x 30.0"H x 7.12'L StormTech SC-740x7 Inside #1
		0.014 af	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Discarded	256.50'	1.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.01 cfs @ 12.08 hrs HW=256.57' (Free Discharge)
 ↑1=Exfiltration (Exfiltration Controls 0.01 cfs)

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Summary for Link A: DESIGN POINT

Inflow Area = 5.690 ac, 30.58% Impervious, Inflow Depth = 1.39" for 100yr event
Inflow = 4.79 cfs @ 12.49 hrs, Volume= 0.661 af
Primary = 4.79 cfs @ 12.49 hrs, Volume= 0.661 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-100.00 hrs, dt= 0.04 hrs