D. Summary:

The subject site complies with the Town of Hudson Stormwater Management and Erosion Control Regulations and NHDES Regulations Env-Wq 1500 in regard to stormwater treatment and groundwater recharge volume. Proposed stormwater best management practices (BMP) are designed in accordance with the New Hampshire Stormwater Manual Volume 2: Post-Construction Best Management Practices Selection and Design and BMP worksheets provided by the New Hampshire Department of Environmental Services. In addition, stormwater discharges, in terms of peak rate of runoff and total volume, are consistent with the Town of Hudson Stormwater Regulations and NHDES Regulations Env-Wq 1500. The results are reported below in Table 1 and 2.

Table 1: Peak Runoff (Env-Wq 1507.06)

Site Pre-Development vs. Post Development (Peak Discharge Rate in cfs)								
Description	**2-Year**		**10-Year**		**25-Year**		**50-Year**	
24-hr Rainfall	2.96 in/hr		4.47 in/hr		5.66 in/hr		6.77 in/hr	
	Pre	Post	Pre	Post	Pre	Post	Pre	Post
A	**4.72**	3.42	**9.13**	6.25	**12.81**	10.35	**17.16**	14.30
B	**3.14**	2.28	**6.11**	4.78	**8.58**	7.91	**11.32**	10.33
C	**5.64**	3.84	**11.93**	10.94	**17.38**	15.49	**23.00**	22.54

Table 2: Channel Protection Requirements (Env-Wq 1507.05)

Site Pre-Development vs. Post Development (Storm Volume in Acre-Feet)			
Description	**2-Year**		
24-hr Rainfall	2.97 in/hr		
	Pre	Post	Comments
A	**3.44**	3.42	Complies with Env-Wq 1507.05 (b)(3)
B	**2.28**	2.28	Complies with Env-Wq 1507.05 (b)(3)
C	**3.89**	3.84	Complies with Env-Wq 1507.05 (b)(3)

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

FILTRATION PRACTICE DESIGN CRITERIA (Env-Wq 1508.07)

Type/Node Name: **Bioretention Pond #1**

Enter the type of filtration practice (e.g., bioretention system) and the node name in the drainage analysis, if applicable.

yes		Check if you reviewed the restrictions on unlined systems outlined in Env-Wq 1508.07(a).	
2.51	ac	A = Area draining to the practice	
1.39	ac	A_I = Impervious area draining to the practice	
0.55	decimal	I = Percent impervious area draining to the practice, in decimal form	
0.55	unitless	Rv = Runoff coefficient = 0.05 + (0.9 x I)	
1.38	ac-in	WQV= 1" x Rv x A	
4,997	cf	WQV conversion (ac-in x 43,560 sf/ac x 1ft/12")	
1,249	cf	25% x WQV (check calc for sediment forebay volume)	
3,748	cf	75% x WQV (check calc for surface sand filter volume)	
Forebay		Method of Pretreatment? (not required for clean or roof runoff)	
1,250	cf	V_{SED} = Sediment forebay volume, if used for pretreatment	≥ 25%WQV
Calculate time to drain if system IS NOT underdrained:			
	sf	A_{SA} = Surface area of the practice	
	iph	$Ksat_{DESIGN}$ = Design infiltration rate[1]	
		If Ksat (prior to factor of safety) is < 0.50 iph, has an underdrain been provided?	
	Yes/No	(Use the calculations below)	
-	hours	T_{DRAIN} = Drain time = V / (A_{SA} * I_{DESIGN})	≤ 72-hrs
Calculate time to drain if system IS underdrained:			
291.88	ft	E_{WQV} = Elevation of WQV (attach stage-storage table)	
0.69	cfs	Q_{WQV} = Discharge at the E_{WQV} (attach stage-discharge table)	
4.02	hours	T_{DRAIN} = Drain time = 2WQV/Q_{WQV}	≤ 72-hrs
286.25	feet	E_{FC} = Elevation of the bottom of the filter course material[2]	
285.25	feet	E_{UD} = Invert elevation of the underdrain (UD), if applicable	
288.60	feet	E_{SHWT} = Elevation of SHWT (if none found, enter the lowest elevation of the test pit)	
288.60	feet	E_{ROCK} = Elevation of bedrock (if none found, enter the lowest elevation of the test pit)	
1.00	feet	$D_{FC\ to\ UD}$ = Depth to UD from the bottom of the filter course	≥ 1'
(2.35)	feet	$D_{FC\ to\ ROCK}$ = Depth to bedrock from the bottom of the filter course	≥ 1'
(2.35)	feet	$D_{FC\ to\ SHWT}$ = Depth to SHWT from the bottom of the filter course	≥ 1'
293.47	ft	Peak elevation of the 50-year storm event (infiltration can be used in analysis)	
294.00	ft	Elevation of the top of the practice	
YES		50 peak elevation ≤ Elevation of the top of the practice	← yes
If a surface sand filter or underground sand filter is proposed:			
YES	ac	Drainage Area check.	< 10 ac
	cf	V = Volume of storage[3] (attach a stage-storage table)	≥ 75%WQV
	inches	D_{FC} = Filter course thickness	18", or 24" if within GPA
Sheet		Note what sheet in the plan set contains the filter course specification.	
	Yes/No	Access grate provided?	← yes

If a bioretention area is proposed:			
YES	ac	Drainage Area no larger than 5 ac?	**← yes**
5,642	cf	V = Volume of storage[3] (attach a stage-storage table)	**≥ WQV**
18.0	inches	D_{FC} = Filter course thickness	**18", or 24" if within GPA**
Sheet	49	Note what sheet in the plan set contains the filter course specification	
3.0	:1	Pond side slopes	**≥ 3:1**
Sheet	49	Note what sheet in the plan set contains the planting plans and surface cover	
If porous pavement is proposed:			
		Type of pavement proposed (Concrete? Asphalt? Pavers? Etc.)	
	acres	A_{SA} = Surface area of the pervious pavement	
	:1	Ratio of the contributing area to the pervious surface area	**≤ 5:1**
	inches	D_{FC} = Filter course thickness	**12", or 18" if within GPA mod. 304.1 (see spec)**
Sheet		Note what sheet in the plan set contains the filter course spec.	

1. Rate of the limiting layer (either the filter course or the underlying soil). $Ksat_{design}$ includes factor of safey. See Env-Wq 1504.14 for guidance on determining the infiltration rate.

2. See lines 34, 40 and 48 for required depths of filter media.

3. Volume without depending on infiltration. The volume includes the storage above the filter (but below the invert of the outlet stucture, if any), the filter media voids, and the pretreatment area. The storage above the filter media shall not include the volume above the outlet structure, if any.

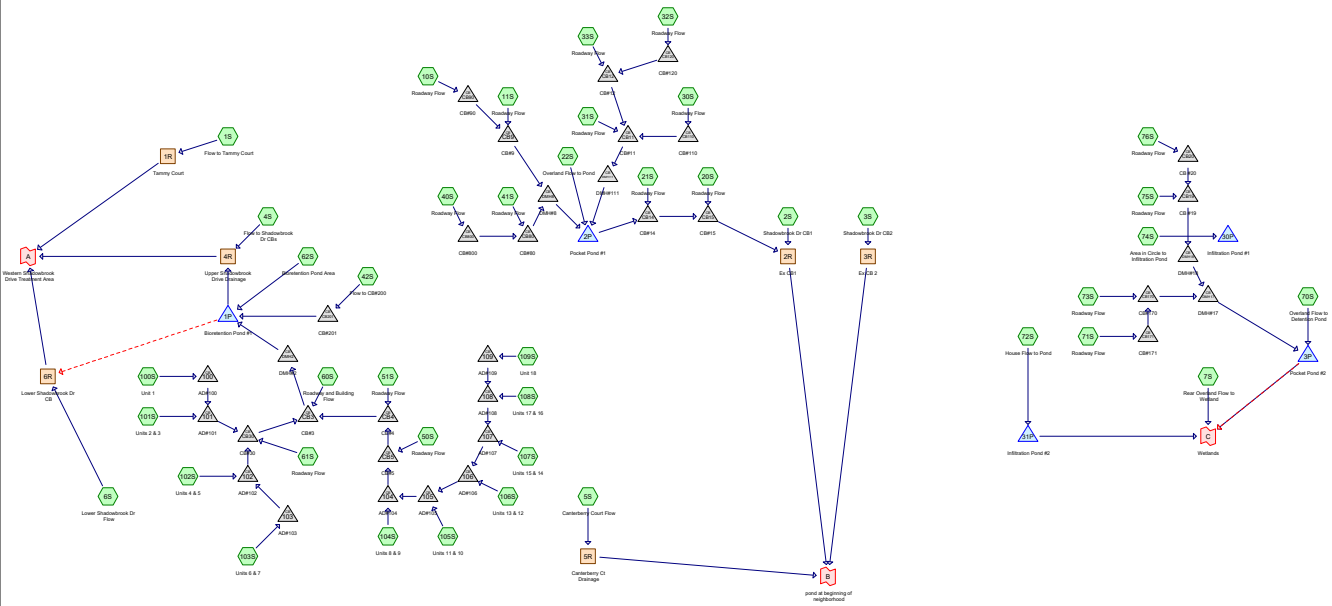
Designer's Notes:

Stage-Discharge for Pond 1P: Bioretention Pond #1

Elevation (feet)	Discharge (cfs)	Primary (cfs)	Secondary (cfs)
288.00	0.00	0.00	0.00
288.10	0.11	0.11	0.00
288.20	0.12	0.12	0.00
288.30	0.12	0.12	0.00
288.40	0.13	0.13	0.00
288.50	0.14	0.14	0.00
288.60	0.15	0.15	0.00
288.70	0.16	0.16	0.00
288.80	0.17	0.17	0.00
288.90	0.17	0.17	0.00
289.00	0.18	0.18	0.00
289.10	0.19	0.19	0.00
289.20	0.20	0.20	0.00
289.30	0.21	0.21	0.00
289.40	0.21	0.21	0.00
289.50	0.22	0.22	0.00
289.60	0.23	0.23	0.00
289.70	0.24	0.24	0.00
289.80	0.25	0.25	0.00
289.90	0.26	0.26	0.00
290.00	0.26	0.26	0.00
290.10	0.27	0.27	0.00
290.20	0.29	0.29	0.00
290.30	0.30	0.30	0.00
290.40	0.31	0.31	0.00
290.50	0.32	0.32	0.00
290.60	0.33	0.33	0.00
290.70	0.34	0.34	0.00
290.80	0.35	0.35	0.00
290.90	0.36	0.36	0.00
291.00	0.37	0.37	0.00
291.10	0.41	0.41	0.00
291.20	0.44	0.44	0.00
291.30	0.48	0.48	0.00
291.40	0.51	0.51	0.00
291.50	0.55	0.55	0.00
291.60	0.59	0.59	0.00
291.70	0.62	0.62	0.00
291.80	0.66	0.66	0.00
291.90	0.70	0.70	0.00
292.00	0.73	0.73	0.00
292.10	0.75	0.75	0.00
292.20	0.82	0.82	0.00
292.30	0.98	0.98	0.00
292.40	1.23	1.23	0.00
292.50	1.55	1.55	0.00
292.60	1.95	1.95	0.00
292.70	2.40	2.40	0.00
292.80	2.90	2.90	0.00
292.90	3.43	3.43	0.00
293.00	3.97	3.97	0.00
293.10	4.52	4.52	0.00
293.20	5.04	5.04	0.00
293.30	5.49	5.49	0.00
293.40	5.85	5.85	0.00
293.50	6.21	6.21	0.00
293.60	8.21	8.21	0.00
293.70	10.83	10.83	0.00
293.80	10.89	10.89	0.00
293.90	11.28	10.96	0.31
294.00	**11.92**	**11.03**	**0.89**

Stage-Area-Storage for Pond 1P: Bioretention Pond #1

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
288.00	434	0
288.10	469	45
288.20	505	94
288.30	540	146
288.40	575	202
288.50	611	261
288.60	646	324
288.70	681	390
288.80	716	460
288.90	752	534
289.00	787	611
289.10	822	691
289.20	858	775
289.30	893	862
289.40	928	954
289.50	964	1,048
289.60	999	1,146
289.70	1,034	1,248
289.80	1,069	1,353
289.90	1,105	1,462
290.00	1,140	1,574
290.10	1,186	1,690
290.20	1,232	1,811
290.30	1,277	1,937
290.40	1,323	2,067
290.50	1,369	2,201
290.60	1,415	2,340
290.70	1,461	2,484
290.80	1,506	2,633
290.90	1,552	2,785
291.00	1,598	2,943
291.10	1,754	3,111
291.20	1,910	3,294
291.30	2,067	3,493
291.40	2,223	3,707
291.50	2,379	3,937
291.60	2,535	4,183
291.70	2,691	4,444
291.80	2,848	4,721
291.90	3,004	5,014
292.00	3,160	5,322
292.10	3,241	5,642
292.20	3,322	5,970
292.30	3,403	6,306
292.40	3,484	6,651
292.50	3,566	7,003
292.60	3,647	7,364
292.70	3,728	7,733
292.80	3,809	8,110
292.90	3,890	8,494
293.00	3,971	8,888
293.10	4,052	9,289
293.20	4,133	9,698
293.30	4,214	10,115
293.40	4,295	10,541
293.50	4,377	10,974
293.60	4,458	11,416
293.70	4,539	11,866
293.80	4,620	12,324
293.90	4,701	12,790
294.00	**4,782**	**13,264**



Routing Diagram for 1708241-POST-DEVELOPMENT
Prepared by KNA, Printed 10/10/2022
HydroCAD® 10.00-26 s/n 01045 © 2020 HydroCAD Software Solutions LLC

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
5.51	39	>75% Grass cover, Good, HSG A (1S, 2S, 3S, 4S, 5S, 6S, 7S, 10S, 11S, 20S, 21S, 22S, 30S, 31S, 32S, 33S, 40S, 41S, 42S, 50S, 51S, 60S, 61S, 62S, 70S, 71S, 72S, 73S, 74S, 75S, 76S)
0.23	74	>75% Grass cover, Good, HSG C (7S, 40S, 42S, 72S, 74S)
4.24	80	>75% Grass cover, Good, HSG D (1S, 2S, 3S, 4S, 7S, 10S, 11S, 20S, 21S, 22S, 30S, 31S, 32S, 33S, 40S, 41S, 42S, 70S, 71S, 72S, 74S, 75S, 76S)
2.39	98	Paved parking, HSG A (2S, 3S, 4S, 5S, 6S, 20S, 21S, 22S, 30S, 31S, 32S, 33S, 40S, 41S, 42S, 50S, 51S, 60S, 61S, 71S, 72S, 73S, 75S, 76S)
0.00	98	Paved parking, HSG C (40S)
0.65	98	Paved parking, HSG D (10S, 21S, 30S, 31S, 32S, 40S, 41S, 71S, 72S, 75S, 76S)
1.71	98	Roofs, HSG A (1S, 3S, 5S, 6S, 7S, 10S, 11S, 21S, 22S, 33S, 40S, 41S, 42S, 51S, 60S, 70S, 71S, 72S, 74S, 75S, 76S, 100S, 101S, 102S, 103S, 104S, 105S, 106S, 107S, 108S, 109S)
0.04	98	Roofs, HSG C (7S, 40S, 42S, 74S)
1.21	98	Roofs, HSG D (1S, 2S, 7S, 11S, 20S, 21S, 22S, 32S, 33S, 40S, 41S, 42S, 70S, 71S, 72S, 74S, 75S, 76S)
0.08	30	Woods, Good, HSG A (3S, 6S)
0.26	55	Woods, Good, HSG B (7S)
0.60	70	Woods, Good, HSG C (7S)
3.74	77	Woods, Good, HSG D (1S, 3S, 4S, 7S, 32S, 42S, 70S, 76S)
20.68	**73**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
9.70	HSG A	1S, 2S, 3S, 4S, 5S, 6S, 7S, 10S, 11S, 20S, 21S, 22S, 30S, 31S, 32S, 33S, 40S, 41S, 42S, 50S, 51S, 60S, 61S, 62S, 70S, 71S, 72S, 73S, 74S, 75S, 76S, 100S, 101S, 102S, 103S, 104S, 105S, 106S, 107S, 108S, 109S
0.26	HSG B	7S
0.87	HSG C	7S, 40S, 42S, 72S, 74S
9.85	HSG D	1S, 2S, 3S, 4S, 7S, 10S, 11S, 20S, 21S, 22S, 30S, 31S, 32S, 33S, 40S, 41S, 42S, 70S, 71S, 72S, 74S, 75S, 76S
0.00	Other	
20.68		**TOTAL AREA**

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Flow to Tammy Court Runoff Area=57,559 sf 17.28% Impervious Runoff Depth>1.29"
Flow Length=263' Slope=0.6600 '/' Tc=6.0 min CN=WQ Runoff=1.86 cfs 0.142 af

Subcatchment2S: Shadowbrook Dr CB1 Runoff Area=7,546 sf 57.32% Impervious Runoff Depth>1.79"
Flow Length=300' Slope=0.0200 '/' Tc=6.0 min CN=WQ Runoff=0.32 cfs 0.026 af

Subcatchment3S: Shadowbrook Dr CB2 Runoff Area=24,663 sf 8.93% Impervious Runoff Depth>0.99"
Flow Length=344' Tc=8.6 min CN=WQ Runoff=0.56 cfs 0.047 af

Subcatchment4S: Flow to Shadowbrook Runoff Area=11,312 sf 38.41% Impervious Runoff Depth>1.69"
Tc=6.0 min CN=WQ Runoff=0.47 cfs 0.037 af

Subcatchment5S: Canterberry Court Flow Runoff Area=36,412 sf 15.94% Impervious Runoff Depth>0.43"
Flow Length=187' Tc=6.0 min CN=WQ Runoff=0.37 cfs 0.030 af

Subcatchment6S: Lower Shadowbrook Dr Runoff Area=72,715 sf 12.69% Impervious Runoff Depth>0.35"
Flow Length=137' Tc=6.0 min CN=WQ Runoff=0.59 cfs 0.048 af

Subcatchment7S: Rear Overland Flow to Runoff Area=85,028 sf 6.43% Impervious Runoff Depth>0.84"
Flow Length=183' Tc=11.5 min CN=WQ Runoff=1.43 cfs 0.137 af

Subcatchment10S: Roadway Flow Runoff Area=13,692 sf 72.11% Impervious Runoff Depth>1.97"
Flow Length=307' Slope=0.0150 '/' Tc=6.0 min CN=WQ Runoff=0.64 cfs 0.052 af

Subcatchment11S: Roadway Flow Runoff Area=25,722 sf 45.39% Impervious Runoff Depth>1.80"
Flow Length=279' Tc=6.0 min CN=WQ Runoff=1.13 cfs 0.089 af

Subcatchment20S: Roadway Flow Runoff Area=2,774 sf 40.41% Impervious Runoff Depth>1.54"
Flow Length=65' Tc=6.0 min CN=WQ Runoff=0.10 cfs 0.008 af

Subcatchment21S: Roadway Flow Runoff Area=9,904 sf 37.65% Impervious Runoff Depth>1.50"
Flow Length=203' Tc=6.0 min CN=WQ Runoff=0.36 cfs 0.028 af

Subcatchment22S: Overland Flow to Pond Runoff Area=17,710 sf 12.85% Impervious Runoff Depth>0.90"
Flow Length=47' Slope=0.2127 '/' Tc=6.0 min CN=WQ Runoff=0.40 cfs 0.031 af

Subcatchment30S: Roadway Flow Runoff Area=14,714 sf 52.43% Impervious Runoff Depth>2.00"
Flow Length=276' Tc=6.0 min CN=WQ Runoff=0.72 cfs 0.056 af

Subcatchment31S: Roadway Flow Runoff Area=17,194 sf 38.30% Impervious Runoff Depth>1.52"
Flow Length=230' Tc=6.0 min CN=WQ Runoff=0.64 cfs 0.050 af

Subcatchment32S: Roadway Flow Runoff Area=21,651 sf 47.90% Impervious Runoff Depth>1.87"
Flow Length=223' Tc=6.0 min CN=WQ Runoff=0.98 cfs 0.077 af

Subcatchment33S: Roadway Flow Runoff Area=10,356 sf 52.43% Impervious Runoff Depth>1.63"
Flow Length=257' Tc=6.0 min CN=WQ Runoff=0.40 cfs 0.032 af

Subcatchment40S: Roadway Flow Runoff Area=11,686 sf 72.99% Impervious Runoff Depth>2.08"
Flow Length=263' Slope=0.0150 '/' Tc=6.0 min CN=WQ Runoff=0.57 cfs 0.046 af

Subcatchment41S: Roadway Flow Runoff Area=16,070 sf 43.83% Impervious Runoff Depth>1.82"
Flow Length=268' Tc=6.5 min CN=WQ Runoff=0.71 cfs 0.056 af

Subcatchment42S: Flow to CB#200 Runoff Area=29,920 sf 40.43% Impervious Runoff Depth>1.71"
Flow Length=385' Tc=6.0 min CN=WQ Runoff=1.24 cfs 0.098 af

Subcatchment50S: Roadway Flow Runoff Area=12,898 sf 58.95% Impervious Runoff Depth>1.61"
Flow Length=300' Tc=6.0 min CN=WQ Runoff=0.49 cfs 0.040 af

Subcatchment51S: Roadway Flow Runoff Area=12,915 sf 65.19% Impervious Runoff Depth>1.78"
Flow Length=163' Tc=6.0 min CN=WQ Runoff=0.54 cfs 0.044 af

Subcatchment60S: Roadway and Building Runoff Area=23,012 sf 40.57% Impervious Runoff Depth>1.11"
Flow Length=220' Tc=6.0 min CN=WQ Runoff=0.60 cfs 0.049 af

Subcatchment61S: Roadway Flow Runoff Area=7,564 sf 83.43% Impervious Runoff Depth>2.28"
Flow Length=152' Slope=0.0200 '/' Tc=6.0 min CN=WQ Runoff=0.41 cfs 0.033 af

Subcatchment62S: Bioretention Pond Area Runoff Area=6,453 sf 0.00% Impervious Runoff Depth=0.00"
Tc=6.0 min CN=39 Runoff=0.00 cfs 0.000 af

Subcatchment70S: Overland Flow to Runoff Area=128,858 sf 1.40% Impervious Runoff Depth>0.99"
Flow Length=745' Tc=14.6 min CN=WQ Runoff=2.52 cfs 0.244 af

Subcatchment71S: Roadway Flow Runoff Area=26,495 sf 66.16% Impervious Runoff Depth>1.97"
Flow Length=300' Tc=6.0 min CN=WQ Runoff=1.24 cfs 0.100 af

Subcatchment72S: House Flow to Pond Runoff Area=49,031 sf 39.15% Impervious Runoff Depth>1.21"
Flow Length=127' Tc=6.0 min CN=WQ Runoff=1.41 cfs 0.113 af

Subcatchment73S: Roadway Flow Runoff Area=5,932 sf 76.82% Impervious Runoff Depth>2.09"
Flow Length=200' Slope=0.0200 '/' Tc=6.0 min CN=WQ Runoff=0.29 cfs 0.024 af

Subcatchment74S: Area in Circle to Runoff Area=17,656 sf 37.64% Impervious Runoff Depth>1.18"
Flow Length=40' Slope=0.1000 '/' Tc=6.0 min CN=WQ Runoff=0.50 cfs 0.040 af

Subcatchment75S: Roadway Flow Runoff Area=13,639 sf 67.50% Impervious Runoff Depth>2.04"
Flow Length=196' Slope=0.0200 '/' Tc=6.0 min CN=WQ Runoff=0.66 cfs 0.053 af

Subcatchment76S: Roadway Flow Runoff Area=93,020 sf 28.84% Impervious Runoff Depth>1.46"
Flow Length=468' Tc=9.0 min CN=WQ Runoff=3.01 cfs 0.260 af

Subcatchment100S: Unit 1 Runoff Area=920 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.06 cfs 0.005 af

Subcatchment101S: Units 2 & 3 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af

Subcatchment102S: Units 4 & 5 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af

Subcatchment103S: Units 6 & 7 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af

Subcatchment104S: Units 8 & 9 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af

Subcatchment105S: Units 11 & 10 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af

Subcatchment106S: Units 13 & 12 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af

Subcatchment107S: Units 15 & 14 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af

Subcatchment108S: Units 17 & 16 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af

Subcatchment109S: Unit 18 Runoff Area=920 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.06 cfs 0.005 af

Reach 1R: Tammy Court Inflow=1.86 cfs 0.142 af
Outflow=1.86 cfs 0.142 af

Reach 2R: Ex CB1 Inflow=1.37 cfs 0.538 af
Outflow=1.37 cfs 0.538 af

Reach 3R: Ex CB 2 Inflow=0.56 cfs 0.047 af
Outflow=0.56 cfs 0.047 af

Reach 4R: Upper Shadowbrook Drive Drainage Inflow=1.00 cfs 0.386 af
Outflow=1.00 cfs 0.386 af

Reach 5R: Canterberry Ct Drainage Inflow=0.37 cfs 0.030 af
Outflow=0.37 cfs 0.030 af

Reach 6R: Lower Shadowbrook Dr CB Inflow=0.59 cfs 0.048 af
Outflow=0.59 cfs 0.048 af

Pond 1P: Bioretention Pond #1 Peak Elev=292.12' Storage=5,701 cf Inflow=4.34 cfs 0.349 af
Primary=0.76 cfs 0.349 af Secondary=0.00 cfs 0.000 af Outflow=0.76 cfs 0.349 af

Pond 2P: Pocket Pond #1 Peak Elev=311.76' Storage=14,665 cf Inflow=6.17 cfs 0.489 af
Outflow=1.01 cfs 0.476 af

Pond 3P: Pocket Pond #2 Peak Elev=273.96' Storage=13,156 cf Inflow=7.01 cfs 0.681 af
Primary=3.08 cfs 0.667 af Secondary=0.00 cfs 0.000 af Outflow=3.08 cfs 0.667 af

Pond 30P: Infiltration Pond #1 Peak Elev=280.44' Storage=675 cf Inflow=0.50 cfs 0.040 af
Outflow=0.04 cfs 0.040 af

Pond 31P: Infiltration Pond #2 Peak Elev=274.65' Storage=2,155 cf Inflow=1.41 cfs 0.113 af
Discarded=0.08 cfs 0.104 af Primary=0.00 cfs 0.000 af Outflow=0.08 cfs 0.104 af

Pond 100: AD#100 Peak Elev=295.94' Inflow=0.06 cfs 0.005 af
8.0" Round Culvert n=0.013 L=58.1' S=0.0251 '/' Outflow=0.06 cfs 0.005 af

Pond 101: AD#101 Peak Elev=294.48' Inflow=0.18 cfs 0.014 af
8.0" Round Culvert n=0.013 L=37.0' S=0.0500 '/' Outflow=0.18 cfs 0.014 af

Pond 102: AD#102 Peak Elev=293.24' Inflow=0.24 cfs 0.019 af
8.0" Round Culvert n=0.013 L=27.4' S=0.0201 '/' Outflow=0.24 cfs 0.019 af

Pond 103: AD#103 Peak Elev=294.42' Inflow=0.12 cfs 0.010 af
8.0" Round Culvert n=0.013 L=59.0' S=0.0200 '/' Outflow=0.12 cfs 0.010 af

Pond 104: AD#104 Peak Elev=295.76' Inflow=0.65 cfs 0.053 af
8.0" Round Culvert n=0.013 L=16.6' S=0.0367 '/' Outflow=0.65 cfs 0.053 af

Pond 105: AD#105 Peak Elev=297.96' Inflow=0.53 cfs 0.043 af
8.0" Round Culvert n=0.013 L=53.8' S=0.0400 '/' Outflow=0.53 cfs 0.043 af

Pond 106: AD#106 Peak Elev=300.24' Inflow=0.41 cfs 0.034 af
8.0" Round Culvert n=0.013 L=55.9' S=0.0401 '/' Outflow=0.41 cfs 0.034 af

Pond 107: AD#107 Peak Elev=303.18' Inflow=0.30 cfs 0.024 af
8.0" Round Culvert n=0.013 L=64.0' S=0.0450 '/' Outflow=0.30 cfs 0.024 af

Pond 108: AD#108 Peak Elev=306.08' Inflow=0.18 cfs 0.014 af
8.0" Round Culvert n=0.013 L=64.5' S=0.0448 '/' Outflow=0.18 cfs 0.014 af

Pond 109: AD#109 Peak Elev=308.82' Inflow=0.06 cfs 0.005 af
8.0" Round Culvert n=0.013 L=49.9' S=0.0549 '/' Outflow=0.06 cfs 0.005 af

Pond CB11: CB#11 Peak Elev=311.76' Inflow=2.74 cfs 0.216 af
18.0" Round Culvert n=0.013 L=30.3' S=0.0050 '/' Outflow=2.74 cfs 0.216 af

Pond CB110: CB#110 Peak Elev=311.76' Inflow=0.72 cfs 0.056 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0050 '/' Outflow=0.72 cfs 0.056 af

Pond CB12: CB#12 Peak Elev=313.57' Inflow=1.38 cfs 0.110 af
15.0" Round Culvert n=0.013 L=106.0' S=0.0263 '/' Outflow=1.38 cfs 0.110 af

Pond CB120: CB#120 Peak Elev=313.85' Inflow=0.98 cfs 0.077 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0100 '/' Outflow=0.98 cfs 0.077 af

Pond CB14: CB#14 Peak Elev=308.28' Inflow=1.08 cfs 0.504 af
15.0" Round Culvert n=0.013 L=37.9' S=0.0150 '/' Outflow=1.08 cfs 0.504 af

Pond CB15: CB#15 Peak Elev=307.62' Inflow=1.10 cfs 0.512 af
15.0" Round Culvert n=0.013 L=120.0' S=0.0539 '/' Outflow=1.10 cfs 0.512 af

Pond CB170: CB#170 Peak Elev=278.50' Inflow=1.53 cfs 0.124 af
15.0" Round Culvert n=0.013 L=36.7' S=0.0199 '/' Outflow=1.53 cfs 0.124 af

Pond CB171: CB#171 Peak Elev=278.81' Inflow=1.24 cfs 0.100 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0100 '/' Outflow=1.24 cfs 0.100 af

Pond CB19: CB #19 Peak Elev=277.60' Inflow=3.64 cfs 0.313 af
18.0" Round Culvert n=0.013 L=33.8' S=0.0151 '/' Outflow=3.64 cfs 0.313 af

Pond CB20: CB #20 Peak Elev=278.07' Inflow=3.01 cfs 0.260 af
18.0" Round Culvert n=0.013 L=22.0' S=0.0200 '/' Outflow=3.01 cfs 0.260 af

Pond CB201: CB#201 Peak Elev=292.49' Inflow=1.24 cfs 0.098 af
15.0" Round Culvert n=0.013 L=82.0' S=0.0052 '/' Outflow=1.24 cfs 0.098 af

Pond CB3: CB#3 Peak Elev=293.05' Inflow=3.10 cfs 0.252 af
15.0" Round Culvert n=0.013 L=80.0' S=0.0100 '/' Outflow=3.10 cfs 0.252 af

Pond CB30: CB#30 Peak Elev=293.09' Inflow=0.82 cfs 0.067 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0050 '/' Outflow=0.82 cfs 0.067 af

Pond CB4: CB#4 Peak Elev=294.87' Inflow=1.68 cfs 0.136 af
15.0" Round Culvert n=0.013 L=80.9' S=0.0205 '/' Outflow=1.68 cfs 0.136 af

Pond CB5: CB#5 Peak Elev=295.14' Inflow=1.14 cfs 0.092 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0100 '/' Outflow=1.14 cfs 0.092 af

Pond CB80: CB#80 Peak Elev=311.76' Inflow=1.28 cfs 0.102 af
15.0" Round Culvert n=0.013 L=15.1' S=0.0053 '/' Outflow=1.28 cfs 0.102 af

Pond CB800: CB#800 Peak Elev=311.76' Inflow=0.57 cfs 0.046 af
15.0" Round Culvert n=0.013 L=22.7' S=0.0048 '/' Outflow=0.57 cfs 0.046 af

Pond CB9: CB#9 Peak Elev=314.69' Inflow=1.76 cfs 0.140 af
15.0" Round Culvert n=0.013 L=203.6' S=0.0174 '/' Outflow=1.76 cfs 0.140 af

Pond CB90: CB#90 Peak Elev=315.11' Inflow=0.64 cfs 0.052 af
15.0" Round Culvert n=0.013 L=29.8' S=0.0201 '/' Outflow=0.64 cfs 0.052 af

Pond DMH111: DMH#111 Peak Elev=311.76' Inflow=2.74 cfs 0.216 af
24.0" Round Culvert n=0.013 L=40.3' S=0.0050 '/' Outflow=2.74 cfs 0.216 af

Pond DMH17: DMH#17 Peak Elev=275.87' Inflow=5.11 cfs 0.437 af
24.0" Round Culvert n=0.013 L=279.8' S=0.0100 '/' Outflow=5.11 cfs 0.437 af

Pond DMH18: DMH#18 Peak Elev=276.97' Inflow=3.64 cfs 0.313 af
18.0" Round Culvert n=0.013 L=71.6' S=0.0149 '/' Outflow=3.64 cfs 0.313 af

Pond DMH2: DMH#2 Peak Elev=292.23' Inflow=3.10 cfs 0.252 af
18.0" Round Culvert n=0.013 L=50.2' S=0.0030 '/' Outflow=3.10 cfs 0.252 af

Pond DMH8: DMH#8 Peak Elev=311.76' Inflow=3.04 cfs 0.243 af
18.0" Round Culvert n=0.013 L=13.4' S=0.0052 '/' Outflow=3.04 cfs 0.243 af

Link A: Western Shadowbrook Drive Treatment Area Inflow=3.42 cfs 0.576 af
Primary=3.42 cfs 0.576 af

Link B: pond at beginning of neighborhood Inflow=2.28 cfs 0.615 af
Primary=2.28 cfs 0.615 af

Link C: Wetlands Inflow=3.83 cfs 0.804 af
Primary=3.83 cfs 0.804 af

Total Runoff Area = 20.68 ac Runoff Volume = 2.176 af Average Runoff Depth = 1.26"
70.94% Pervious = 14.67 ac 29.06% Impervious = 6.01 ac

Summary for Subcatchment 1S: Flow to Tammy Court

Runoff = 1.86 cfs @ 12.09 hrs, Volume= 0.142 af, Depth> 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
3,365	98	Roofs, HSG D
6,582	98	Roofs, HSG A
34,775	80	>75% Grass cover, Good, HSG D
8,430	39	>75% Grass cover, Good, HSG A
4,407	77	Woods, Good, HSG D
57,559		Weighted Average
47,612		82.72% Pervious Area
9,947		17.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	50	0.6600	0.57		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.6	213	0.6600	5.69		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.1	263	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2S: Shadowbrook Dr CB1

Runoff = 0.32 cfs @ 12.09 hrs, Volume= 0.026 af, Depth> 1.79"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
4,085	98	Paved parking, HSG A
240	98	Roofs, HSG D
1,432	80	>75% Grass cover, Good, HSG D
1,789	39	>75% Grass cover, Good, HSG A
7,546		Weighted Average
3,221		42.68% Pervious Area
4,325		57.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.5	250	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 3S: Shadowbrook Dr CB2

Runoff = 0.56 cfs @ 12.13 hrs, Volume= 0.047 af, Depth> 0.99"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
257	98	Roofs, HSG A
6,196	80	>75% Grass cover, Good, HSG D
5,530	39	>75% Grass cover, Good, HSG A
10,329	77	Woods, Good, HSG D
405	30	Woods, Good, HSG A
1,946	98	Paved parking, HSG A
24,663		Weighted Average
22,460		91.07% Pervious Area
2,203		8.93% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
1.9	226	0.1500	1.94		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.3	48	0.1300	2.52		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.1	20	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
8.6	344	Total			

Summary for Subcatchment 4S: Flow to Shadowbrook Dr CBs

Runoff = 0.47 cfs @ 12.09 hrs, Volume= 0.037 af, Depth> 1.69"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
2,537	80	>75% Grass cover, Good, HSG D
400	39	>75% Grass cover, Good, HSG A
0	74	>75% Grass cover, Good, HSG C
4,345	98	Paved parking, HSG A
4,030	77	Woods, Good, HSG D
11,312		Weighted Average
6,967		61.59% Pervious Area
4,345		38.41% Impervious Area

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

Summary for Subcatchment 5S: Canterberry Court Flow

Runoff = 0.37 cfs @ 12.09 hrs, Volume= 0.030 af, Depth> 0.43"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
1,564	98	Roofs, HSG A
30,607	39	>75% Grass cover, Good, HSG A
4,241	98	Paved parking, HSG A
36,412		Weighted Average
30,607		84.06% Pervious Area
5,805		15.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.7	137	0.2000	3.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.3	187	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 6S: Lower Shadowbrook Dr Flow

Runoff = 0.59 cfs @ 12.09 hrs, Volume= 0.048 af, Depth> 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
1,440	98	Roofs, HSG A
3,236	30	Woods, Good, HSG A
60,250	39	>75% Grass cover, Good, HSG A
7,789	98	Paved parking, HSG A
72,715		Weighted Average
63,486		87.31% Pervious Area
9,229		12.69% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.1	38	0.4500	4.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	49	0.3600	3.00		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
3.0	137	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 7S: Rear Overland Flow to Wetland

Runoff = 1.43 cfs @ 12.17 hrs, Volume= 0.137 af, Depth> 0.84"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
2,935	98	Roofs, HSG D
2,417	98	Roofs, HSG A
118	98	Roofs, HSG C
10,710	80	>75% Grass cover, Good, HSG D
8,039	39	>75% Grass cover, Good, HSG A
4,292	74	>75% Grass cover, Good, HSG C
19,271	77	Woods, Good, HSG D
26,053	70	Woods, Good, HSG C
11,193	55	Woods, Good, HSG B
85,028		Weighted Average
79,558		93.57% Pervious Area
5,470		6.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.8	50	0.0400	0.08		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
1.7	133	0.0650	1.27		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
11.5	183	Total			

Summary for Subcatchment 10S: Roadway Flow

Runoff = 0.64 cfs @ 12.09 hrs, Volume= 0.052 af, Depth> 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
3,052	98	Roofs, HSG A
12	80	>75% Grass cover, Good, HSG D
3,807	39	>75% Grass cover, Good, HSG A
506	98	Paved parking, HSG D
6,315	98	Roofs, HSG A
13,692		Weighted Average
3,819		27.89% Pervious Area
9,873		72.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0150	1.01		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.7	257	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.5	307	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11S: Roadway Flow

Runoff = 1.13 cfs @ 12.09 hrs, Volume= 0.089 af, Depth> 1.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
6,240	98	Roofs, HSG D
11,906	80	>75% Grass cover, Good, HSG D
2,142	39	>75% Grass cover, Good, HSG A
1,643	98	Roofs, HSG D
3,791	98	Roofs, HSG A
25,722		Weighted Average
14,048		54.61% Pervious Area
11,674		45.39% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	24	0.3300	0.37		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.3	26	0.0600	0.19		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.8	46	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.2	183	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
5.4	279	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 20S: Roadway Flow

Runoff = 0.10 cfs @ 12.09 hrs, Volume= 0.008 af, Depth> 1.54"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
396	98	Roofs, HSG D
993	80	>75% Grass cover, Good, HSG D
660	39	>75% Grass cover, Good, HSG A
725	98	Paved parking, HSG A
2,774		Weighted Average
1,653		59.59% Pervious Area
1,121		40.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	50	0.0500	0.20		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.1	15	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.2	65	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 21S: Roadway Flow

Runoff = 0.36 cfs @ 12.09 hrs, Volume= 0.028 af, Depth> 1.50"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
1,651	98	Roofs, HSG D
365	98	Roofs, HSG A
3,879	80	>75% Grass cover, Good, HSG D
2,296	39	>75% Grass cover, Good, HSG A
4	98	Paved parking, HSG D
1,709	98	Paved parking, HSG A
9,904		Weighted Average
6,175		62.35% Pervious Area
3,729		37.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	50	0.1200	0.29		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.9	98	0.0700	1.85		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	55	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.1	203	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 22S: Overland Flow to Pond

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 0.031 af, Depth> 0.90"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
1,512	98	Roofs, HSG D
645	98	Roofs, HSG A
8,034	80	>75% Grass cover, Good, HSG D
7,400	39	>75% Grass cover, Good, HSG A
119	98	Paved parking, HSG A
17,710		Weighted Average
15,434		87.15% Pervious Area
2,276		12.85% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.2	47	0.2127	0.36		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.2	47	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 30S: Roadway Flow

Runoff = 0.72 cfs @ 12.09 hrs, Volume= 0.056 af, Depth> 2.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
4,540	98	Paved parking, HSG D
6,935	80	>75% Grass cover, Good, HSG D
65	39	>75% Grass cover, Good, HSG A
1,636	98	Paved parking, HSG D
1,538	98	Paved parking, HSG A
14,714		Weighted Average
7,000		47.57% Pervious Area
7,714		52.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
1.1	64	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.9	162	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.6	276	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 31S: Roadway Flow

Runoff = 0.64 cfs @ 12.09 hrs, Volume= 0.050 af, Depth> 1.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
2,626	98	Paved parking, HSG D
1,214	98	Paved parking, HSG A
6,749	80	>75% Grass cover, Good, HSG D
3,860	39	>75% Grass cover, Good, HSG A
2,745	98	Paved parking, HSG A
17,194		Weighted Average
10,609		61.70% Pervious Area
6,585		38.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.1	50	0.2800	0.40		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.3	60	0.2000	3.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	120	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
3.1	230	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 32S: Roadway Flow

Runoff = 0.98 cfs @ 12.09 hrs, Volume= 0.077 af, Depth> 1.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
5,015	98	Roofs, HSG D
8,256	80	>75% Grass cover, Good, HSG D
991	39	>75% Grass cover, Good, HSG A
1,964	98	Paved parking, HSG D
3,391	98	Paved parking, HSG A
2,034	77	Woods, Good, HSG D
21,651		Weighted Average
11,281		52.10% Pervious Area
10,370		47.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	40	0.2500	0.17		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
0.7	10	0.2000	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.3	63	0.3300	4.02		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.6	110	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
5.6	223	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 33S: Roadway Flow

Runoff = 0.40 cfs @ 12.09 hrs, Volume= 0.032 af, Depth> 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
948	98	Roofs, HSG D
395	98	Roofs, HSG A
1,701	80	>75% Grass cover, Good, HSG D
3,225	39	>75% Grass cover, Good, HSG A
4,087	98	Paved parking, HSG A
10,356		Weighted Average
4,926		47.57% Pervious Area
5,430		52.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.2	37	0.2000	3.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.0	170	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
3.8	257	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 40S: Roadway Flow

Runoff = 0.57 cfs @ 12.09 hrs, Volume= 0.046 af, Depth> 2.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
752	98	Roofs, HSG D
1,321	98	Roofs, HSG A
391	98	Roofs, HSG C
780	80	>75% Grass cover, Good, HSG D
2,326	39	>75% Grass cover, Good, HSG A
50	74	>75% Grass cover, Good, HSG C
1,115	98	Paved parking, HSG D
4,921	98	Paved parking, HSG A
30	98	Paved parking, HSG C
11,686		Weighted Average
3,156		27.01% Pervious Area
8,530		72.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0150	1.01		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.4	213	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	263	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 41S: Roadway Flow

Runoff = 0.71 cfs @ 12.10 hrs, Volume= 0.056 af, Depth> 1.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
2,949	98	Roofs, HSG D
157	98	Roofs, HSG A
8,262	80	>75% Grass cover, Good, HSG D
765	39	>75% Grass cover, Good, HSG A
1,393	98	Paved parking, HSG D
2,544	98	Paved parking, HSG A
16,070		Weighted Average
9,027		56.17% Pervious Area
7,043		43.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	40	0.0250	0.15		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.5	10	0.3300	0.31		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.6	80	0.1000	2.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.9	138	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
6.5	268	Total			

Summary for Subcatchment 42S: Flow to CB#200

Runoff = 1.24 cfs @ 12.09 hrs, Volume= 0.098 af, Depth> 1.71"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
1,682	39	>75% Grass cover, Good, HSG A
10,383	80	>75% Grass cover, Good, HSG D
3,530	74	>75% Grass cover, Good, HSG C
6,936	98	Paved parking, HSG A
2,228	77	Woods, Good, HSG D
170	98	Roofs, HSG A
90	98	Roofs, HSG C
2,670	98	Roofs, HSG D
1,237	98	Roofs, HSG A
994	98	Roofs, HSG C
29,920		Weighted Average
17,823		59.57% Pervious Area
12,097		40.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.2	335	0.0500	4.54		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.9	385	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 50S: Roadway Flow

Runoff = 0.49 cfs @ 12.09 hrs, Volume= 0.040 af, Depth> 1.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
5,295	39	>75% Grass cover, Good, HSG A
7,603	98	Paved parking, HSG A
12,898		Weighted Average
5,295		41.05% Pervious Area
7,603		58.95% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	50	0.0550	1.71		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.9	250	0.0500	4.54		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.4	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 51S: Roadway Flow

Runoff = 0.54 cfs @ 12.09 hrs, Volume= 0.044 af, Depth> 1.78"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
3,027	98	Roofs, HSG A
4,496	39	>75% Grass cover, Good, HSG A
5,392	98	Paved parking, HSG A
12,915		Weighted Average
4,496		34.81% Pervious Area
8,419		65.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	50	0.0800	0.25		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.6	76	0.0900	2.10		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.1	37	0.0500	4.54		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.1	163	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 60S: Roadway and Building Flow

Runoff = 0.60 cfs @ 12.09 hrs, Volume= 0.049 af, Depth> 1.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
3,213	98	Roofs, HSG A
13,675	39	>75% Grass cover, Good, HSG A
6,124	98	Paved parking, HSG A
23,012		Weighted Average
13,675		59.43% Pervious Area
9,337		40.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.6	155	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.1	15	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
5.3	220	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 61S: Roadway Flow

Runoff = 0.41 cfs @ 12.09 hrs, Volume= 0.033 af, Depth> 2.28"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
1,253	39	>75% Grass cover, Good, HSG A
6,311	98	Paved parking, HSG A
7,564		Weighted Average
1,253		16.57% Pervious Area
6,311		83.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.6	102	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.3	152	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 62S: Bioretention Pond Area

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

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
6,453	39	>75% Grass cover, Good, HSG A
6,453		100.00% Pervious Area

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

Summary for Subcatchment 70S: Overland Flow to Detention Pond

Runoff = 2.52 cfs @ 12.21 hrs, Volume= 0.244 af, Depth> 0.99"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
607	98	Roofs, HSG D
1,192	98	Roofs, HSG A
24,819	80	>75% Grass cover, Good, HSG D
13,185	39	>75% Grass cover, Good, HSG A
89,055	77	Woods, Good, HSG D
128,858		Weighted Average
127,059		98.60% Pervious Area
1,799		1.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0800	0.11		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
3.6	391	0.1300	1.80		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
3.5	304	0.0430	1.45		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
14.6	745	Total			

Summary for Subcatchment 71S: Roadway Flow

Runoff = 1.24 cfs @ 12.09 hrs, Volume= 0.100 af, Depth> 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
2,572	98	Roofs, HSG D
3,565	98	Roofs, HSG A
3,581	80	>75% Grass cover, Good, HSG D
5,385	39	>75% Grass cover, Good, HSG A
1,533	98	Paved parking, HSG D
9,859	98	Paved parking, HSG A
26,495		Weighted Average
8,966		33.84% Pervious Area
17,529		66.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	50	0.0800	0.25		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
1.5	250	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.9	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 72S: House Flow to Pond

Runoff = 1.41 cfs @ 12.09 hrs, Volume= 0.113 af, Depth> 1.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
2,848	98	Roofs, HSG D
9,725	98	Roofs, HSG A
23,884	39	>75% Grass cover, Good, HSG A
4,734	80	>75% Grass cover, Good, HSG D
1,216	74	>75% Grass cover, Good, HSG C
1,330	98	Paved parking, HSG D
5,294	98	Paved parking, HSG A
49,031		Weighted Average
29,834		60.85% Pervious Area
19,197		39.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.3	77	0.3100	3.90		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.0	127	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 73S: Roadway Flow

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 0.024 af, Depth> 2.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
1,375	39	>75% Grass cover, Good, HSG A
4,557	98	Paved parking, HSG A
5,932		Weighted Average
1,375		23.18% Pervious Area
4,557		76.82% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.9	150	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.6	200	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 74S: Area in Circle to Infiltration Pond

Runoff = 0.50 cfs @ 12.09 hrs, Volume= 0.040 af, Depth> 1.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
4,851	98	Roofs, HSG A
8,558	39	>75% Grass cover, Good, HSG A
1,547	98	Roofs, HSG D
248	98	Roofs, HSG C
1,588	80	>75% Grass cover, Good, HSG D
864	74	>75% Grass cover, Good, HSG C
17,656		Weighted Average
11,010		62.36% Pervious Area
6,646		37.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	40	0.1000	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.6	40	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 75S: Roadway Flow

Runoff = 0.66 cfs @ 12.09 hrs, Volume= 0.053 af, Depth> 2.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
295	98	Roofs, HSG D
1,380	98	Roofs, HSG A
2,209	80	>75% Grass cover, Good, HSG D
2,224	39	>75% Grass cover, Good, HSG A
4,186	98	Paved parking, HSG D
3,345	98	Paved parking, HSG A
13,639		Weighted Average
4,433		32.50% Pervious Area
9,206		67.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.8	146	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.5	196	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 76S: Roadway Flow

Runoff = 3.01 cfs @ 12.13 hrs, Volume= 0.260 af, Depth> 1.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
14,560	98	Roofs, HSG D
1,133	98	Roofs, HSG A
24,384	80	>75% Grass cover, Good, HSG D
10,102	39	>75% Grass cover, Good, HSG A
31,709	77	Woods, Good, HSG D
7,686	98	Paved parking, HSG D
3,446	98	Paved parking, HSG A
93,020		Weighted Average
66,195		71.16% Pervious Area
26,825		28.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
0.9	130	0.2150	2.32		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
1.0	120	0.0830	2.02		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.8	168	0.0300	3.52		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
9.0	468	Total			

Summary for Subcatchment 100S: Unit 1

Runoff = 0.06 cfs @ 12.09 hrs, Volume= 0.005 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
920	98	Roofs, HSG A
920		100.00% Impervious Area

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

Summary for Subcatchment 101S: Units 2 & 3

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 102S: Units 4 & 5

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 103S: Units 6 & 7

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 104S: Units 8 & 9

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 105S: Units 11 & 10

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 106S: Units 13 & 12

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 107S: Units 15 & 14

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 108S: Units 17 & 16

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 109S: Unit 18

Runoff = 0.06 cfs @ 12.09 hrs, Volume= 0.005 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=2.96"

Area (sf)	CN	Description
920	98	Roofs, HSG A
920		100.00% Impervious Area

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

Summary for Reach 1R: Tammy Court

Inflow Area = 1.32 ac, 17.28% Impervious, Inflow Depth > 1.29" for 2-yr event
Inflow = 1.86 cfs @ 12.09 hrs, Volume= 0.142 af
Outflow = 1.86 cfs @ 12.09 hrs, Volume= 0.142 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 2R: Ex CB1

Inflow Area = 3.88 ac, 46.55% Impervious, Inflow Depth > 1.66" for 2-yr event
Inflow = 1.37 cfs @ 12.10 hrs, Volume= 0.538 af
Outflow = 1.37 cfs @ 12.10 hrs, Volume= 0.538 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 3R: Ex CB 2

Inflow Area = 0.57 ac, 8.93% Impervious, Inflow Depth > 0.99" for 2-yr event
Inflow = 0.56 cfs @ 12.13 hrs, Volume= 0.047 af
Outflow = 0.56 cfs @ 12.13 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 4R: Upper Shadowbrook Drive Drainage

Inflow Area = 2.77 ac, 53.61% Impervious, Inflow Depth > 1.67" for 2-yr event
Inflow = 1.00 cfs @ 12.12 hrs, Volume= 0.386 af
Outflow = 1.00 cfs @ 12.12 hrs, Volume= 0.386 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 5R: Canterberry Ct Drainage

Inflow Area = 0.84 ac, 15.94% Impervious, Inflow Depth > 0.43" for 2-yr event
Inflow = 0.37 cfs @ 12.09 hrs, Volume= 0.030 af
Outflow = 0.37 cfs @ 12.09 hrs, Volume= 0.030 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 6R: Lower Shadowbrook Dr CB

Inflow Area = 1.67 ac, 12.69% Impervious, Inflow Depth > 0.35" for 2-yr event
Inflow = 0.59 cfs @ 12.09 hrs, Volume= 0.048 af
Outflow = 0.59 cfs @ 12.09 hrs, Volume= 0.048 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Pond 1P: Bioretention Pond #1

Inflow Area = 2.51 ac, 55.18% Impervious, Inflow Depth > 1.67" for 2-yr event
Inflow = 4.34 cfs @ 12.09 hrs, Volume= 0.349 af
Outflow = 0.76 cfs @ 12.55 hrs, Volume= 0.349 af, Atten= 83%, Lag= 27.9 min
Primary = 0.76 cfs @ 12.55 hrs, Volume= 0.349 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 292.12' @ 12.55 hrs Surf.Area= 3,256 sf Storage= 5,701 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 88.4 min (855.3 - 766.9)

Volume	Invert	Avail.Storage	Storage Description
#1	288.00'	13,264 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
288.00	434	0	0
290.00	1,140	1,574	1,574
291.00	1,598	1,369	2,943
292.00	3,160	2,379	5,322
294.00	4,782	7,942	13,264

Device	Routing	Invert	Outlet Devices
#1	Secondary	293.80'	**4.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64
#2	Device 5	288.00'	**10.000 in/hr Exfiltration over Surface area**
#3	Device 5	292.10'	**15.0" Vert. Orifice/Grate** C= 0.600
#4	Device 5	293.50'	**48.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Primary	285.00'	**12.0" Round Culvert** L= 55.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 285.00' / 283.04' S= 0.0354 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.76 cfs @ 12.55 hrs HW=292.12' TW=0.00' (Dynamic Tailwater)
└─**5=Culvert** (Passes 0.76 cfs of 9.73 cfs potential flow)
  ├─**2=Exfiltration** (Exfiltration Controls 0.75 cfs)
  ├─**3=Orifice/Grate** (Orifice Controls 0.00 cfs @ 0.46 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=288.00' TW=0.00' (Dynamic Tailwater)
└─**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 2P: Pocket Pond #1

Inflow Area = 3.42 ac, 46.71% Impervious, Inflow Depth > 1.72" for 2-yr event
Inflow = 6.17 cfs @ 12.09 hrs, Volume= 0.489 af
Outflow = 1.01 cfs @ 12.58 hrs, Volume= 0.476 af, Atten= 84%, Lag= 29.3 min
Primary = 1.01 cfs @ 12.58 hrs, Volume= 0.476 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Starting Elev= 309.79' Surf.Area= 3,009 sf Storage= 5,826 cf
Peak Elev= 311.76' @ 12.58 hrs Surf.Area= 6,282 sf Storage= 14,665 cf (8,839 cf above start)

Plug-Flow detention time= 309.6 min calculated for 0.342 af (70% of inflow)
Center-of-Mass det. time= 122.4 min (903.1 - 780.7)

Volume	Invert	Avail.Storage	Storage Description
#1	306.00'	27,930 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
306.00	306	196.0	0	0	306
308.00	1,616	240.0	1,750	1,750	1,894
310.00	3,201	285.0	4,728	6,478	3,846
312.00	6,785	438.0	9,764	16,242	12,678
313.50	8,844	470.0	11,688	27,930	15,088

Device	Routing	Invert	Outlet Devices
#1	Device 4	309.80'	**4.5" Vert. Orifice/Grate** C= 0.600
#2	Device 4	311.50'	**14.0" Vert. Orifice/Grate** C= 0.600
#3	Device 4	313.10'	**48.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Primary	309.75'	**15.0" Round Culvert** L= 93.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 309.75' / 307.89' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.01 cfs @ 12.58 hrs HW=311.76' TW=308.28' (Dynamic Tailwater)
└─**4=Culvert** (Passes 1.01 cfs of 6.95 cfs potential flow)
  ├─**1=Orifice/Grate** (Orifice Controls 0.71 cfs @ 6.41 fps)
  ├─**2=Orifice/Grate** (Orifice Controls 0.30 cfs @ 1.73 fps)
  └─**3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 3P: Pocket Pond #2

Inflow Area = 6.15 ac, 22.36% Impervious, Inflow Depth > 1.33" for 2-yr event
Inflow = 7.01 cfs @ 12.13 hrs, Volume= 0.681 af
Outflow = 3.08 cfs @ 12.47 hrs, Volume= 0.667 af, Atten= 56%, Lag= 20.6 min
Primary = 3.08 cfs @ 12.47 hrs, Volume= 0.667 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Starting Elev= 271.98' Surf.Area= 2,847 sf Storage= 5,675 cf
Peak Elev= 273.96' @ 12.47 hrs Surf.Area= 4,722 sf Storage= 13,156 cf (7,481 cf above start)

Plug-Flow detention time= 162.2 min calculated for 0.536 af (79% of inflow)
Center-of-Mass det. time= 34.9 min (847.3 - 812.4)

Volume	Invert	Avail.Storage	Storage Description
#1	268.00'	25,013 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
268.00	408	0	0
269.00	790	599	599
270.00	1,250	1,020	1,619
272.00	2,863	4,113	5,732
274.00	4,762	7,625	13,357
276.00	6,894	11,656	25,013

Device	Routing	Invert	Outlet Devices
#1	Device 4	272.00'	**9.0" Vert. Orifice/Grate** C= 0.600
#2	Secondary	275.35'	**10.0' long x 4.0' 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) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32
#3	Device 4	273.80'	**24.0" W x 10.0" H Vert. Orifice/Grate** C= 0.600

#4	Primary	272.00'	**18.0" Round Culvert** L= 105.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 272.00' / 271.57' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#5	Primary	275.70'	**48.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=3.07 cfs @ 12.47 hrs HW=273.96' TW=0.00' (Dynamic Tailwater)
- **4=Culvert** (Passes 3.07 cfs of 7.55 cfs potential flow)
  - **1=Orifice/Grate** (Orifice Controls 2.67 cfs @ 6.05 fps)
  - **3=Orifice/Grate** (Orifice Controls 0.39 cfs @ 1.26 fps)
- **5=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=271.98' TW=0.00' (Dynamic Tailwater)
- **2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 30P: Infiltration Pond #1

Inflow Area = 0.41 ac, 37.64% Impervious, Inflow Depth > 1.18" for 2-yr event
Inflow = 0.50 cfs @ 12.09 hrs, Volume= 0.040 af
Outflow = 0.04 cfs @ 13.06 hrs, Volume= 0.040 af, Atten= 91%, Lag= 58.5 min
Discarded = 0.04 cfs @ 13.06 hrs, Volume= 0.040 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 280.44' @ 13.06 hrs Surf.Area= 1,822 sf Storage= 675 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 135.6 min (905.5 - 769.9)

Volume	Invert	Avail.Storage	Storage Description
#1	280.00'	5,166 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
280.00	1,214	0	0
282.00	3,952	5,166	5,166

Device	Routing	Invert	Outlet Devices
#1	Discarded	280.00'	**1.000 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.04 cfs @ 13.06 hrs HW=280.44' (Free Discharge)
- **1=Exfiltration** (Exfiltration Controls 0.04 cfs)

Summary for Pond 31P: Infiltration Pond #2

Inflow Area = 1.13 ac, 39.15% Impervious, Inflow Depth > 1.21" for 2-yr event
Inflow = 1.41 cfs @ 12.09 hrs, Volume= 0.113 af
Outflow = 0.08 cfs @ 13.90 hrs, Volume= 0.104 af, Atten= 94%, Lag= 108.7 min
Discarded = 0.08 cfs @ 13.90 hrs, Volume= 0.104 af
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 274.65' @ 13.90 hrs Surf.Area= 3,637 sf Storage= 2,155 cf

Plug-Flow detention time= 222.4 min calculated for 0.104 af (92% of inflow)
Center-of-Mass det. time= 180.9 min (949.1 - 768.2)

Volume	Invert	Avail.Storage	Storage Description
#1	274.00'	7,938 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
274.00	3,030	0	0
276.00	4,908	7,938	7,938

Device	Routing	Invert	Outlet Devices
#1	Device 3	275.00'	**3.0" Vert. Orifice/Grate** C= 0.600
#2	Discarded	274.00'	**1.000 in/hr Exfiltration over Surface area**
#3	Primary	274.16'	**15.0" Round Culvert** L= 32.2' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 274.16' / 274.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#4	Primary	276.40'	**24.0" x 24.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.08 cfs @ 13.90 hrs HW=274.65' (Free Discharge)
└**2=Exfiltration** (Exfiltration Controls 0.08 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=274.00' TW=0.00' (Dynamic Tailwater)
├**3=Culvert** (Controls 0.00 cfs)
│└**1=Orifice/Grate** (Controls 0.00 cfs)
└**4=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 100: AD#100

Inflow Area = 0.02 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr event
Inflow = 0.06 cfs @ 12.09 hrs, Volume= 0.005 af
Outflow = 0.06 cfs @ 12.09 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
Primary = 0.06 cfs @ 12.09 hrs, Volume= 0.005 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.94' @ 12.09 hrs
Flood Elev= 297.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	295.81'	**8.0" Round Culvert** L= 58.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 295.81' / 294.35' S= 0.0251 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.06 cfs @ 12.09 hrs HW=295.94' TW=294.48' (Dynamic Tailwater)
└**1=Culvert** (Inlet Controls 0.06 cfs @ 1.22 fps)

Summary for Pond 101: AD#101

Inflow Area = 0.06 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr event
Inflow = 0.18 cfs @ 12.09 hrs, Volume= 0.014 af
Outflow = 0.18 cfs @ 12.09 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min
Primary = 0.18 cfs @ 12.09 hrs, Volume= 0.014 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 294.48' @ 12.09 hrs
Flood Elev= 297.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.25'	**8.0" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.25' / 292.40' S= 0.0500 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.17 cfs @ 12.09 hrs HW=294.48' TW=293.01' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.17 cfs @ 1.63 fps)

Summary for Pond 102: AD#102

Inflow Area = 0.08 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr event
Inflow = 0.24 cfs @ 12.09 hrs, Volume= 0.019 af
Outflow = 0.24 cfs @ 12.09 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min
Primary = 0.24 cfs @ 12.09 hrs, Volume= 0.019 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 293.24' @ 12.13 hrs
Flood Elev= 297.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	292.95'	**8.0" Round Culvert** L= 27.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.95' / 292.40' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.18 cfs @ 12.09 hrs HW=293.23' TW=293.01' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.18 cfs @ 1.93 fps)

Summary for Pond 103: AD#103

Inflow Area = 0.04 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr event
Inflow = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af
Outflow = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Atten= 0%, Lag= 0.0 min
Primary = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 294.42' @ 12.09 hrs
Flood Elev= 297.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.23'	**8.0" Round Culvert** L= 59.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.23' / 293.05' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.12 cfs @ 12.09 hrs HW=294.41' TW=293.23' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.12 cfs @ 1.46 fps)

Summary for Pond 104: AD#104

Inflow Area = 0.23 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr event
Inflow = 0.65 cfs @ 12.09 hrs, Volume= 0.053 af
Outflow = 0.65 cfs @ 12.09 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min
Primary = 0.65 cfs @ 12.09 hrs, Volume= 0.053 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.76' @ 12.09 hrs
Flood Elev= 299.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	295.27'	**8.0" Round Culvert** L= 16.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 295.27' / 294.66' S= 0.0367 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.63 cfs @ 12.09 hrs HW=295.75' TW=295.13' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.63 cfs @ 2.36 fps)

Summary for Pond 105: AD#105

Inflow Area = 0.19 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr event
Inflow = 0.53 cfs @ 12.09 hrs, Volume= 0.043 af
Outflow = 0.53 cfs @ 12.09 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min
Primary = 0.53 cfs @ 12.09 hrs, Volume= 0.043 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 297.96' @ 12.09 hrs
Flood Elev= 301.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	297.53'	**8.0" Round Culvert** L= 53.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 297.53' / 295.38' S= 0.0400 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.52 cfs @ 12.09 hrs HW=297.95' TW=295.75' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.52 cfs @ 2.22 fps)

Summary for Pond 106: AD#106

Inflow Area = 0.15 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr event
Inflow = 0.41 cfs @ 12.09 hrs, Volume= 0.034 af
Outflow = 0.41 cfs @ 12.09 hrs, Volume= 0.034 af, Atten= 0%, Lag= 0.0 min
Primary = 0.41 cfs @ 12.09 hrs, Volume= 0.034 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 300.24' @ 12.09 hrs
Flood Elev= 303.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	299.87'	**8.0" Round Culvert** L= 55.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 299.87' / 297.63' S= 0.0401 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.40 cfs @ 12.09 hrs HW=300.24' TW=297.95' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.40 cfs @ 2.06 fps)

Summary for Pond 107: AD#107

Inflow Area = 0.11 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr event
Inflow = 0.30 cfs @ 12.09 hrs, Volume= 0.024 af
Outflow = 0.30 cfs @ 12.09 hrs, Volume= 0.024 af, Atten= 0%, Lag= 0.0 min
Primary = 0.30 cfs @ 12.09 hrs, Volume= 0.024 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 303.18' @ 12.09 hrs
Flood Elev= 306.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	302.85'	**8.0" Round Culvert** L= 64.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 302.85' / 299.97' S= 0.0450 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.29 cfs @ 12.09 hrs HW=303.17' TW=300.24' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.29 cfs @ 1.71 fps)

Summary for Pond 108: AD#108

Inflow Area = 0.06 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr event
Inflow = 0.18 cfs @ 12.09 hrs, Volume= 0.014 af
Outflow = 0.18 cfs @ 12.09 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min
Primary = 0.18 cfs @ 12.09 hrs, Volume= 0.014 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 306.08' @ 12.09 hrs
Flood Elev= 309.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	305.85'	**8.0" Round Culvert** L= 64.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 305.85' / 302.96' S= 0.0448 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.17 cfs @ 12.09 hrs HW=306.08' TW=303.17' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.17 cfs @ 1.63 fps)

Summary for Pond 109: AD#109

Inflow Area = 0.02 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr event
Inflow = 0.06 cfs @ 12.09 hrs, Volume= 0.005 af
Outflow = 0.06 cfs @ 12.09 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
Primary = 0.06 cfs @ 12.09 hrs, Volume= 0.005 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 308.82' @ 12.09 hrs
Flood Elev= 311.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	308.69'	**8.0" Round Culvert** L= 49.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 308.69' / 305.95' S= 0.0549 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.06 cfs @ 12.09 hrs HW=308.82' TW=306.08' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.06 cfs @ 1.22 fps)

Summary for Pond CB11: CB#11

Inflow Area = 1.47 ac, 47.09% Impervious, Inflow Depth > 1.77" for 2-yr event
Inflow = 2.74 cfs @ 12.09 hrs, Volume= 0.216 af
Outflow = 2.74 cfs @ 12.09 hrs, Volume= 0.216 af, Atten= 0%, Lag= 0.0 min
Primary = 2.74 cfs @ 12.09 hrs, Volume= 0.216 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 311.76' @ 12.67 hrs
Flood Elev= 314.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.04'	**18.0" Round Culvert** L= 30.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.04' / 309.89' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.59 cfs @ 12.09 hrs HW=311.14' TW=311.06' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.59 cfs @ 1.60 fps)

Summary for Pond CB110: CB#110

Inflow Area = 0.34 ac, 52.43% Impervious, Inflow Depth > 2.00" for 2-yr event
Inflow = 0.72 cfs @ 12.09 hrs, Volume= 0.056 af
Outflow = 0.72 cfs @ 12.09 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min
Primary = 0.72 cfs @ 12.09 hrs, Volume= 0.056 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 311.76' @ 12.72 hrs
Flood Elev= 314.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.25'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.25' / 310.14' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=311.06' TW=311.14' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB12: CB#12

Inflow Area = 0.73 ac, 49.36% Impervious, Inflow Depth > 1.79" for 2-yr event
Inflow = 1.38 cfs @ 12.09 hrs, Volume= 0.110 af
Outflow = 1.38 cfs @ 12.09 hrs, Volume= 0.110 af, Atten= 0%, Lag= 0.0 min
Primary = 1.38 cfs @ 12.09 hrs, Volume= 0.110 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 313.57' @ 12.09 hrs
Flood Elev= 317.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	313.00'	**15.0" Round Culvert** L= 106.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 313.00' / 310.21' S= 0.0263 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.35 cfs @ 12.09 hrs HW=313.56' TW=311.14' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.35 cfs @ 2.55 fps)

Summary for Pond CB120: CB#120

Inflow Area = 0.50 ac, 47.90% Impervious, Inflow Depth > 1.87" for 2-yr event
Inflow = 0.98 cfs @ 12.09 hrs, Volume= 0.077 af
Outflow = 0.98 cfs @ 12.09 hrs, Volume= 0.077 af, Atten= 0%, Lag= 0.0 min
Primary = 0.98 cfs @ 12.09 hrs, Volume= 0.077 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 313.85' @ 12.10 hrs
Flood Elev= 317.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	313.32'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 313.32' / 313.10' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.90 cfs @ 12.09 hrs HW=313.84' TW=313.56' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.90 cfs @ 2.78 fps)

Summary for Pond CB14: CB#14

Inflow Area = 3.64 ac, 46.14% Impervious, Inflow Depth > 1.66" for 2-yr event
Inflow = 1.08 cfs @ 12.53 hrs, Volume= 0.504 af
Outflow = 1.08 cfs @ 12.53 hrs, Volume= 0.504 af, Atten= 0%, Lag= 0.0 min
Primary = 1.08 cfs @ 12.53 hrs, Volume= 0.504 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 308.28' @ 12.53 hrs
Flood Elev= 312.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	307.79'	**15.0" Round Culvert** L= 37.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 307.79' / 307.22' S= 0.0150 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.08 cfs @ 12.53 hrs HW=308.28' TW=307.62' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.08 cfs @ 2.39 fps)

Summary for Pond CB15: CB#15

Inflow Area = 3.71 ac, 46.04% Impervious, Inflow Depth > 1.66" for 2-yr event
Inflow = 1.10 cfs @ 12.52 hrs, Volume= 0.512 af
Outflow = 1.10 cfs @ 12.52 hrs, Volume= 0.512 af, Atten= 0%, Lag= 0.0 min
Primary = 1.10 cfs @ 12.52 hrs, Volume= 0.512 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 307.62' @ 12.52 hrs
Flood Elev= 312.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	307.12'	**15.0" Round Culvert** L= 120.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 307.12' / 300.65' S= 0.0539 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.10 cfs @ 12.52 hrs HW=307.62' TW=0.00' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.10 cfs @ 2.40 fps)

Summary for Pond CB170: CB#170

Inflow Area = 0.74 ac, 68.11% Impervious, Inflow Depth > 1.99" for 2-yr event
Inflow = 1.53 cfs @ 12.09 hrs, Volume= 0.124 af
Outflow = 1.53 cfs @ 12.09 hrs, Volume= 0.124 af, Atten= 0%, Lag= 0.0 min
Primary = 1.53 cfs @ 12.09 hrs, Volume= 0.124 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 278.50' @ 12.09 hrs
Flood Elev= 281.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	277.90'	**15.0" Round Culvert** L= 36.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 277.90' / 277.17' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.49 cfs @ 12.09 hrs HW=278.49' TW=275.84' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.49 cfs @ 2.62 fps)

Summary for Pond CB171: CB#171

Inflow Area = 0.61 ac, 66.16% Impervious, Inflow Depth > 1.97" for 2-yr event
Inflow = 1.24 cfs @ 12.09 hrs, Volume= 0.100 af
Outflow = 1.24 cfs @ 12.09 hrs, Volume= 0.100 af, Atten= 0%, Lag= 0.0 min
Primary = 1.24 cfs @ 12.09 hrs, Volume= 0.100 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 278.81' @ 12.10 hrs
Flood Elev= 281.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.22'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 278.22' / 278.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.15 cfs @ 12.09 hrs HW=278.80' TW=278.49' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.15 cfs @ 3.01 fps)

Summary for Pond CB19: CB #19

Inflow Area = 2.45 ac, 33.78% Impervious, Inflow Depth > 1.53" for 2-yr event
Inflow = 3.64 cfs @ 12.12 hrs, Volume= 0.313 af
Outflow = 3.64 cfs @ 12.12 hrs, Volume= 0.313 af, Atten= 0%, Lag= 0.0 min
Primary = 3.64 cfs @ 12.12 hrs, Volume= 0.313 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 277.60' @ 12.14 hrs
Flood Elev= 281.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.67'	**18.0" Round Culvert** L= 33.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 276.67' / 276.16' S= 0.0151 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.38 cfs @ 12.12 hrs HW=277.58' TW=276.95' (Dynamic Tailwater)
1=Culvert (Outlet Controls 3.38 cfs @ 4.31 fps)

Summary for Pond CB20: CB #20

Inflow Area = 2.14 ac, 28.84% Impervious, Inflow Depth > 1.46" for 2-yr event
Inflow = 3.01 cfs @ 12.13 hrs, Volume= 0.260 af
Outflow = 3.01 cfs @ 12.13 hrs, Volume= 0.260 af, Atten= 0%, Lag= 0.0 min
Primary = 3.01 cfs @ 12.13 hrs, Volume= 0.260 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 278.07' @ 12.15 hrs
Flood Elev= 281.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	277.21'	**18.0" Round Culvert** L= 22.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 277.21' / 276.77' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.78 cfs @ 12.13 hrs HW=278.05' TW=277.59' (Dynamic Tailwater)
1=Culvert (Outlet Controls 2.78 cfs @ 3.91 fps)

Summary for Pond CB201: CB#201

Inflow Area = 0.69 ac, 40.43% Impervious, Inflow Depth > 1.71" for 2-yr event
Inflow = 1.24 cfs @ 12.09 hrs, Volume= 0.098 af
Outflow = 1.24 cfs @ 12.09 hrs, Volume= 0.098 af, Atten= 0%, Lag= 0.0 min
Primary = 1.24 cfs @ 12.09 hrs, Volume= 0.098 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 292.49' @ 12.09 hrs
Flood Elev= 300.43'

Device	Routing	Invert	Outlet Devices
#1	Primary	291.88'	**15.0" Round Culvert** L= 82.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 291.88' / 291.45' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.21 cfs @ 12.09 hrs HW=292.48' TW=291.34' (Dynamic Tailwater)
1=Culvert (Barrel Controls 1.21 cfs @ 3.02 fps)

Summary for Pond CB3: CB#3

Inflow Area = 1.67 ac, 66.11% Impervious, Inflow Depth > 1.80" for 2-yr event
Inflow = 3.10 cfs @ 12.09 hrs, Volume= 0.252 af
Outflow = 3.10 cfs @ 12.09 hrs, Volume= 0.252 af, Atten= 0%, Lag= 0.0 min
Primary = 3.10 cfs @ 12.09 hrs, Volume= 0.252 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 293.05' @ 12.10 hrs
Flood Elev= 296.31'

Device	Routing	Invert	Outlet Devices
#1	Primary	292.09'	**15.0" Round Culvert** L= 80.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.09' / 291.29' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.89 cfs @ 12.09 hrs HW=293.03' TW=292.22' (Dynamic Tailwater)
1=Culvert (Outlet Controls 2.89 cfs @ 4.05 fps)

Summary for Pond CB30: CB#30

Inflow Area = 0.32 ac, 91.05% Impervious, Inflow Depth > 2.48" for 2-yr event
Inflow = 0.82 cfs @ 12.09 hrs, Volume= 0.067 af
Outflow = 0.82 cfs @ 12.09 hrs, Volume= 0.067 af, Atten= 0%, Lag= 0.0 min
Primary = 0.82 cfs @ 12.09 hrs, Volume= 0.067 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 293.09' @ 12.14 hrs
Flood Elev= 296.31'

Device	Routing	Invert	Outlet Devices
#1	Primary	292.30'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.30' / 292.19' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=293.01' TW=293.03' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB4: CB#4

Inflow Area = 0.82 ac, 72.75% Impervious, Inflow Depth > 1.98" for 2-yr event
Inflow = 1.68 cfs @ 12.09 hrs, Volume= 0.136 af
Outflow = 1.68 cfs @ 12.09 hrs, Volume= 0.136 af, Atten= 0%, Lag= 0.0 min
Primary = 1.68 cfs @ 12.09 hrs, Volume= 0.136 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 294.87' @ 12.09 hrs
Flood Elev= 298.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.24'	**15.0" Round Culvert** L= 80.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.24' / 292.58' S= 0.0205 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.64 cfs @ 12.09 hrs HW=294.86' TW=293.03' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.64 cfs @ 2.68 fps)

Summary for Pond CB5: CB#5

Inflow Area = 0.53 ac, 77.00% Impervious, Inflow Depth > 2.10" for 2-yr event
Inflow = 1.14 cfs @ 12.09 hrs, Volume= 0.092 af
Outflow = 1.14 cfs @ 12.09 hrs, Volume= 0.092 af, Atten= 0%, Lag= 0.0 min
Primary = 1.14 cfs @ 12.09 hrs, Volume= 0.092 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.14' @ 12.10 hrs
Flood Elev= 298.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.56'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.56' / 294.34' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.03 cfs @ 12.09 hrs HW=295.13' TW=294.86' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.03 cfs @ 2.78 fps)

Summary for Pond CB80: CB#80

Inflow Area = 0.64 ac, 56.11% Impervious, Inflow Depth > 1.93" for 2-yr event
Inflow = 1.28 cfs @ 12.09 hrs, Volume= 0.102 af
Outflow = 1.28 cfs @ 12.09 hrs, Volume= 0.102 af, Atten= 0%, Lag= 0.0 min
Primary = 1.28 cfs @ 12.09 hrs, Volume= 0.102 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 311.76' @ 12.67 hrs
Flood Elev= 314.01'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.06'	**15.0" Round Culvert** L= 15.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.06' / 309.98' S= 0.0053 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=311.07' TW=311.14' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB800: CB#800

Inflow Area = 0.27 ac, 72.99% Impervious, Inflow Depth > 2.08" for 2-yr event
Inflow = 0.57 cfs @ 12.09 hrs, Volume= 0.046 af
Outflow = 0.57 cfs @ 12.09 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min
Primary = 0.57 cfs @ 12.09 hrs, Volume= 0.046 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 311.76' @ 12.72 hrs
Flood Elev= 314.01'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.27'	**15.0" Round Culvert** L= 22.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.27' / 310.16' S= 0.0048 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=310.95' TW=311.05' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB9: CB#9

Inflow Area = 0.90 ac, 54.67% Impervious, Inflow Depth > 1.86" for 2-yr event
Inflow = 1.76 cfs @ 12.09 hrs, Volume= 0.140 af
Outflow = 1.76 cfs @ 12.09 hrs, Volume= 0.140 af, Atten= 0%, Lag= 0.0 min
Primary = 1.76 cfs @ 12.09 hrs, Volume= 0.140 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 314.69' @ 12.09 hrs
Flood Elev= 317.43'

Device	Routing	Invert	Outlet Devices
#1	Primary	314.04'	**15.0" Round Culvert** L= 203.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 314.04' / 310.50' S= 0.0174 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.72 cfs @ 12.09 hrs HW=314.68' TW=311.13' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.72 cfs @ 2.72 fps)

Summary for Pond CB90: CB#90

Inflow Area = 0.31 ac, 72.11% Impervious, Inflow Depth > 1.97" for 2-yr event
Inflow = 0.64 cfs @ 12.09 hrs, Volume= 0.052 af
Outflow = 0.64 cfs @ 12.09 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.0 min
Primary = 0.64 cfs @ 12.09 hrs, Volume= 0.052 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 315.11' @ 12.09 hrs
Flood Elev= 317.72'

Device	Routing	Invert	Outlet Devices
#1	Primary	314.74'	**15.0" Round Culvert** L= 29.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 314.74' / 314.14' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.60 cfs @ 12.09 hrs HW=315.11' TW=314.68' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.60 cfs @ 2.97 fps)

Summary for Pond DMH111: DMH#111

Inflow Area = 1.47 ac, 47.09% Impervious, Inflow Depth > 1.77" for 2-yr event
Inflow = 2.74 cfs @ 12.09 hrs, Volume= 0.216 af
Outflow = 2.74 cfs @ 12.09 hrs, Volume= 0.216 af, Atten= 0%, Lag= 0.0 min
Primary = 2.74 cfs @ 12.09 hrs, Volume= 0.216 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 311.76' @ 12.63 hrs
Flood Elev= 314.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	309.79'	**24.0" Round Culvert** L= 40.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 309.79' / 309.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=311.06' TW=311.14' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond DMH17: DMH#17

Inflow Area = 3.19 ac, 41.78% Impervious, Inflow Depth > 1.64" for 2-yr event
Inflow = 5.11 cfs @ 12.11 hrs, Volume= 0.437 af
Outflow = 5.11 cfs @ 12.11 hrs, Volume= 0.437 af, Atten= 0%, Lag= 0.0 min
Primary = 5.11 cfs @ 12.11 hrs, Volume= 0.437 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 275.87' @ 12.11 hrs
Flood Elev= 279.48'

Device	Routing	Invert	Outlet Devices
#1	Primary	274.89'	**24.0" Round Culvert** L= 279.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 274.89' / 272.09' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=5.02 cfs @ 12.11 hrs HW=275.86' TW=273.21' (Dynamic Tailwater)
1=Culvert (Inlet Controls 5.02 cfs @ 3.35 fps)

Summary for Pond DMH18: DMH#18

Inflow Area = 2.45 ac, 33.78% Impervious, Inflow Depth > 1.53" for 2-yr event
Inflow = 3.64 cfs @ 12.12 hrs, Volume= 0.313 af
Outflow = 3.64 cfs @ 12.12 hrs, Volume= 0.313 af, Atten= 0%, Lag= 0.0 min
Primary = 3.64 cfs @ 12.12 hrs, Volume= 0.313 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 276.97' @ 12.12 hrs
Flood Elev= 281.88'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.06'	**18.0" Round Culvert** L= 71.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 276.06' / 274.99' S= 0.0149 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.54 cfs @ 12.12 hrs HW=276.95' TW=275.85' (Dynamic Tailwater)
1=Culvert (Inlet Controls 3.54 cfs @ 3.22 fps)

Summary for Pond DMH2: DMH#2

Inflow Area = 1.67 ac, 66.11% Impervious, Inflow Depth > 1.80" for 2-yr event
Inflow = 3.10 cfs @ 12.09 hrs, Volume= 0.252 af
Outflow = 3.10 cfs @ 12.09 hrs, Volume= 0.252 af, Atten= 0%, Lag= 0.0 min
Primary = 3.10 cfs @ 12.09 hrs, Volume= 0.252 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 292.23' @ 12.09 hrs
Flood Elev= 297.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	291.19'	**18.0" Round Culvert** L= 50.2' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 291.19' / 291.04' S= 0.0030 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.02 cfs @ 12.09 hrs HW=292.22' TW=291.31' (Dynamic Tailwater)
1=Culvert (Barrel Controls 3.02 cfs @ 3.30 fps)

Summary for Pond DMH8: DMH#8

Inflow Area = 1.54 ac, 55.26% Impervious, Inflow Depth > 1.89" for 2-yr event
Inflow = 3.04 cfs @ 12.09 hrs, Volume= 0.243 af
Outflow = 3.04 cfs @ 12.09 hrs, Volume= 0.243 af, Atten= 0%, Lag= 0.0 min
Primary = 3.04 cfs @ 12.09 hrs, Volume= 0.243 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 311.76' @ 12.62 hrs
Flood Elev= 314.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	309.88'	**18.0" Round Culvert** L= 13.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 309.88' / 309.81' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=311.13' TW=311.15' (Dynamic Tailwater)
↑—**1=Culvert** (Controls 0.00 cfs)

Summary for Link A: Western Shadowbrook Drive Treatment Area

Inflow Area = 5.76 ac, 33.42% Impervious, Inflow Depth > 1.20" for 2-yr event
Inflow = 3.42 cfs @ 12.10 hrs, Volume= 0.576 af
Primary = 3.42 cfs @ 12.10 hrs, Volume= 0.576 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link B: pond at beginning of neighborhood

Inflow Area = 5.28 ac, 37.67% Impervious, Inflow Depth > 1.40" for 2-yr event
Inflow = 2.28 cfs @ 12.10 hrs, Volume= 0.615 af
Primary = 2.28 cfs @ 12.10 hrs, Volume= 0.615 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link C: Wetlands

Inflow Area = 9.23 ac, 21.04% Impervious, Inflow Depth > 1.05" for 2-yr event
Inflow = 3.83 cfs @ 12.42 hrs, Volume= 0.804 af
Primary = 3.83 cfs @ 12.42 hrs, Volume= 0.804 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Flow to Tammy Court Runoff Area=57,559 sf 17.28% Impervious Runoff Depth>2.73"
Flow Length=263' Slope=0.6600 '/' Tc=6.0 min AMC Adjusted CN=WQ Runoff=3.70 cfs 0.300 af

Subcatchment2S: Shadowbrook Dr CB1 Runoff Area=7,546 sf 57.32% Impervious Runoff Depth>2.73"
Flow Length=300' Slope=0.0200 '/' Tc=6.0 min AMC Adjusted CN=WQ Runoff=0.49 cfs 0.039 af

Subcatchment3S: Shadowbrook Dr CB2 Runoff Area=24,663 sf 8.93% Impervious Runoff Depth>2.73"
Flow Length=344' Tc=8.6 min AMC Adjusted CN=WQ Runoff=1.47 cfs 0.129 af

Subcatchment4S: Flow to Shadowbrook Runoff Area=11,312 sf 38.41% Impervious Runoff Depth>2.73"
Tc=6.0 min AMC Adjusted CN=WQ Runoff=0.73 cfs 0.059 af

Subcatchment5S: Canterberry Court Flow Runoff Area=36,412 sf 15.94% Impervious Runoff Depth>2.73"
Flow Length=187' Tc=6.0 min AMC Adjusted CN=WQ Runoff=2.34 cfs 0.190 af

Subcatchment6S: Lower Shadowbrook Dr Runoff Area=72,715 sf 12.69% Impervious Runoff Depth>2.73"
Flow Length=137' Tc=6.0 min AMC Adjusted CN=WQ Runoff=4.67 cfs 0.379 af

Subcatchment7S: Rear Overland Flow to Runoff Area=85,028 sf 6.43% Impervious Runoff Depth>2.72"
Flow Length=183' Tc=11.5 min AMC Adjusted CN=WQ Runoff=4.66 cfs 0.443 af

Subcatchment10S: Roadway Flow Runoff Area=13,692 sf 72.11% Impervious Runoff Depth>2.73"
Flow Length=307' Slope=0.0150 '/' Tc=6.0 min AMC Adjusted CN=WQ Runoff=0.88 cfs 0.071 af

Subcatchment11S: Roadway Flow Runoff Area=25,722 sf 45.39% Impervious Runoff Depth>2.73"
Flow Length=279' Tc=6.0 min AMC Adjusted CN=WQ Runoff=1.65 cfs 0.134 af

Subcatchment20S: Roadway Flow Runoff Area=2,774 sf 40.41% Impervious Runoff Depth>2.73"
Flow Length=65' Tc=6.0 min AMC Adjusted CN=WQ Runoff=0.18 cfs 0.014 af

Subcatchment21S: Roadway Flow Runoff Area=9,904 sf 37.65% Impervious Runoff Depth>2.73"
Flow Length=203' Tc=6.0 min AMC Adjusted CN=WQ Runoff=0.64 cfs 0.052 af

Subcatchment22S: Overland Flow to Pond Runoff Area=17,710 sf 12.85% Impervious Runoff Depth>2.73"
Flow Length=47' Slope=0.2127 '/' Tc=6.0 min AMC Adjusted CN=WQ Runoff=1.14 cfs 0.092 af

Subcatchment30S: Roadway Flow Runoff Area=14,714 sf 52.43% Impervious Runoff Depth>2.73"
Flow Length=276' Tc=6.0 min AMC Adjusted CN=WQ Runoff=0.95 cfs 0.077 af

Subcatchment31S: Roadway Flow Runoff Area=17,194 sf 38.30% Impervious Runoff Depth>2.73"
Flow Length=230' Tc=6.0 min AMC Adjusted CN=WQ Runoff=1.11 cfs 0.090 af

Subcatchment32S: Roadway Flow Runoff Area=21,651 sf 47.90% Impervious Runoff Depth>2.73"
Flow Length=223' Tc=6.0 min AMC Adjusted CN=WQ Runoff=1.39 cfs 0.113 af

Subcatchment33S: Roadway Flow Runoff Area=10,356 sf 52.43% Impervious Runoff Depth>2.73"
Flow Length=257' Tc=6.0 min AMC Adjusted CN=WQ Runoff=0.67 cfs 0.054 af

Subcatchment40S: Roadway Flow Runoff Area=11,686 sf 72.99% Impervious Runoff Depth>2.73"
Flow Length=263' Slope=0.0150 '/' Tc=6.0 min AMC Adjusted CN=WQ Runoff=0.75 cfs 0.061 af

Subcatchment41S: Roadway Flow Runoff Area=16,070 sf 43.83% Impervious Runoff Depth>2.73"
Flow Length=268' Tc=6.5 min AMC Adjusted CN=WQ Runoff=1.02 cfs 0.084 af

Subcatchment42S: Flow to CB#200 Runoff Area=29,920 sf 40.43% Impervious Runoff Depth>2.73"
Flow Length=385' Tc=6.0 min AMC Adjusted CN=WQ Runoff=1.92 cfs 0.156 af

Subcatchment50S: Roadway Flow Runoff Area=12,898 sf 58.95% Impervious Runoff Depth>2.73"
Flow Length=300' Tc=6.0 min AMC Adjusted CN=WQ Runoff=0.83 cfs 0.067 af

Subcatchment51S: Roadway Flow Runoff Area=12,915 sf 65.19% Impervious Runoff Depth>2.73"
Flow Length=163' Tc=6.0 min AMC Adjusted CN=WQ Runoff=0.83 cfs 0.067 af

Subcatchment60S: Roadway and Building Runoff Area=23,012 sf 40.57% Impervious Runoff Depth>2.73"
Flow Length=220' Tc=6.0 min AMC Adjusted CN=WQ Runoff=1.48 cfs 0.120 af

Subcatchment61S: Roadway Flow Runoff Area=7,564 sf 83.43% Impervious Runoff Depth>2.73"
Flow Length=152' Slope=0.0200 '/' Tc=6.0 min AMC Adjusted CN=WQ Runoff=0.49 cfs 0.039 af

Subcatchment62S: Bioretention Pond Area Runoff Area=6,453 sf 0.00% Impervious Runoff Depth>2.73"
Tc=6.0 min AMC Adjusted CN=98 Runoff=0.41 cfs 0.034 af

Subcatchment70S: Overland Flow to Runoff Area=128,858 sf 1.40% Impervious Runoff Depth>2.72"
Flow Length=745' Tc=14.6 min AMC Adjusted CN=WQ Runoff=6.50 cfs 0.671 af

Subcatchment71S: Roadway Flow Runoff Area=26,495 sf 66.16% Impervious Runoff Depth>2.73"
Flow Length=300' Tc=6.0 min AMC Adjusted CN=WQ Runoff=1.70 cfs 0.138 af

Subcatchment72S: House Flow to Pond Runoff Area=49,031 sf 39.15% Impervious Runoff Depth>2.73"
Flow Length=127' Tc=6.0 min AMC Adjusted CN=WQ Runoff=3.15 cfs 0.256 af

Subcatchment73S: Roadway Flow Runoff Area=5,932 sf 76.82% Impervious Runoff Depth>2.73"
Flow Length=200' Slope=0.0200 '/' Tc=6.0 min AMC Adjusted CN=WQ Runoff=0.38 cfs 0.031 af

Subcatchment74S: Area in Circle to Runoff Area=17,656 sf 37.64% Impervious Runoff Depth>2.73"
Flow Length=40' Slope=0.1000 '/' Tc=6.0 min AMC Adjusted CN=WQ Runoff=1.13 cfs 0.092 af

Subcatchment75S: Roadway Flow Runoff Area=13,639 sf 67.50% Impervious Runoff Depth>2.73"
Flow Length=196' Slope=0.0200 '/' Tc=6.0 min AMC Adjusted CN=WQ Runoff=0.88 cfs 0.071 af

Subcatchment76S: Roadway Flow Runoff Area=93,020 sf 28.84% Impervious Runoff Depth>2.73"
Flow Length=468' Tc=9.0 min AMC Adjusted CN=WQ Runoff=5.47 cfs 0.485 af

Subcatchment100S: Unit 1 Runoff Area=920 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.06 cfs 0.005 af

Subcatchment101S: Units 2 & 3 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af

Subcatchment102S: Units 4 & 5 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af

Subcatchment103S: Units 6 & 7 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af

Subcatchment104S: Units 8 & 9 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af

Subcatchment105S: Units 11 & 10 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af

Subcatchment106S: Units 13 & 12 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af

Subcatchment107S: Units 15 & 14 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af

Subcatchment108S: Units 17 & 16 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af

Subcatchment109S: Unit 18 Runoff Area=920 sf 100.00% Impervious Runoff Depth>2.73"
Tc=6.0 min CN=98 Runoff=0.06 cfs 0.005 af

Reach 1R: Tammy Court Inflow=3.70 cfs 0.300 af
Outflow=3.70 cfs 0.300 af

Reach 2R: Ex CB1 Inflow=3.63 cfs 0.865 af
Outflow=3.63 cfs 0.865 af

Reach 3R: Ex CB 2 Inflow=1.47 cfs 0.129 af
Outflow=1.47 cfs 0.129 af

Reach 4R: Upper Shadowbrook Drive Drainage Inflow=3.30 cfs 0.629 af
Outflow=3.30 cfs 0.629 af

Reach 5R: Canterberry Ct Drainage Inflow=2.34 cfs 0.190 af
Outflow=2.34 cfs 0.190 af

Reach 6R: Lower Shadowbrook Dr CB Inflow=4.67 cfs 0.379 af
Outflow=4.67 cfs 0.379 af

Pond 1P: Bioretention Pond #1 Peak Elev=292.82' Storage=8,168 cf Inflow=7.03 cfs 0.570 af
Primary=2.98 cfs 0.570 af Secondary=0.00 cfs 0.000 af Outflow=2.98 cfs 0.570 af

Pond 2P: Pocket Pond #1 Peak Elev=312.30' Storage=18,307 cf Inflow=9.55 cfs 0.776 af
Outflow=3.17 cfs 0.760 af

Pond 3P: Pocket Pond #2 Peak Elev=274.83' Storage=17,656 cf Inflow=13.87 cfs 1.397 af
Primary=9.46 cfs 1.380 af Secondary=0.00 cfs 0.000 af Outflow=9.46 cfs 1.380 af

Pond 30P: Infiltration Pond #1 Peak Elev=281.06' Storage=2,049 cf Inflow=1.13 cfs 0.092 af
Outflow=0.06 cfs 0.071 af

Pond 31P: Infiltration Pond #2 Peak Elev=275.49' Storage=5,574 cf Inflow=3.15 cfs 0.256 af
Discarded=0.10 cfs 0.135 af Primary=0.14 cfs 0.055 af Outflow=0.25 cfs 0.190 af

Pond 100: AD#100 Peak Elev=295.94' Inflow=0.06 cfs 0.005 af
8.0" Round Culvert n=0.013 L=58.1' S=0.0251 '/' Outflow=0.06 cfs 0.005 af

Pond 101: AD#101 Peak Elev=294.48' Inflow=0.18 cfs 0.014 af
8.0" Round Culvert n=0.013 L=37.0' S=0.0500 '/' Outflow=0.18 cfs 0.014 af

Pond 102: AD#102 Peak Elev=293.44' Inflow=0.24 cfs 0.019 af
8.0" Round Culvert n=0.013 L=27.4' S=0.0201 '/' Outflow=0.24 cfs 0.019 af

Pond 103: AD#103 Peak Elev=294.42' Inflow=0.12 cfs 0.010 af
8.0" Round Culvert n=0.013 L=59.0' S=0.0200 '/' Outflow=0.12 cfs 0.010 af

Pond 104: AD#104 Peak Elev=295.76' Inflow=0.65 cfs 0.053 af
8.0" Round Culvert n=0.013 L=16.6' S=0.0367 '/' Outflow=0.65 cfs 0.053 af

Pond 105: AD#105 Peak Elev=297.96' Inflow=0.53 cfs 0.043 af
8.0" Round Culvert n=0.013 L=53.8' S=0.0400 '/' Outflow=0.53 cfs 0.043 af

Pond 106: AD#106 Peak Elev=300.24' Inflow=0.41 cfs 0.034 af
8.0" Round Culvert n=0.013 L=55.9' S=0.0401 '/' Outflow=0.41 cfs 0.034 af

Pond 107: AD#107 Peak Elev=303.18' Inflow=0.30 cfs 0.024 af
8.0" Round Culvert n=0.013 L=64.0' S=0.0450 '/' Outflow=0.30 cfs 0.024 af

Pond 108: AD#108 Peak Elev=306.08' Inflow=0.18 cfs 0.014 af
8.0" Round Culvert n=0.013 L=64.5' S=0.0448 '/' Outflow=0.18 cfs 0.014 af

Pond 109: AD#109 Peak Elev=308.82' Inflow=0.06 cfs 0.005 af
8.0" Round Culvert n=0.013 L=49.9' S=0.0549 '/' Outflow=0.06 cfs 0.005 af

Pond CB11: CB#11 Peak Elev=312.32' Inflow=4.11 cfs 0.333 af
18.0" Round Culvert n=0.013 L=30.3' S=0.0050 '/' Outflow=4.11 cfs 0.333 af

Pond CB110: CB#110 Peak Elev=312.32' Inflow=0.95 cfs 0.077 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0050 '/' Outflow=0.95 cfs 0.077 af

Pond CB12: CB#12 Peak Elev=313.71' Inflow=2.06 cfs 0.167 af
15.0" Round Culvert n=0.013 L=106.0' S=0.0263 '/' Outflow=2.06 cfs 0.167 af

Pond CB120: CB#120 Peak Elev=313.98' Inflow=1.39 cfs 0.113 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0100 '/' Outflow=1.39 cfs 0.113 af

Pond CB14: CB#14 Peak Elev=308.78' Inflow=3.39 cfs 0.811 af
15.0" Round Culvert n=0.013 L=37.9' S=0.0150 '/' Outflow=3.39 cfs 0.811 af

Pond CB15: CB#15 Peak Elev=308.09' Inflow=3.45 cfs 0.826 af
15.0" Round Culvert n=0.013 L=120.0' S=0.0539 '/' Outflow=3.45 cfs 0.826 af

Pond CB170: CB#170 Peak Elev=278.61' Inflow=2.08 cfs 0.169 af
15.0" Round Culvert n=0.013 L=36.7' S=0.0199 '/' Outflow=2.08 cfs 0.169 af

Pond CB171: CB#171 Peak Elev=278.94' Inflow=1.70 cfs 0.138 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0100 '/' Outflow=1.70 cfs 0.138 af

Pond CB19: CB #19 Peak Elev=278.03' Inflow=6.29 cfs 0.556 af
18.0" Round Culvert n=0.013 L=33.8' S=0.0151 '/' Outflow=6.29 cfs 0.556 af

Pond CB20: CB #20 Peak Elev=278.51' Inflow=5.47 cfs 0.485 af
18.0" Round Culvert n=0.013 L=22.0' S=0.0200 '/' Outflow=5.47 cfs 0.485 af

Pond CB201: CB#201 Peak Elev=292.86' Inflow=1.92 cfs 0.156 af
15.0" Round Culvert n=0.013 L=82.0' S=0.0052 '/' Outflow=1.92 cfs 0.156 af

Pond CB3: CB#3 Peak Elev=293.39' Inflow=4.69 cfs 0.381 af
15.0" Round Culvert n=0.013 L=80.0' S=0.0100 '/' Outflow=4.69 cfs 0.381 af

Pond CB30: CB#30 Peak Elev=293.41' Inflow=0.90 cfs 0.073 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0050 '/' Outflow=0.90 cfs 0.073 af

Pond CB4: CB#4 Peak Elev=295.00' Inflow=2.31 cfs 0.187 af
15.0" Round Culvert n=0.013 L=80.9' S=0.0205 '/' Outflow=2.31 cfs 0.187 af

Pond CB5: CB#5 Peak Elev=295.26' Inflow=1.48 cfs 0.120 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0100 '/' Outflow=1.48 cfs 0.120 af

Pond CB80: CB#80 Peak Elev=312.33' Inflow=1.77 cfs 0.145 af
15.0" Round Culvert n=0.013 L=15.1' S=0.0053 '/' Outflow=1.77 cfs 0.145 af

Pond CB800: CB#800 Peak Elev=312.33' Inflow=0.75 cfs 0.061 af
15.0" Round Culvert n=0.013 L=22.7' S=0.0048 '/' Outflow=0.75 cfs 0.061 af

Pond CB9: CB#9 Peak Elev=314.84' Inflow=2.53 cfs 0.206 af
15.0" Round Culvert n=0.013 L=203.6' S=0.0174 '/' Outflow=2.53 cfs 0.206 af

Pond CB90: CB#90 Peak Elev=315.21' Inflow=0.88 cfs 0.071 af
15.0" Round Culvert n=0.013 L=29.8' S=0.0201 '/' Outflow=0.88 cfs 0.071 af

Pond DMH111: DMH#111 Peak Elev=312.30' Inflow=4.11 cfs 0.333 af
24.0" Round Culvert n=0.013 L=40.3' S=0.0050 '/' Outflow=4.11 cfs 0.333 af

Pond DMH17: DMH#17 Peak Elev=276.23' Inflow=8.31 cfs 0.725 af
24.0" Round Culvert n=0.013 L=279.8' S=0.0100 '/' Outflow=8.31 cfs 0.725 af

Pond DMH18: DMH#18 Peak Elev=277.36' Inflow=6.29 cfs 0.556 af
18.0" Round Culvert n=0.013 L=71.6' S=0.0149 '/' Outflow=6.29 cfs 0.556 af

Pond DMH2: DMH#2 Peak Elev=292.86' Inflow=4.69 cfs 0.381 af
18.0" Round Culvert n=0.013 L=50.2' S=0.0030 '/' Outflow=4.69 cfs 0.381 af

Pond DMH8: DMH#8 Peak Elev=312.32' Inflow=4.30 cfs 0.350 af
18.0" Round Culvert n=0.013 L=13.4' S=0.0052 '/' Outflow=4.30 cfs 0.350 af

Link A: Western Shadowbrook Drive Treatment Area Inflow=10.37 cfs 1.309 af
Primary=10.37 cfs 1.309 af

Link B: pond at beginning of neighborhood Inflow=6.65 cfs 1.184 af
Primary=6.65 cfs 1.184 af

Link C: Wetlands Inflow=13.25 cfs 1.879 af
Primary=13.25 cfs 1.879 af

Total Runoff Area = 20.68 ac Runoff Volume = 4.697 af Average Runoff Depth = 2.73"
70.94% Pervious = 14.67 ac 29.06% Impervious = 6.01 ac

Summary for Subcatchment 1S: Flow to Tammy Court

Runoff = 3.70 cfs @ 12.09 hrs, Volume= 0.300 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
3,365	98	98	Roofs, HSG D
6,582	98	98	Roofs, HSG A
34,775	80	98	>75% Grass cover, Good, HSG D
8,430	39	98	>75% Grass cover, Good, HSG A
4,407	77	98	Woods, Good, HSG D
57,559			Weighted Average
47,612			82.72% Pervious Area
9,947			17.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	50	0.6600	0.57		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.6	213	0.6600	5.69		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.1	263	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2S: Shadowbrook Dr CB1

Runoff = 0.49 cfs @ 12.09 hrs, Volume= 0.039 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
4,085	98	98	Paved parking, HSG A
240	98	98	Roofs, HSG D
1,432	80	98	>75% Grass cover, Good, HSG D
1,789	39	98	>75% Grass cover, Good, HSG A
7,546			Weighted Average
3,221			42.68% Pervious Area
4,325			57.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.5	250	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 3S: Shadowbrook Dr CB2

Runoff = 1.47 cfs @ 12.12 hrs, Volume= 0.129 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
257	98	98	Roofs, HSG A
6,196	80	98	>75% Grass cover, Good, HSG D
5,530	39	98	>75% Grass cover, Good, HSG A
10,329	77	98	Woods, Good, HSG D
405	30	98	Woods, Good, HSG A
1,946	98	98	Paved parking, HSG A
24,663			Weighted Average
22,460			91.07% Pervious Area
2,203			8.93% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
1.9	226	0.1500	1.94		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.3	48	0.1300	2.52		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.1	20	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
8.6	344	Total			

Summary for Subcatchment 4S: Flow to Shadowbrook Dr CBs

Runoff = 0.73 cfs @ 12.09 hrs, Volume= 0.059 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
2,537	80	98	>75% Grass cover, Good, HSG D
400	39	98	>75% Grass cover, Good, HSG A
0	74	98	>75% Grass cover, Good, HSG C
4,345	98	98	Paved parking, HSG A
4,030	77	98	Woods, Good, HSG D
11,312			Weighted Average
6,967			61.59% Pervious Area
4,345			38.41% Impervious Area

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

Summary for Subcatchment 5S: Canterberry Court Flow

Runoff = 2.34 cfs @ 12.09 hrs, Volume= 0.190 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
1,564	98	98	Roofs, HSG A
30,607	39	98	>75% Grass cover, Good, HSG A
4,241	98	98	Paved parking, HSG A
36,412			Weighted Average
30,607			84.06% Pervious Area
5,805			15.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.7	137	0.2000	3.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.3	187	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 6S: Lower Shadowbrook Dr Flow

Runoff = 4.67 cfs @ 12.09 hrs, Volume= 0.379 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
1,440	98	98	Roofs, HSG A
3,236	30	98	Woods, Good, HSG A
60,250	39	98	>75% Grass cover, Good, HSG A
7,789	98	98	Paved parking, HSG A
72,715			Weighted Average
63,486			87.31% Pervious Area
9,229			12.69% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.1	38	0.4500	4.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	49	0.3600	3.00		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
3.0	137	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 7S: Rear Overland Flow to Wetland

Runoff = 4.66 cfs @ 12.15 hrs, Volume= 0.443 af, Depth> 2.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
2,935	98	98	Roofs, HSG D
2,417	98	98	Roofs, HSG A
118	98	98	Roofs, HSG C
10,710	80	98	>75% Grass cover, Good, HSG D
8,039	39	98	>75% Grass cover, Good, HSG A
4,292	74	98	>75% Grass cover, Good, HSG C
19,271	77	98	Woods, Good, HSG D
26,053	70	98	Woods, Good, HSG C
11,193	55	98	Woods, Good, HSG B
85,028			Weighted Average
79,558			93.57% Pervious Area
5,470			6.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.8	50	0.0400	0.08		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
1.7	133	0.0650	1.27		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
11.5	183	Total			

Summary for Subcatchment 10S: Roadway Flow

Runoff = 0.88 cfs @ 12.09 hrs, Volume= 0.071 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
3,052	98	98	Roofs, HSG A
12	80	98	>75% Grass cover, Good, HSG D
3,807	39	98	>75% Grass cover, Good, HSG A
506	98	98	Paved parking, HSG D
6,315	98	98	Roofs, HSG A
13,692			Weighted Average
3,819			27.89% Pervious Area
9,873			72.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0150	1.01		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.7	257	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.5	307	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11S: Roadway Flow

Runoff = 1.65 cfs @ 12.09 hrs, Volume= 0.134 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
6,240	98	98	Roofs, HSG D
11,906	80	98	>75% Grass cover, Good, HSG D
2,142	39	98	>75% Grass cover, Good, HSG A
1,643	98	98	Roofs, HSG D
3,791	98	98	Roofs, HSG A
25,722			Weighted Average
14,048			54.61% Pervious Area
11,674			45.39% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	24	0.3300	0.37		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.3	26	0.0600	0.19		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.8	46	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.2	183	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
5.4	279	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 20S: Roadway Flow

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 0.014 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
396	98	98	Roofs, HSG D
993	80	98	>75% Grass cover, Good, HSG D
660	39	98	>75% Grass cover, Good, HSG A
725	98	98	Paved parking, HSG A
2,774			Weighted Average
1,653			59.59% Pervious Area
1,121			40.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	50	0.0500	0.20		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.1	15	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.2	65	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 21S: Roadway Flow

Runoff = 0.64 cfs @ 12.09 hrs, Volume= 0.052 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
1,651	98	98	Roofs, HSG D
365	98	98	Roofs, HSG A
3,879	80	98	>75% Grass cover, Good, HSG D
2,296	39	98	>75% Grass cover, Good, HSG A
4	98	98	Paved parking, HSG D
1,709	98	98	Paved parking, HSG A
9,904			Weighted Average
6,175			62.35% Pervious Area
3,729			37.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	50	0.1200	0.29		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.9	98	0.0700	1.85		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	55	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.1	203	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 22S: Overland Flow to Pond

Runoff = 1.14 cfs @ 12.09 hrs, Volume= 0.092 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
1,512	98	98	Roofs, HSG D
645	98	98	Roofs, HSG A
8,034	80	98	>75% Grass cover, Good, HSG D
7,400	39	98	>75% Grass cover, Good, HSG A
119	98	98	Paved parking, HSG A
17,710			Weighted Average
15,434			87.15% Pervious Area
2,276			12.85% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.2	47	0.2127	0.36		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.2	47	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 30S: Roadway Flow

Runoff = 0.95 cfs @ 12.09 hrs, Volume= 0.077 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
4,540	98	98	Paved parking, HSG D
6,935	80	98	>75% Grass cover, Good, HSG D
65	39	98	>75% Grass cover, Good, HSG A
1,636	98	98	Paved parking, HSG D
1,538	98	98	Paved parking, HSG A
14,714			Weighted Average
7,000			47.57% Pervious Area
7,714			52.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
1.1	64	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.9	162	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.6	276	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 31S: Roadway Flow

Runoff = 1.11 cfs @ 12.09 hrs, Volume= 0.090 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
2,626	98	98	Paved parking, HSG D
1,214	98	98	Paved parking, HSG A
6,749	80	98	>75% Grass cover, Good, HSG D
3,860	39	98	>75% Grass cover, Good, HSG A
2,745	98	98	Paved parking, HSG A
17,194			Weighted Average
10,609			61.70% Pervious Area
6,585			38.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.1	50	0.2800	0.40		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.3	60	0.2000	3.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	120	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
3.1	230	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 32S: Roadway Flow

Runoff = 1.39 cfs @ 12.09 hrs, Volume= 0.113 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
5,015	98	98	Roofs, HSG D
8,256	80	98	>75% Grass cover, Good, HSG D
991	39	98	>75% Grass cover, Good, HSG A
1,964	98	98	Paved parking, HSG D
3,391	98	98	Paved parking, HSG A
2,034	77	98	Woods, Good, HSG D
21,651			Weighted Average
11,281			52.10% Pervious Area
10,370			47.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	40	0.2500	0.17		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
0.7	10	0.2000	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.3	63	0.3300	4.02		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.6	110	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
5.6	223	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 33S: Roadway Flow

Runoff = 0.67 cfs @ 12.09 hrs, Volume= 0.054 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
948	98	98	Roofs, HSG D
395	98	98	Roofs, HSG A
1,701	80	98	>75% Grass cover, Good, HSG D
3,225	39	98	>75% Grass cover, Good, HSG A
4,087	98	98	Paved parking, HSG A
10,356			Weighted Average
4,926			47.57% Pervious Area
5,430			52.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.2	37	0.2000	3.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.0	170	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
3.8	257	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 40S: Roadway Flow

Runoff = 0.75 cfs @ 12.09 hrs, Volume= 0.061 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
752	98	98	Roofs, HSG D
1,321	98	98	Roofs, HSG A
391	98	98	Roofs, HSG C
780	80	98	>75% Grass cover, Good, HSG D
2,326	39	98	>75% Grass cover, Good, HSG A
50	74	98	>75% Grass cover, Good, HSG C
1,115	98	98	Paved parking, HSG D
4,921	98	98	Paved parking, HSG A
30	98	98	Paved parking, HSG C
11,686			Weighted Average
3,156			27.01% Pervious Area
8,530			72.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0150	1.01		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.4	213	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	263	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 41S: Roadway Flow

Runoff = 1.02 cfs @ 12.09 hrs, Volume= 0.084 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
2,949	98	98	Roofs, HSG D
157	98	98	Roofs, HSG A
8,262	80	98	>75% Grass cover, Good, HSG D
765	39	98	>75% Grass cover, Good, HSG A
1,393	98	98	Paved parking, HSG D
2,544	98	98	Paved parking, HSG A
16,070			Weighted Average
9,027			56.17% Pervious Area
7,043			43.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	40	0.0250	0.15		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.5	10	0.3300	0.31		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.6	80	0.1000	2.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.9	138	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
6.5	268	Total			

Summary for Subcatchment 42S: Flow to CB#200

Runoff = 1.92 cfs @ 12.09 hrs, Volume= 0.156 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
1,682	39	98	>75% Grass cover, Good, HSG A
10,383	80	98	>75% Grass cover, Good, HSG D
3,530	74	98	>75% Grass cover, Good, HSG C
6,936	98	98	Paved parking, HSG A
2,228	77	98	Woods, Good, HSG D
170	98	98	Roofs, HSG A
90	98	98	Roofs, HSG C
2,670	98	98	Roofs, HSG D
1,237	98	98	Roofs, HSG A
994	98	98	Roofs, HSG C
29,920			Weighted Average
17,823			59.57% Pervious Area
12,097			40.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.2	335	0.0500	4.54		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.9	385	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 50S: Roadway Flow

Runoff = 0.83 cfs @ 12.09 hrs, Volume= 0.067 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
5,295	39	98	>75% Grass cover, Good, HSG A
7,603	98	98	Paved parking, HSG A
12,898			Weighted Average
5,295			41.05% Pervious Area
7,603			58.95% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	50	0.0550	1.71		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.9	250	0.0500	4.54		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.4	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 51S: Roadway Flow

Runoff = 0.83 cfs @ 12.09 hrs, Volume= 0.067 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
3,027	98	98	Roofs, HSG A
4,496	39	98	>75% Grass cover, Good, HSG A
5,392	98	98	Paved parking, HSG A
12,915			Weighted Average
4,496			34.81% Pervious Area
8,419			65.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	50	0.0800	0.25		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.6	76	0.0900	2.10		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.1	37	0.0500	4.54		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.1	163	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 60S: Roadway and Building Flow

Runoff = 1.48 cfs @ 12.09 hrs, Volume= 0.120 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
3,213	98	98	Roofs, HSG A
13,675	39	98	>75% Grass cover, Good, HSG A
6,124	98	98	Paved parking, HSG A
23,012			Weighted Average
13,675			59.43% Pervious Area
9,337			40.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.6	155	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.1	15	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
5.3	220	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 61S: Roadway Flow

Runoff = 0.49 cfs @ 12.09 hrs, Volume= 0.039 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
1,253	39	98	>75% Grass cover, Good, HSG A
6,311	98	98	Paved parking, HSG A
7,564			Weighted Average
1,253			16.57% Pervious Area
6,311			83.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.6	102	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.3	152	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 62S: Bioretention Pond Area

Runoff = 0.41 cfs @ 12.09 hrs, Volume= 0.034 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
6,453	39	98	>75% Grass cover, Good, HSG A
6,453			Weighted Average
6,453			100.00% Pervious Area

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

Summary for Subcatchment 70S: Overland Flow to Detention Pond

Runoff = 6.50 cfs @ 12.19 hrs, Volume= 0.671 af, Depth> 2.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
607	98	98	Roofs, HSG D
1,192	98	98	Roofs, HSG A
24,819	80	98	>75% Grass cover, Good, HSG D
13,185	39	98	>75% Grass cover, Good, HSG A
89,055	77	98	Woods, Good, HSG D
128,858			Weighted Average
127,059			98.60% Pervious Area
1,799			1.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0800	0.11		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
3.6	391	0.1300	1.80		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
3.5	304	0.0430	1.45		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
14.6	745	Total			

Summary for Subcatchment 71S: Roadway Flow

Runoff = 1.70 cfs @ 12.09 hrs, Volume= 0.138 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
2,572	98	98	Roofs, HSG D
3,565	98	98	Roofs, HSG A
3,581	80	98	>75% Grass cover, Good, HSG D
5,385	39	98	>75% Grass cover, Good, HSG A
1,533	98	98	Paved parking, HSG D
9,859	98	98	Paved parking, HSG A
26,495			Weighted Average
8,966			33.84% Pervious Area
17,529			66.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	50	0.0800	0.25		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
1.5	250	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.9	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 72S: House Flow to Pond

Runoff = 3.15 cfs @ 12.09 hrs, Volume= 0.256 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
2,848	98	98	Roofs, HSG D
9,725	98	98	Roofs, HSG A
23,884	39	98	>75% Grass cover, Good, HSG A
4,734	80	98	>75% Grass cover, Good, HSG D
1,216	74	98	>75% Grass cover, Good, HSG C
1,330	98	98	Paved parking, HSG D
5,294	98	98	Paved parking, HSG A
49,031			Weighted Average
29,834			60.85% Pervious Area
19,197			39.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.3	77	0.3100	3.90		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.0	127	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 73S: Roadway Flow

Runoff = 0.38 cfs @ 12.09 hrs, Volume= 0.031 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
1,375	39	98	>75% Grass cover, Good, HSG A
4,557	98	98	Paved parking, HSG A
5,932			Weighted Average
1,375			23.18% Pervious Area
4,557			76.82% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.9	150	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.6	200	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 74S: Area in Circle to Infiltration Pond

Runoff = 1.13 cfs @ 12.09 hrs, Volume= 0.092 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
4,851	98	98	Roofs, HSG A
8,558	39	98	>75% Grass cover, Good, HSG A
1,547	98	98	Roofs, HSG D
248	98	98	Roofs, HSG C
1,588	80	98	>75% Grass cover, Good, HSG D
864	74	98	>75% Grass cover, Good, HSG C
17,656			Weighted Average
11,010			62.36% Pervious Area
6,646			37.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	40	0.1000	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.6	40	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 75S: Roadway Flow

Runoff = 0.88 cfs @ 12.09 hrs, Volume= 0.071 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
295	98	98	Roofs, HSG D
1,380	98	98	Roofs, HSG A
2,209	80	98	>75% Grass cover, Good, HSG D
2,224	39	98	>75% Grass cover, Good, HSG A
4,186	98	98	Paved parking, HSG D
3,345	98	98	Paved parking, HSG A
13,639			Weighted Average
4,433			32.50% Pervious Area
9,206			67.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.8	146	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.5	196	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 76S: Roadway Flow

Runoff = 5.47 cfs @ 12.12 hrs, Volume= 0.485 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Adj	Description
14,560	98	98	Roofs, HSG D
1,133	98	98	Roofs, HSG A
24,384	80	98	>75% Grass cover, Good, HSG D
10,102	39	98	>75% Grass cover, Good, HSG A
31,709	77	98	Woods, Good, HSG D
7,686	98	98	Paved parking, HSG D
3,446	98	98	Paved parking, HSG A
93,020			Weighted Average
66,195			71.16% Pervious Area
26,825			28.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
0.9	130	0.2150	2.32		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
1.0	120	0.0830	2.02		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.8	168	0.0300	3.52		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
9.0	468	Total			

Summary for Subcatchment 100S: Unit 1

Runoff = 0.06 cfs @ 12.09 hrs, Volume= 0.005 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Description
920	98	Roofs, HSG A
920		100.00% Impervious Area

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

Summary for Subcatchment 101S: Units 2 & 3

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 102S: Units 4 & 5

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 103S: Units 6 & 7

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 104S: Units 8 & 9

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 105S: Units 11 & 10

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 106S: Units 13 & 12

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 107S: Units 15 & 14

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 108S: Units 17 & 16

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 109S: Unit 18

Runoff = 0.06 cfs @ 12.09 hrs, Volume= 0.005 af, Depth> 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr-frozen Rainfall=2.96", AMC=4

Area (sf)	CN	Description
920	98	Roofs, HSG A
920		100.00% Impervious Area

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

Summary for Reach 1R: Tammy Court

Inflow Area = 1.32 ac, 17.28% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 3.70 cfs @ 12.09 hrs, Volume= 0.300 af
Outflow = 3.70 cfs @ 12.09 hrs, Volume= 0.300 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 2R: Ex CB1

Inflow Area = 3.88 ac, 46.55% Impervious, Inflow Depth > 2.68" for 2-yr-frozen event
Inflow = 3.63 cfs @ 12.32 hrs, Volume= 0.865 af
Outflow = 3.63 cfs @ 12.32 hrs, Volume= 0.865 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 3R: Ex CB 2

Inflow Area = 0.57 ac, 8.93% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 1.47 cfs @ 12.12 hrs, Volume= 0.129 af
Outflow = 1.47 cfs @ 12.12 hrs, Volume= 0.129 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 4R: Upper Shadowbrook Drive Drainage

Inflow Area = 2.77 ac, 53.61% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 3.30 cfs @ 12.27 hrs, Volume= 0.629 af
Outflow = 3.30 cfs @ 12.27 hrs, Volume= 0.629 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 5R: Canterberry Ct Drainage

Inflow Area = 0.84 ac, 15.94% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 2.34 cfs @ 12.09 hrs, Volume= 0.190 af
Outflow = 2.34 cfs @ 12.09 hrs, Volume= 0.190 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 6R: Lower Shadowbrook Dr CB

Inflow Area = 1.67 ac, 12.69% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 4.67 cfs @ 12.09 hrs, Volume= 0.379 af
Outflow = 4.67 cfs @ 12.09 hrs, Volume= 0.379 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Pond 1P: Bioretention Pond #1

Inflow Area = 2.51 ac, 55.18% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 7.03 cfs @ 12.09 hrs, Volume= 0.570 af
Outflow = 2.98 cfs @ 12.29 hrs, Volume= 0.570 af, Atten= 58%, Lag= 12.1 min
Primary = 2.98 cfs @ 12.29 hrs, Volume= 0.570 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 292.82' @ 12.29 hrs Surf.Area= 3,821 sf Storage= 8,168 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 83.3 min (840.9 - 757.6)

Volume	Invert	Avail.Storage	Storage Description
#1	288.00'	13,264 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
288.00	434	0	0
290.00	1,140	1,574	1,574
291.00	1,598	1,369	2,943
292.00	3,160	2,379	5,322
294.00	4,782	7,942	13,264

Device	Routing	Invert	Outlet Devices
#1	Secondary	293.80'	**4.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64
#2	Device 5	288.00'	**10.000 in/hr Exfiltration over Surface area**
#3	Device 5	292.10'	**15.0" Vert. Orifice/Grate** C= 0.600
#4	Device 5	293.50'	**48.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Primary	285.00'	**12.0" Round Culvert** L= 55.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 285.00' / 283.04' S= 0.0354 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.97 cfs @ 12.29 hrs HW=292.81' TW=0.00' (Dynamic Tailwater)
└─**5=Culvert** (Passes 2.97 cfs of 10.23 cfs potential flow)
  ├─**2=Exfiltration** (Exfiltration Controls 0.88 cfs)
  ├─**3=Orifice/Grate** (Orifice Controls 2.08 cfs @ 2.88 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=288.00' TW=0.00' (Dynamic Tailwater)
└─**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 2P: Pocket Pond #1

Inflow Area = 3.42 ac, 46.71% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 9.55 cfs @ 12.09 hrs, Volume= 0.776 af
Outflow = 3.17 cfs @ 12.37 hrs, Volume= 0.760 af, Atten= 67%, Lag= 17.2 min
Primary = 3.17 cfs @ 12.37 hrs, Volume= 0.760 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Starting Elev= 309.79' Surf.Area= 3,009 sf Storage= 5,826 cf
Peak Elev= 312.30' @ 12.37 hrs Surf.Area= 7,170 sf Storage= 18,307 cf (12,482 cf above start)

Plug-Flow detention time= 240.3 min calculated for 0.626 af (81% of inflow)
Center-of-Mass det. time= 104.9 min (862.6 - 757.7)

Volume	Invert	Avail.Storage	Storage Description
#1	306.00'	27,930 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
306.00	306	196.0	0	0	306
308.00	1,616	240.0	1,750	1,750	1,894
310.00	3,201	285.0	4,728	6,478	3,846
312.00	6,785	438.0	9,764	16,242	12,678
313.50	8,844	470.0	11,688	27,930	15,088

Device	Routing	Invert	Outlet Devices
#1	Device 4	309.80'	**4.5" Vert. Orifice/Grate** C= 0.600
#2	Device 4	311.50'	**14.0" Vert. Orifice/Grate** C= 0.600
#3	Device 4	313.10'	**48.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Primary	309.75'	**15.0" Round Culvert** L= 93.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 309.75' / 307.89' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.16 cfs @ 12.37 hrs HW=312.29' TW=308.78' (Dynamic Tailwater)
└**4=Culvert** (Passes 3.16 cfs of 8.19 cfs potential flow)
  ├**1=Orifice/Grate** (Orifice Controls 0.81 cfs @ 7.31 fps)
  ├**2=Orifice/Grate** (Orifice Controls 2.35 cfs @ 3.03 fps)
  └**3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 3P: Pocket Pond #2

Inflow Area = 6.15 ac, 22.36% Impervious, Inflow Depth > 2.72" for 2-yr-frozen event
Inflow = 13.87 cfs @ 12.14 hrs, Volume= 1.397 af
Outflow = 9.46 cfs @ 12.30 hrs, Volume= 1.380 af, Atten= 32%, Lag= 9.8 min
Primary = 9.46 cfs @ 12.30 hrs, Volume= 1.380 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Starting Elev= 271.98' Surf.Area= 2,847 sf Storage= 5,675 cf
Peak Elev= 274.83' @ 12.30 hrs Surf.Area= 5,643 sf Storage= 17,656 cf (11,981 cf above start)

Plug-Flow detention time= 112.8 min calculated for 1.248 af (89% of inflow)
Center-of-Mass det. time= 28.8 min (790.7 - 761.9)

Volume	Invert	Avail.Storage	Storage Description
#1	268.00'	25,013 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
268.00	408	0	0
269.00	790	599	599
270.00	1,250	1,020	1,619
272.00	2,863	4,113	5,732
274.00	4,762	7,625	13,357
276.00	6,894	11,656	25,013

Device	Routing	Invert	Outlet Devices
#1	Device 4	272.00'	**9.0" Vert. Orifice/Grate** C= 0.600
#2	Secondary	275.35'	**10.0' long x 4.0' 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) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32
#3	Device 4	273.80'	**24.0" W x 10.0" H Vert. Orifice/Grate** C= 0.600

#4	Primary	272.00'	**18.0" Round Culvert** L= 105.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 272.00' / 271.57' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#5	Primary	275.70'	**48.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=9.46 cfs @ 12.30 hrs HW=274.83' TW=0.00' (Dynamic Tailwater)
- **4=Culvert** (Passes 9.46 cfs of 10.14 cfs potential flow)
  - **1=Orifice/Grate** (Orifice Controls 3.33 cfs @ 7.54 fps)
  - **3=Orifice/Grate** (Orifice Controls 6.13 cfs @ 3.68 fps)
- **5=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=271.98' TW=0.00' (Dynamic Tailwater)
- **2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 30P: Infiltration Pond #1

Inflow Area = 0.41 ac, 37.64% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 1.13 cfs @ 12.09 hrs, Volume= 0.092 af
Outflow = 0.06 cfs @ 14.00 hrs, Volume= 0.071 af, Atten= 95%, Lag= 114.8 min
Discarded = 0.06 cfs @ 14.00 hrs, Volume= 0.071 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 281.06' @ 14.00 hrs Surf.Area= 2,661 sf Storage= 2,049 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 184.2 min (941.8 - 757.6)

Volume	Invert	Avail.Storage	Storage Description
#1	280.00'	5,166 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
280.00	1,214	0	0
282.00	3,952	5,166	5,166

Device	Routing	Invert	Outlet Devices
#1	Discarded	280.00'	**1.000 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.06 cfs @ 14.00 hrs HW=281.06' (Free Discharge)
- **1=Exfiltration** (Exfiltration Controls 0.06 cfs)

Summary for Pond 31P: Infiltration Pond #2

Inflow Area = 1.13 ac, 39.15% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 3.15 cfs @ 12.09 hrs, Volume= 0.256 af
Outflow = 0.25 cfs @ 13.11 hrs, Volume= 0.190 af, Atten= 92%, Lag= 61.2 min
Discarded = 0.10 cfs @ 13.11 hrs, Volume= 0.135 af
Primary = 0.14 cfs @ 13.11 hrs, Volume= 0.055 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 275.49' @ 13.11 hrs Surf.Area= 4,433 sf Storage= 5,574 cf

Plug-Flow detention time= 227.9 min calculated for 0.190 af (74% of inflow)
Center-of-Mass det. time= 142.3 min (900.0 - 757.6)

Volume	Invert	Avail.Storage	Storage Description
#1	274.00'	7,938 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
274.00	3,030	0	0
276.00	4,908	7,938	7,938

Device	Routing	Invert	Outlet Devices
#1	Device 3	275.00'	**3.0" Vert. Orifice/Grate** C= 0.600
#2	Discarded	274.00'	**1.000 in/hr Exfiltration over Surface area**
#3	Primary	274.16'	**15.0" Round Culvert** L= 32.2' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 274.16' / 274.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#4	Primary	276.40'	**24.0" x 24.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.10 cfs @ 13.11 hrs HW=275.49' (Free Discharge)
└**2=Exfiltration** (Exfiltration Controls 0.10 cfs)

Primary OutFlow Max=0.14 cfs @ 13.11 hrs HW=275.49' TW=0.00' (Dynamic Tailwater)
├**3=Culvert** (Passes 0.14 cfs of 4.12 cfs potential flow)
│└**1=Orifice/Grate** (Orifice Controls 0.14 cfs @ 2.92 fps)
└**4=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 100: AD#100

Inflow Area = 0.02 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 0.06 cfs @ 12.09 hrs, Volume= 0.005 af
Outflow = 0.06 cfs @ 12.09 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
Primary = 0.06 cfs @ 12.09 hrs, Volume= 0.005 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.94' @ 12.09 hrs
Flood Elev= 297.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	295.81'	**8.0" Round Culvert** L= 58.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 295.81' / 294.35' S= 0.0251 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.06 cfs @ 12.09 hrs HW=295.94' TW=294.48' (Dynamic Tailwater)
└**1=Culvert** (Inlet Controls 0.06 cfs @ 1.22 fps)

Summary for Pond 101: AD#101

Inflow Area = 0.06 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 0.18 cfs @ 12.09 hrs, Volume= 0.014 af
Outflow = 0.18 cfs @ 12.09 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min
Primary = 0.18 cfs @ 12.09 hrs, Volume= 0.014 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 294.48' @ 12.09 hrs
Flood Elev= 297.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.25'	**8.0" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.25' / 292.40' S= 0.0500 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.17 cfs @ 12.09 hrs HW=294.48' TW=293.24' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.17 cfs @ 1.63 fps)

Summary for Pond 102: AD#102

Inflow Area = 0.08 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 0.24 cfs @ 12.09 hrs, Volume= 0.019 af
Outflow = 0.24 cfs @ 12.09 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min
Primary = 0.24 cfs @ 12.09 hrs, Volume= 0.019 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 293.44' @ 12.19 hrs
Flood Elev= 297.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	292.95'	**8.0" Round Culvert** L= 27.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.95' / 292.40' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.08 cfs @ 12.09 hrs HW=293.27' TW=293.24' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.08 cfs @ 0.74 fps)

Summary for Pond 103: AD#103

Inflow Area = 0.04 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af
Outflow = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af, Atten= 0%, Lag= 0.0 min
Primary = 0.12 cfs @ 12.09 hrs, Volume= 0.010 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 294.42' @ 12.09 hrs
Flood Elev= 297.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.23'	**8.0" Round Culvert** L= 59.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.23' / 293.05' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.12 cfs @ 12.09 hrs HW=294.41' TW=293.27' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.12 cfs @ 1.46 fps)

Summary for Pond 104: AD#104

Inflow Area = 0.23 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 0.65 cfs @ 12.09 hrs, Volume= 0.053 af
Outflow = 0.65 cfs @ 12.09 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min
Primary = 0.65 cfs @ 12.09 hrs, Volume= 0.053 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.76' @ 12.09 hrs
Flood Elev= 299.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	295.27'	**8.0" Round Culvert** L= 16.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 295.27' / 294.66' S= 0.0367 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.63 cfs @ 12.09 hrs HW=295.75' TW=295.24' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.63 cfs @ 2.36 fps)

Summary for Pond 105: AD#105

Inflow Area = 0.19 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 0.53 cfs @ 12.09 hrs, Volume= 0.043 af
Outflow = 0.53 cfs @ 12.09 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min
Primary = 0.53 cfs @ 12.09 hrs, Volume= 0.043 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 297.96' @ 12.09 hrs
Flood Elev= 301.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	297.53'	**8.0" Round Culvert** L= 53.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 297.53' / 295.38' S= 0.0400 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.52 cfs @ 12.09 hrs HW=297.95' TW=295.75' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.52 cfs @ 2.22 fps)

Summary for Pond 106: AD#106

Inflow Area = 0.15 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 0.41 cfs @ 12.09 hrs, Volume= 0.034 af
Outflow = 0.41 cfs @ 12.09 hrs, Volume= 0.034 af, Atten= 0%, Lag= 0.0 min
Primary = 0.41 cfs @ 12.09 hrs, Volume= 0.034 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 300.24' @ 12.09 hrs
Flood Elev= 303.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	299.87'	**8.0" Round Culvert** L= 55.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 299.87' / 297.63' S= 0.0401 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.40 cfs @ 12.09 hrs HW=300.24' TW=297.95' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.40 cfs @ 2.06 fps)

Summary for Pond 107: AD#107

Inflow Area = 0.11 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 0.30 cfs @ 12.09 hrs, Volume= 0.024 af
Outflow = 0.30 cfs @ 12.09 hrs, Volume= 0.024 af, Atten= 0%, Lag= 0.0 min
Primary = 0.30 cfs @ 12.09 hrs, Volume= 0.024 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 303.18' @ 12.09 hrs
Flood Elev= 306.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	302.85'	**8.0" Round Culvert** L= 64.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 302.85' / 299.97' S= 0.0450 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.29 cfs @ 12.09 hrs HW=303.17' TW=300.24' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.29 cfs @ 1.71 fps)

Summary for Pond 108: AD#108

Inflow Area = 0.06 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 0.18 cfs @ 12.09 hrs, Volume= 0.014 af
Outflow = 0.18 cfs @ 12.09 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min
Primary = 0.18 cfs @ 12.09 hrs, Volume= 0.014 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 306.08' @ 12.09 hrs
Flood Elev= 309.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	305.85'	**8.0" Round Culvert** L= 64.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 305.85' / 302.96' S= 0.0448 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.17 cfs @ 12.09 hrs HW=306.08' TW=303.17' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.17 cfs @ 1.63 fps)

Summary for Pond 109: AD#109

Inflow Area = 0.02 ac,100.00% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 0.06 cfs @ 12.09 hrs, Volume= 0.005 af
Outflow = 0.06 cfs @ 12.09 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
Primary = 0.06 cfs @ 12.09 hrs, Volume= 0.005 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 308.82' @ 12.09 hrs
Flood Elev= 311.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	308.69'	**8.0" Round Culvert** L= 49.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 308.69' / 305.95' S= 0.0549 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.06 cfs @ 12.09 hrs HW=308.82' TW=306.08' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.06 cfs @ 1.22 fps)

Summary for Pond CB11: CB#11

Inflow Area = 1.47 ac, 47.09% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 4.11 cfs @ 12.09 hrs, Volume= 0.333 af
Outflow = 4.11 cfs @ 12.09 hrs, Volume= 0.333 af, Atten= 0%, Lag= 0.0 min
Primary = 4.11 cfs @ 12.09 hrs, Volume= 0.333 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.32' @ 12.44 hrs
Flood Elev= 314.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.04'	**18.0" Round Culvert** L= 30.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.04' / 309.89' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.45 cfs @ 12.09 hrs HW=311.75' TW=311.72' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.45 cfs @ 0.82 fps)

Summary for Pond CB110: CB#110

Inflow Area = 0.34 ac, 52.43% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 0.95 cfs @ 12.09 hrs, Volume= 0.077 af
Outflow = 0.95 cfs @ 12.09 hrs, Volume= 0.077 af, Atten= 0%, Lag= 0.0 min
Primary = 0.95 cfs @ 12.09 hrs, Volume= 0.077 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.32' @ 12.49 hrs
Flood Elev= 314.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.25'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.25' / 310.14' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=311.56' TW=311.75' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB12: CB#12

Inflow Area = 0.73 ac, 49.36% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 2.06 cfs @ 12.09 hrs, Volume= 0.167 af
Outflow = 2.06 cfs @ 12.09 hrs, Volume= 0.167 af, Atten= 0%, Lag= 0.0 min
Primary = 2.06 cfs @ 12.09 hrs, Volume= 0.167 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 313.71' @ 12.09 hrs
Flood Elev= 317.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	313.00'	**15.0" Round Culvert** L= 106.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 313.00' / 310.21' S= 0.0263 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.00 cfs @ 12.09 hrs HW=313.70' TW=311.75' (Dynamic Tailwater)
1=Culvert (Inlet Controls 2.00 cfs @ 2.84 fps)

Summary for Pond CB120: CB#120

Inflow Area = 0.50 ac, 47.90% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 1.39 cfs @ 12.09 hrs, Volume= 0.113 af
Outflow = 1.39 cfs @ 12.09 hrs, Volume= 0.113 af, Atten= 0%, Lag= 0.0 min
Primary = 1.39 cfs @ 12.09 hrs, Volume= 0.113 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 313.98' @ 12.10 hrs
Flood Elev= 317.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	313.32'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 313.32' / 313.10' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.24 cfs @ 12.09 hrs HW=313.97' TW=313.70' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.24 cfs @ 2.83 fps)

Summary for Pond CB14: CB#14

Inflow Area = 3.64 ac, 46.14% Impervious, Inflow Depth > 2.67" for 2-yr-frozen event
Inflow = 3.39 cfs @ 12.35 hrs, Volume= 0.811 af
Outflow = 3.39 cfs @ 12.35 hrs, Volume= 0.811 af, Atten= 0%, Lag= 0.0 min
Primary = 3.39 cfs @ 12.35 hrs, Volume= 0.811 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 308.78' @ 12.36 hrs
Flood Elev= 312.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	307.79'	**15.0" Round Culvert** L= 37.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 307.79' / 307.22' S= 0.0150 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.38 cfs @ 12.35 hrs HW=308.78' TW=308.09' (Dynamic Tailwater)
1=Culvert (Outlet Controls 3.38 cfs @ 4.42 fps)

Summary for Pond CB15: CB#15

Inflow Area = 3.71 ac, 46.04% Impervious, Inflow Depth > 2.67" for 2-yr-frozen event
Inflow = 3.45 cfs @ 12.34 hrs, Volume= 0.826 af
Outflow = 3.45 cfs @ 12.34 hrs, Volume= 0.826 af, Atten= 0%, Lag= 0.0 min
Primary = 3.45 cfs @ 12.34 hrs, Volume= 0.826 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 308.09' @ 12.34 hrs
Flood Elev= 312.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	307.12'	**15.0" Round Culvert** L= 120.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 307.12' / 300.65' S= 0.0539 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.45 cfs @ 12.34 hrs HW=308.09' TW=0.00' (Dynamic Tailwater)
1=Culvert (Inlet Controls 3.45 cfs @ 3.36 fps)

Summary for Pond CB170: CB#170

Inflow Area = 0.74 ac, 68.11% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 2.08 cfs @ 12.09 hrs, Volume= 0.169 af
Outflow = 2.08 cfs @ 12.09 hrs, Volume= 0.169 af, Atten= 0%, Lag= 0.0 min
Primary = 2.08 cfs @ 12.09 hrs, Volume= 0.169 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 278.61' @ 12.09 hrs
Flood Elev= 281.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	277.90'	**15.0" Round Culvert** L= 36.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 277.90' / 277.17' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.03 cfs @ 12.09 hrs HW=278.60' TW=276.17' (Dynamic Tailwater)
1=Culvert (Inlet Controls 2.03 cfs @ 2.85 fps)

Summary for Pond CB171: CB#171

Inflow Area = 0.61 ac, 66.16% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 1.70 cfs @ 12.09 hrs, Volume= 0.138 af
Outflow = 1.70 cfs @ 12.09 hrs, Volume= 0.138 af, Atten= 0%, Lag= 0.0 min
Primary = 1.70 cfs @ 12.09 hrs, Volume= 0.138 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 278.94' @ 12.10 hrs
Flood Elev= 281.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.22'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 278.22' / 278.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.56 cfs @ 12.09 hrs HW=278.93' TW=278.60' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.56 cfs @ 3.15 fps)

Summary for Pond CB19: CB #19

Inflow Area = 2.45 ac, 33.78% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 6.29 cfs @ 12.12 hrs, Volume= 0.556 af
Outflow = 6.29 cfs @ 12.12 hrs, Volume= 0.556 af, Atten= 0%, Lag= 0.0 min
Primary = 6.29 cfs @ 12.12 hrs, Volume= 0.556 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 278.03' @ 12.14 hrs
Flood Elev= 281.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.67'	**18.0" Round Culvert** L= 33.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 276.67' / 276.16' S= 0.0151 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.72 cfs @ 12.12 hrs HW=277.99' TW=277.33' (Dynamic Tailwater)
1=Culvert (Outlet Controls 5.72 cfs @ 4.61 fps)

Summary for Pond CB20: CB #20

Inflow Area = 2.14 ac, 28.84% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 5.47 cfs @ 12.12 hrs, Volume= 0.485 af
Outflow = 5.47 cfs @ 12.12 hrs, Volume= 0.485 af, Atten= 0%, Lag= 0.0 min
Primary = 5.47 cfs @ 12.12 hrs, Volume= 0.485 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 278.51' @ 12.15 hrs
Flood Elev= 281.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	277.21'	**18.0" Round Culvert** L= 22.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 277.21' / 276.77' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.74 cfs @ 12.12 hrs HW=278.47' TW=278.00' (Dynamic Tailwater)
1=Culvert (Outlet Controls 4.74 cfs @ 4.05 fps)

Summary for Pond CB201: CB#201

Inflow Area = 0.69 ac, 40.43% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 1.92 cfs @ 12.09 hrs, Volume= 0.156 af
Outflow = 1.92 cfs @ 12.09 hrs, Volume= 0.156 af, Atten= 0%, Lag= 0.0 min
Primary = 1.92 cfs @ 12.09 hrs, Volume= 0.156 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 292.86' @ 12.31 hrs
Flood Elev= 300.43'

Device	Routing	Invert	Outlet Devices
#1	Primary	291.88'	**15.0" Round Culvert** L= 82.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 291.88' / 291.45' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.39 cfs @ 12.09 hrs HW=292.68' TW=292.36' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.39 cfs @ 2.41 fps)

Summary for Pond CB3: CB#3

Inflow Area = 1.67 ac, 66.11% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 4.69 cfs @ 12.09 hrs, Volume= 0.381 af
Outflow = 4.69 cfs @ 12.09 hrs, Volume= 0.381 af, Atten= 0%, Lag= 0.0 min
Primary = 4.69 cfs @ 12.09 hrs, Volume= 0.381 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 293.39' @ 12.10 hrs
Flood Elev= 296.31'

Device	Routing	Invert	Outlet Devices
#1	Primary	292.09'	**15.0" Round Culvert** L= 80.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.09' / 291.29' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=4.21 cfs @ 12.09 hrs HW=293.36' TW=292.55' (Dynamic Tailwater)
1=Culvert (Outlet Controls 4.21 cfs @ 4.21 fps)

Summary for Pond CB30: CB#30

Inflow Area = 0.32 ac, 91.05% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 0.90 cfs @ 12.09 hrs, Volume= 0.073 af
Outflow = 0.90 cfs @ 12.09 hrs, Volume= 0.073 af, Atten= 0%, Lag= 0.0 min
Primary = 0.90 cfs @ 12.09 hrs, Volume= 0.073 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 293.41' @ 12.15 hrs
Flood Elev= 296.31'

Device	Routing	Invert	Outlet Devices
#1	Primary	292.30'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.30' / 292.19' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=293.24' TW=293.36' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB4: CB#4

Inflow Area = 0.82 ac, 72.75% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 2.31 cfs @ 12.09 hrs, Volume= 0.187 af
Outflow = 2.31 cfs @ 12.09 hrs, Volume= 0.187 af, Atten= 0%, Lag= 0.0 min
Primary = 2.31 cfs @ 12.09 hrs, Volume= 0.187 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.00' @ 12.09 hrs
Flood Elev= 298.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.24'	**15.0" Round Culvert** L= 80.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.24' / 292.58' S= 0.0205 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.25 cfs @ 12.09 hrs HW=294.99' TW=293.36' (Dynamic Tailwater)
1=Culvert (Inlet Controls 2.25 cfs @ 2.94 fps)

Summary for Pond CB5: CB#5

Inflow Area = 0.53 ac, 77.00% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 1.48 cfs @ 12.09 hrs, Volume= 0.120 af
Outflow = 1.48 cfs @ 12.09 hrs, Volume= 0.120 af, Atten= 0%, Lag= 0.0 min
Primary = 1.48 cfs @ 12.09 hrs, Volume= 0.120 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.26' @ 12.11 hrs
Flood Elev= 298.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.56'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.56' / 294.34' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.31 cfs @ 12.09 hrs HW=295.24' TW=294.99' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.31 cfs @ 2.78 fps)

Summary for Pond CB80: CB#80

Inflow Area = 0.64 ac, 56.11% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 1.77 cfs @ 12.09 hrs, Volume= 0.145 af
Outflow = 1.77 cfs @ 12.09 hrs, Volume= 0.145 af, Atten= 0%, Lag= 0.0 min
Primary = 1.77 cfs @ 12.09 hrs, Volume= 0.145 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.33' @ 12.43 hrs
Flood Elev= 314.01'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.06'	**15.0" Round Culvert** L= 15.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.06' / 309.98' S= 0.0053 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=311.74' TW=311.90' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB800: CB#800

Inflow Area = 0.27 ac, 72.99% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 0.75 cfs @ 12.09 hrs, Volume= 0.061 af
Outflow = 0.75 cfs @ 12.09 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min
Primary = 0.75 cfs @ 12.09 hrs, Volume= 0.061 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.33' @ 12.48 hrs
Flood Elev= 314.01'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.27'	**15.0" Round Culvert** L= 22.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.27' / 310.16' S= 0.0048 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=311.48' TW=311.72' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB9: CB#9

Inflow Area = 0.90 ac, 54.67% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 2.53 cfs @ 12.09 hrs, Volume= 0.206 af
Outflow = 2.53 cfs @ 12.09 hrs, Volume= 0.206 af, Atten= 0%, Lag= 0.0 min
Primary = 2.53 cfs @ 12.09 hrs, Volume= 0.206 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 314.84' @ 12.09 hrs
Flood Elev= 317.43'

Device	Routing	Invert	Outlet Devices
#1	Primary	314.04'	**15.0" Round Culvert** L= 203.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 314.04' / 310.50' S= 0.0174 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.47 cfs @ 12.09 hrs HW=314.83' TW=311.88' (Dynamic Tailwater)
1=Culvert (Inlet Controls 2.47 cfs @ 3.02 fps)

Summary for Pond CB90: CB#90

Inflow Area = 0.31 ac, 72.11% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 0.88 cfs @ 12.09 hrs, Volume= 0.071 af
Outflow = 0.88 cfs @ 12.09 hrs, Volume= 0.071 af, Atten= 0%, Lag= 0.0 min
Primary = 0.88 cfs @ 12.09 hrs, Volume= 0.071 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 315.21' @ 12.10 hrs
Flood Elev= 317.72'

Device	Routing	Invert	Outlet Devices
#1	Primary	314.74'	**15.0" Round Culvert** L= 29.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 314.74' / 314.14' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.80 cfs @ 12.09 hrs HW=315.20' TW=314.83' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.80 cfs @ 2.92 fps)

Summary for Pond DMH111: DMH#111

Inflow Area = 1.47 ac, 47.09% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 4.11 cfs @ 12.09 hrs, Volume= 0.333 af
Outflow = 4.11 cfs @ 12.09 hrs, Volume= 0.333 af, Atten= 0%, Lag= 0.0 min
Primary = 4.11 cfs @ 12.09 hrs, Volume= 0.333 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.30' @ 12.42 hrs
Flood Elev= 314.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	309.79'	**24.0" Round Culvert** L= 40.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 309.79' / 309.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=311.72' TW=311.86' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond DMH17: DMH#17

Inflow Area = 3.19 ac, 41.78% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 8.31 cfs @ 12.11 hrs, Volume= 0.725 af
Outflow = 8.31 cfs @ 12.11 hrs, Volume= 0.725 af, Atten= 0%, Lag= 0.0 min
Primary = 8.31 cfs @ 12.11 hrs, Volume= 0.725 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 276.23' @ 12.12 hrs
Flood Elev= 279.48'

Device	Routing	Invert	Outlet Devices
#1	Primary	274.89'	**24.0" Round Culvert** L= 279.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 274.89' / 272.09' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=7.62 cfs @ 12.11 hrs HW=276.21' TW=274.33' (Dynamic Tailwater)
1=Culvert (Outlet Controls 7.62 cfs @ 4.91 fps)

Summary for Pond DMH18: DMH#18

Inflow Area = 2.45 ac, 33.78% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 6.29 cfs @ 12.12 hrs, Volume= 0.556 af
Outflow = 6.29 cfs @ 12.12 hrs, Volume= 0.556 af, Atten= 0%, Lag= 0.0 min
Primary = 6.29 cfs @ 12.12 hrs, Volume= 0.556 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 277.36' @ 12.12 hrs
Flood Elev= 281.88'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.06'	**18.0" Round Culvert** L= 71.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 276.06' / 274.99' S= 0.0149 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=6.14 cfs @ 12.12 hrs HW=277.33' TW=276.21' (Dynamic Tailwater)
1=Culvert (Inlet Controls 6.14 cfs @ 3.84 fps)

Summary for Pond DMH2: DMH#2

Inflow Area = 1.67 ac, 66.11% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 4.69 cfs @ 12.09 hrs, Volume= 0.381 af
Outflow = 4.69 cfs @ 12.09 hrs, Volume= 0.381 af, Atten= 0%, Lag= 0.0 min
Primary = 4.69 cfs @ 12.09 hrs, Volume= 0.381 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 292.86' @ 12.31 hrs
Flood Elev= 297.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	291.19'	**18.0" Round Culvert** L= 50.2' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 291.19' / 291.04' S= 0.0030 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.96 cfs @ 12.09 hrs HW=292.55' TW=292.36' (Dynamic Tailwater)
1=Culvert (Outlet Controls 2.96 cfs @ 2.32 fps)

Summary for Pond DMH8: DMH#8

Inflow Area = 1.54 ac, 55.26% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 4.30 cfs @ 12.09 hrs, Volume= 0.350 af
Outflow = 4.30 cfs @ 12.09 hrs, Volume= 0.350 af, Atten= 0%, Lag= 0.0 min
Primary = 4.30 cfs @ 12.09 hrs, Volume= 0.350 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.32' @ 12.39 hrs
Flood Elev= 314.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	309.88'	**18.0" Round Culvert** L= 13.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 309.88' / 309.81' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.30 cfs @ 12.09 hrs HW=311.89' TW=311.86' (Dynamic Tailwater)
↑**1=Culvert** (Inlet Controls 1.30 cfs @ 0.74 fps)

Summary for Link A: Western Shadowbrook Drive Treatment Area

Inflow Area = 5.76 ac, 33.42% Impervious, Inflow Depth > 2.73" for 2-yr-frozen event
Inflow = 10.37 cfs @ 12.10 hrs, Volume= 1.309 af
Primary = 10.37 cfs @ 12.10 hrs, Volume= 1.309 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link B: pond at beginning of neighborhood

Inflow Area = 5.28 ac, 37.67% Impervious, Inflow Depth > 2.69" for 2-yr-frozen event
Inflow = 6.65 cfs @ 12.12 hrs, Volume= 1.184 af
Primary = 6.65 cfs @ 12.12 hrs, Volume= 1.184 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link C: Wetlands

Inflow Area = 9.23 ac, 21.04% Impervious, Inflow Depth > 2.44" for 2-yr-frozen event
Inflow = 13.25 cfs @ 12.22 hrs, Volume= 1.879 af
Primary = 13.25 cfs @ 12.22 hrs, Volume= 1.879 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Flow to Tammy Court Runoff Area=57,559 sf 17.28% Impervious Runoff Depth>2.38"
Flow Length=263' Slope=0.6600 '/' Tc=6.0 min CN=WQ Runoff=3.46 cfs 0.263 af

Subcatchment2S: Shadowbrook Dr CB1 Runoff Area=7,546 sf 57.32% Impervious Runoff Depth>2.91"
Flow Length=300' Slope=0.0200 '/' Tc=6.0 min CN=WQ Runoff=0.52 cfs 0.042 af

Subcatchment3S: Shadowbrook Dr CB2 Runoff Area=24,663 sf 8.93% Impervious Runoff Depth>1.93"
Flow Length=344' Tc=8.6 min CN=WQ Runoff=1.11 cfs 0.091 af

Subcatchment4S: Flow to Shadowbrook Runoff Area=11,312 sf 38.41% Impervious Runoff Depth>2.95"
Tc=6.0 min CN=WQ Runoff=0.82 cfs 0.064 af

Subcatchment5S: Canterberry Court Flow Runoff Area=36,412 sf 15.94% Impervious Runoff Depth>0.76"
Flow Length=187' Tc=6.0 min CN=WQ Runoff=0.57 cfs 0.053 af

Subcatchment6S: Lower Shadowbrook Dr Runoff Area=72,715 sf 12.69% Impervious Runoff Depth>0.62"
Flow Length=137' Tc=6.0 min CN=WQ Runoff=0.90 cfs 0.087 af

Subcatchment7S: Rear Overland Flow to Runoff Area=85,028 sf 6.43% Impervious Runoff Depth>1.78"
Flow Length=183' Tc=11.5 min CN=WQ Runoff=3.20 cfs 0.290 af

Subcatchment10S: Roadway Flow Runoff Area=13,692 sf 72.11% Impervious Runoff Depth>3.08"
Flow Length=307' Slope=0.0150 '/' Tc=6.0 min CN=WQ Runoff=0.97 cfs 0.081 af

Subcatchment11S: Roadway Flow Runoff Area=25,722 sf 45.39% Impervious Runoff Depth>3.06"
Flow Length=279' Tc=6.0 min CN=WQ Runoff=1.91 cfs 0.150 af

Subcatchment20S: Roadway Flow Runoff Area=2,774 sf 40.41% Impervious Runoff Depth>2.61"
Flow Length=65' Tc=6.0 min CN=WQ Runoff=0.17 cfs 0.014 af

Subcatchment21S: Roadway Flow Runoff Area=9,904 sf 37.65% Impervious Runoff Depth>2.57"
Flow Length=203' Tc=6.0 min CN=WQ Runoff=0.61 cfs 0.049 af

Subcatchment22S: Overland Flow to Pond Runoff Area=17,710 sf 12.85% Impervious Runoff Depth>1.69"
Flow Length=47' Slope=0.2127 '/' Tc=6.0 min CN=WQ Runoff=0.74 cfs 0.057 af

Subcatchment30S: Roadway Flow Runoff Area=14,714 sf 52.43% Impervious Runoff Depth>3.37"
Flow Length=276' Tc=6.0 min CN=WQ Runoff=1.20 cfs 0.095 af

Subcatchment31S: Roadway Flow Runoff Area=17,194 sf 38.30% Impervious Runoff Depth>2.60"
Flow Length=230' Tc=6.0 min CN=WQ Runoff=1.08 cfs 0.086 af

Subcatchment32S: Roadway Flow Runoff Area=21,651 sf 47.90% Impervious Runoff Depth>3.16"
Flow Length=223' Tc=6.0 min CN=WQ Runoff=1.66 cfs 0.131 af

Subcatchment33S: Roadway Flow Runoff Area=10,356 sf 52.43% Impervious Runoff Depth>2.65"
Flow Length=257' Tc=6.0 min CN=WQ Runoff=0.64 cfs 0.053 af

Subcatchment40S: Roadway Flow Runoff Area=11,686 sf 72.99% Impervious Runoff Depth>3.28"
Flow Length=263' Slope=0.0150 '/' Tc=6.0 min CN=WQ Runoff=0.89 cfs 0.073 af

Subcatchment41S: Roadway Flow Runoff Area=16,070 sf 43.83% Impervious Runoff Depth>3.11"
Flow Length=268' Tc=6.5 min CN=WQ Runoff=1.21 cfs 0.096 af

Subcatchment42S: Flow to CB#200 Runoff Area=29,920 sf 40.43% Impervious Runoff Depth>2.95"
Flow Length=385' Tc=6.0 min CN=WQ Runoff=2.16 cfs 0.169 af

Subcatchment50S: Roadway Flow Runoff Area=12,898 sf 58.95% Impervious Runoff Depth>2.54"
Flow Length=300' Tc=6.0 min CN=WQ Runoff=0.74 cfs 0.063 af

Subcatchment51S: Roadway Flow Runoff Area=12,915 sf 65.19% Impervious Runoff Depth>2.80"
Flow Length=163' Tc=6.0 min CN=WQ Runoff=0.82 cfs 0.069 af

Subcatchment60S: Roadway and Building Runoff Area=23,012 sf 40.57% Impervious Runoff Depth>1.78"
Flow Length=220' Tc=6.0 min CN=WQ Runoff=0.91 cfs 0.078 af

Subcatchment61S: Roadway Flow Runoff Area=7,564 sf 83.43% Impervious Runoff Depth>3.55"
Flow Length=152' Slope=0.0200 '/' Tc=6.0 min CN=WQ Runoff=0.62 cfs 0.051 af

Subcatchment62S: Bioretention Pond Area Runoff Area=6,453 sf 0.00% Impervious Runoff Depth>0.11"
Tc=6.0 min CN=39 Runoff=0.00 cfs 0.001 af

Subcatchment70S: Overland Flow to Runoff Area=128,858 sf 1.40% Impervious Runoff Depth>2.04"
Flow Length=745' Tc=14.6 min CN=WQ Runoff=5.35 cfs 0.504 af

Subcatchment71S: Roadway Flow Runoff Area=26,495 sf 66.16% Impervious Runoff Depth>3.15"
Flow Length=300' Tc=6.0 min CN=WQ Runoff=1.95 cfs 0.160 af

Subcatchment72S: House Flow to Pond Runoff Area=49,031 sf 39.15% Impervious Runoff Depth>1.99"
Flow Length=127' Tc=6.0 min CN=WQ Runoff=2.24 cfs 0.187 af

Subcatchment73S: Roadway Flow Runoff Area=5,932 sf 76.82% Impervious Runoff Depth>3.28"
Flow Length=200' Slope=0.0200 '/' Tc=6.0 min CN=WQ Runoff=0.45 cfs 0.037 af

Subcatchment74S: Area in Circle to Runoff Area=17,656 sf 37.64% Impervious Runoff Depth>1.96"
Flow Length=40' Slope=0.1000 '/' Tc=6.0 min CN=WQ Runoff=0.80 cfs 0.066 af

Subcatchment75S: Roadway Flow Runoff Area=13,639 sf 67.50% Impervious Runoff Depth>3.27"
Flow Length=196' Slope=0.0200 '/' Tc=6.0 min CN=WQ Runoff=1.04 cfs 0.085 af

Subcatchment76S: Roadway Flow Runoff Area=93,020 sf 28.84% Impervious Runoff Depth>2.61"
Flow Length=468' Tc=9.0 min CN=WQ Runoff=5.44 cfs 0.465 af

Subcatchment100S: Unit 1 Runoff Area=920 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.09 cfs 0.007 af

Subcatchment101S: Units 2 & 3 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.18 cfs 0.015 af

Subcatchment102S: Units 4 & 5 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.18 cfs 0.015 af

Subcatchment103S: Units 6 & 7 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.18 cfs 0.015 af

Subcatchment104S: Units 8 & 9 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.18 cfs 0.015 af

Subcatchment105S: Units 11 & 10 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.18 cfs 0.015 af

Subcatchment106S: Units 13 & 12 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.18 cfs 0.015 af

Subcatchment107S: Units 15 & 14 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.18 cfs 0.015 af

Subcatchment108S: Units 17 & 16 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.18 cfs 0.015 af

Subcatchment109S: Unit 18 Runoff Area=920 sf 100.00% Impervious Runoff Depth>4.23"
Tc=6.0 min CN=98 Runoff=0.09 cfs 0.007 af

Reach 1R: Tammy Court Inflow=3.46 cfs 0.263 af
Outflow=3.46 cfs 0.263 af

Reach 2R: Ex CB1 Inflow=3.86 cfs 0.907 af
Outflow=3.86 cfs 0.907 af

Reach 3R: Ex CB 2 Inflow=1.11 cfs 0.091 af
Outflow=1.11 cfs 0.091 af

Reach 4R: Upper Shadowbrook Drive Drainage Inflow=3.09 cfs 0.630 af
Outflow=3.09 cfs 0.630 af

Reach 5R: Canterberry Ct Drainage Inflow=0.57 cfs 0.053 af
Outflow=0.57 cfs 0.053 af

Reach 6R: Lower Shadowbrook Dr CB Inflow=0.90 cfs 0.087 af
Outflow=0.90 cfs 0.087 af

Pond 1P: Bioretention Pond #1 Peak Elev=292.77' Storage=7,995 cf Inflow=6.88 cfs 0.566 af
Primary=2.74 cfs 0.566 af Secondary=0.00 cfs 0.000 af Outflow=2.74 cfs 0.566 af

Pond 2P: Pocket Pond #1 Peak Elev=312.34' Storage=18,642 cf Inflow=10.28 cfs 0.821 af
Outflow=3.40 cfs 0.802 af

Pond 3P: Pocket Pond #2 Peak Elev=274.69' Storage=16,919 cf Inflow=13.02 cfs 1.251 af
Primary=8.57 cfs 1.233 af Secondary=0.00 cfs 0.000 af Outflow=8.57 cfs 1.233 af

Pond 30P: Infiltration Pond #1 Peak Elev=280.74' Storage=1,278 cf Inflow=0.80 cfs 0.066 af
Outflow=0.05 cfs 0.058 af

Pond 31P: Infiltration Pond #2 Peak Elev=275.12' Storage=3,993 cf Inflow=2.24 cfs 0.187 af
Discarded=0.09 cfs 0.125 af Primary=0.03 cfs 0.007 af Outflow=0.12 cfs 0.132 af

Pond 100: AD#100 Peak Elev=295.97' Inflow=0.09 cfs 0.007 af
8.0" Round Culvert n=0.013 L=58.1' S=0.0251 '/' Outflow=0.09 cfs 0.007 af

Pond 101: AD#101 Peak Elev=294.54' Inflow=0.27 cfs 0.022 af
8.0" Round Culvert n=0.013 L=37.0' S=0.0500 '/' Outflow=0.27 cfs 0.022 af

Pond 102: AD#102 Peak Elev=293.48' Inflow=0.36 cfs 0.030 af
8.0" Round Culvert n=0.013 L=27.4' S=0.0201 '/' Outflow=0.36 cfs 0.030 af

Pond 103: AD#103 Peak Elev=294.46' Inflow=0.18 cfs 0.015 af
8.0" Round Culvert n=0.013 L=59.0' S=0.0200 '/' Outflow=0.18 cfs 0.015 af

Pond 104: AD#104 Peak Elev=295.95' Inflow=0.99 cfs 0.082 af
8.0" Round Culvert n=0.013 L=16.6' S=0.0367 '/' Outflow=0.99 cfs 0.082 af

Pond 105: AD#105 Peak Elev=298.10' Inflow=0.81 cfs 0.067 af
8.0" Round Culvert n=0.013 L=53.8' S=0.0400 '/' Outflow=0.81 cfs 0.067 af

Pond 106: AD#106 Peak Elev=300.35' Inflow=0.63 cfs 0.052 af
8.0" Round Culvert n=0.013 L=55.9' S=0.0401 '/' Outflow=0.63 cfs 0.052 af

Pond 107: AD#107 Peak Elev=303.27' Inflow=0.45 cfs 0.037 af
8.0" Round Culvert n=0.013 L=64.0' S=0.0450 '/' Outflow=0.45 cfs 0.037 af

Pond 108: AD#108 Peak Elev=306.14' Inflow=0.27 cfs 0.022 af
8.0" Round Culvert n=0.013 L=64.5' S=0.0448 '/' Outflow=0.27 cfs 0.022 af

Pond 109: AD#109 Peak Elev=308.85' Inflow=0.09 cfs 0.007 af
8.0" Round Culvert n=0.013 L=49.9' S=0.0549 '/' Outflow=0.09 cfs 0.007 af

Pond CB11: CB#11 Peak Elev=312.37' Inflow=4.58 cfs 0.364 af
18.0" Round Culvert n=0.013 L=30.3' S=0.0050 '/' Outflow=4.58 cfs 0.364 af

Pond CB110: CB#110 Peak Elev=312.37' Inflow=1.20 cfs 0.095 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0050 '/' Outflow=1.20 cfs 0.095 af

Pond CB12: CB#12 Peak Elev=313.76' Inflow=2.30 cfs 0.184 af
15.0" Round Culvert n=0.013 L=106.0' S=0.0263 '/' Outflow=2.30 cfs 0.184 af

Pond CB120: CB#120 Peak Elev=314.05' Inflow=1.66 cfs 0.131 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0100 '/' Outflow=1.66 cfs 0.131 af

Pond CB14: CB#14 Peak Elev=308.83' Inflow=3.61 cfs 0.851 af
15.0" Round Culvert n=0.013 L=37.9' S=0.0150 '/' Outflow=3.61 cfs 0.851 af

Pond CB15: CB#15 Peak Elev=308.14' Inflow=3.67 cfs 0.865 af
15.0" Round Culvert n=0.013 L=120.0' S=0.0539 '/' Outflow=3.67 cfs 0.865 af

Pond CB170: CB#170 Peak Elev=278.67' Inflow=2.39 cfs 0.197 af
15.0" Round Culvert n=0.013 L=36.7' S=0.0199 '/' Outflow=2.39 cfs 0.197 af

Pond CB171: CB#171 Peak Elev=279.00' Inflow=1.95 cfs 0.160 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0100 '/' Outflow=1.95 cfs 0.160 af

Pond CB19: CB #19 Peak Elev=278.06' Inflow=6.44 cfs 0.550 af
18.0" Round Culvert n=0.013 L=33.8' S=0.0151 '/' Outflow=6.44 cfs 0.550 af

Pond CB20: CB #20 Peak Elev=278.53' Inflow=5.44 cfs 0.465 af
18.0" Round Culvert n=0.013 L=22.0' S=0.0200 '/' Outflow=5.44 cfs 0.465 af

Pond CB201: CB#201 Peak Elev=292.83' Inflow=2.16 cfs 0.169 af
15.0" Round Culvert n=0.013 L=82.0' S=0.0052 '/' Outflow=2.16 cfs 0.169 af

Pond CB3: CB#3 Peak Elev=293.40' Inflow=4.72 cfs 0.395 af
15.0" Round Culvert n=0.013 L=80.0' S=0.0100 '/' Outflow=4.72 cfs 0.395 af

Pond CB30: CB#30 Peak Elev=293.44' Inflow=1.25 cfs 0.103 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0050 '/' Outflow=1.25 cfs 0.103 af

Pond CB4: CB#4 Peak Elev=295.05' Inflow=2.56 cfs 0.214 af
15.0" Round Culvert n=0.013 L=80.9' S=0.0205 '/' Outflow=2.56 cfs 0.214 af

Pond CB5: CB#5 Peak Elev=295.32' Inflow=1.73 cfs 0.145 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0100 '/' Outflow=1.73 cfs 0.145 af

Pond CB80: CB#80 Peak Elev=312.38' Inflow=2.09 cfs 0.169 af
15.0" Round Culvert n=0.013 L=15.1' S=0.0053 '/' Outflow=2.09 cfs 0.169 af

Pond CB800: CB#800 Peak Elev=312.38' Inflow=0.89 cfs 0.073 af
15.0" Round Culvert n=0.013 L=22.7' S=0.0048 '/' Outflow=0.89 cfs 0.073 af

Pond CB9: CB#9 Peak Elev=314.91' Inflow=2.87 cfs 0.231 af
15.0" Round Culvert n=0.013 L=203.6' S=0.0174 '/' Outflow=2.87 cfs 0.231 af

Pond CB90: CB#90 Peak Elev=315.24' Inflow=0.97 cfs 0.081 af
15.0" Round Culvert n=0.013 L=29.8' S=0.0201 '/' Outflow=0.97 cfs 0.081 af

Pond DMH111: DMH#111 Peak Elev=312.35' Inflow=4.58 cfs 0.364 af
24.0" Round Culvert n=0.013 L=40.3' S=0.0050 '/' Outflow=4.58 cfs 0.364 af

Pond DMH17: DMH#17 Peak Elev=276.23' Inflow=8.74 cfs 0.747 af
24.0" Round Culvert n=0.013 L=279.8' S=0.0100 '/' Outflow=8.74 cfs 0.747 af

Pond DMH18: DMH#18 Peak Elev=277.38' Inflow=6.44 cfs 0.550 af
18.0" Round Culvert n=0.013 L=71.6' S=0.0149 '/' Outflow=6.44 cfs 0.550 af

Pond DMH2: DMH#2 Peak Elev=292.81' Inflow=4.72 cfs 0.395 af
18.0" Round Culvert n=0.013 L=50.2' S=0.0030 '/' Outflow=4.72 cfs 0.395 af

Pond DMH8: DMH#8 Peak Elev=312.37' Inflow=4.96 cfs 0.400 af
18.0" Round Culvert n=0.013 L=13.4' S=0.0052 '/' Outflow=4.96 cfs 0.400 af

Link A: Western Shadowbrook Drive Treatment Area Inflow=6.25 cfs 0.979 af
Primary=6.25 cfs 0.979 af

Link B: pond at beginning of neighborhood Inflow=4.78 cfs 1.051 af
Primary=4.78 cfs 1.051 af

Link C: Wetlands Inflow=10.94 cfs 1.531 af
Primary=10.94 cfs 1.531 af

Total Runoff Area = 20.68 ac Runoff Volume = 3.843 af Average Runoff Depth = 2.23"
70.94% Pervious = 14.67 ac 29.06% Impervious = 6.01 ac

Summary for Subcatchment 1S: Flow to Tammy Court

Runoff = 3.46 cfs @ 12.09 hrs, Volume= 0.263 af, Depth> 2.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
3,365	98	Roofs, HSG D
6,582	98	Roofs, HSG A
34,775	80	>75% Grass cover, Good, HSG D
8,430	39	>75% Grass cover, Good, HSG A
4,407	77	Woods, Good, HSG D
57,559		Weighted Average
47,612		82.72% Pervious Area
9,947		17.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	50	0.6600	0.57		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.6	213	0.6600	5.69		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.1	263	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2S: Shadowbrook Dr CB1

Runoff = 0.52 cfs @ 12.09 hrs, Volume= 0.042 af, Depth> 2.91"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
4,085	98	Paved parking, HSG A
240	98	Roofs, HSG D
1,432	80	>75% Grass cover, Good, HSG D
1,789	39	>75% Grass cover, Good, HSG A
7,546		Weighted Average
3,221		42.68% Pervious Area
4,325		57.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.5	250	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 3S: Shadowbrook Dr CB2

Runoff = 1.11 cfs @ 12.12 hrs, Volume= 0.091 af, Depth> 1.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
257	98	Roofs, HSG A
6,196	80	>75% Grass cover, Good, HSG D
5,530	39	>75% Grass cover, Good, HSG A
10,329	77	Woods, Good, HSG D
405	30	Woods, Good, HSG A
1,946	98	Paved parking, HSG A
24,663		Weighted Average
22,460		91.07% Pervious Area
2,203		8.93% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
1.9	226	0.1500	1.94		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.3	48	0.1300	2.52		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.1	20	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
8.6	344	Total			

Summary for Subcatchment 4S: Flow to Shadowbrook Dr CBs

Runoff = 0.82 cfs @ 12.09 hrs, Volume= 0.064 af, Depth> 2.95"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
2,537	80	>75% Grass cover, Good, HSG D
400	39	>75% Grass cover, Good, HSG A
0	74	>75% Grass cover, Good, HSG C
4,345	98	Paved parking, HSG A
4,030	77	Woods, Good, HSG D
11,312		Weighted Average
6,967		61.59% Pervious Area
4,345		38.41% Impervious Area

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

Summary for Subcatchment 5S: Canterberry Court Flow

Runoff = 0.57 cfs @ 12.09 hrs, Volume= 0.053 af, Depth> 0.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
1,564	98	Roofs, HSG A
30,607	39	>75% Grass cover, Good, HSG A
4,241	98	Paved parking, HSG A
36,412		Weighted Average
30,607		84.06% Pervious Area
5,805		15.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.7	137	0.2000	3.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.3	187	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 6S: Lower Shadowbrook Dr Flow

Runoff = 0.90 cfs @ 12.09 hrs, Volume= 0.087 af, Depth> 0.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
1,440	98	Roofs, HSG A
3,236	30	Woods, Good, HSG A
60,250	39	>75% Grass cover, Good, HSG A
7,789	98	Paved parking, HSG A
72,715		Weighted Average
63,486		87.31% Pervious Area
9,229		12.69% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.1	38	0.4500	4.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	49	0.3600	3.00		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
3.0	137	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 7S: Rear Overland Flow to Wetland

Runoff = 3.20 cfs @ 12.17 hrs, Volume= 0.290 af, Depth> 1.78"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
2,935	98	Roofs, HSG D
2,417	98	Roofs, HSG A
118	98	Roofs, HSG C
10,710	80	>75% Grass cover, Good, HSG D
8,039	39	>75% Grass cover, Good, HSG A
4,292	74	>75% Grass cover, Good, HSG C
19,271	77	Woods, Good, HSG D
26,053	70	Woods, Good, HSG C
11,193	55	Woods, Good, HSG B
85,028		Weighted Average
79,558		93.57% Pervious Area
5,470		6.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.8	50	0.0400	0.08		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
1.7	133	0.0650	1.27		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
11.5	183	Total			

Summary for Subcatchment 10S: Roadway Flow

Runoff = 0.97 cfs @ 12.09 hrs, Volume= 0.081 af, Depth> 3.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
3,052	98	Roofs, HSG A
12	80	>75% Grass cover, Good, HSG D
3,807	39	>75% Grass cover, Good, HSG A
506	98	Paved parking, HSG D
6,315	98	Roofs, HSG A
13,692		Weighted Average
3,819		27.89% Pervious Area
9,873		72.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0150	1.01		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.7	257	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.5	307	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11S: Roadway Flow

Runoff = 1.91 cfs @ 12.09 hrs, Volume= 0.150 af, Depth> 3.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
6,240	98	Roofs, HSG D
11,906	80	>75% Grass cover, Good, HSG D
2,142	39	>75% Grass cover, Good, HSG A
1,643	98	Roofs, HSG D
3,791	98	Roofs, HSG A
25,722		Weighted Average
14,048		54.61% Pervious Area
11,674		45.39% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	24	0.3300	0.37		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.3	26	0.0600	0.19		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.8	46	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.2	183	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
5.4	279	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 20S: Roadway Flow

Runoff = 0.17 cfs @ 12.09 hrs, Volume= 0.014 af, Depth> 2.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
396	98	Roofs, HSG D
993	80	>75% Grass cover, Good, HSG D
660	39	>75% Grass cover, Good, HSG A
725	98	Paved parking, HSG A
2,774		Weighted Average
1,653		59.59% Pervious Area
1,121		40.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	50	0.0500	0.20		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.1	15	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.2	65	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 21S: Roadway Flow

Runoff = 0.61 cfs @ 12.09 hrs, Volume= 0.049 af, Depth> 2.57"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
1,651	98	Roofs, HSG D
365	98	Roofs, HSG A
3,879	80	>75% Grass cover, Good, HSG D
2,296	39	>75% Grass cover, Good, HSG A
4	98	Paved parking, HSG D
1,709	98	Paved parking, HSG A
9,904		Weighted Average
6,175		62.35% Pervious Area
3,729		37.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	50	0.1200	0.29		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.9	98	0.0700	1.85		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	55	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.1	203	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 22S: Overland Flow to Pond

Runoff = 0.74 cfs @ 12.09 hrs, Volume= 0.057 af, Depth> 1.69"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
1,512	98	Roofs, HSG D
645	98	Roofs, HSG A
8,034	80	>75% Grass cover, Good, HSG D
7,400	39	>75% Grass cover, Good, HSG A
119	98	Paved parking, HSG A
17,710		Weighted Average
15,434		87.15% Pervious Area
2,276		12.85% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.2	47	0.2127	0.36		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.2	47	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 30S: Roadway Flow

Runoff = 1.20 cfs @ 12.09 hrs, Volume= 0.095 af, Depth> 3.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
4,540	98	Paved parking, HSG D
6,935	80	>75% Grass cover, Good, HSG D
65	39	>75% Grass cover, Good, HSG A
1,636	98	Paved parking, HSG D
1,538	98	Paved parking, HSG A
14,714		Weighted Average
7,000		47.57% Pervious Area
7,714		52.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
1.1	64	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.9	162	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.6	276	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 31S: Roadway Flow

Runoff = 1.08 cfs @ 12.09 hrs, Volume= 0.086 af, Depth> 2.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
2,626	98	Paved parking, HSG D
1,214	98	Paved parking, HSG A
6,749	80	>75% Grass cover, Good, HSG D
3,860	39	>75% Grass cover, Good, HSG A
2,745	98	Paved parking, HSG A
17,194		Weighted Average
10,609		61.70% Pervious Area
6,585		38.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.1	50	0.2800	0.40		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.3	60	0.2000	3.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	120	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
3.1	230	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 32S: Roadway Flow

Runoff = 1.66 cfs @ 12.09 hrs, Volume= 0.131 af, Depth> 3.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
5,015	98	Roofs, HSG D
8,256	80	>75% Grass cover, Good, HSG D
991	39	>75% Grass cover, Good, HSG A
1,964	98	Paved parking, HSG D
3,391	98	Paved parking, HSG A
2,034	77	Woods, Good, HSG D
21,651		Weighted Average
11,281		52.10% Pervious Area
10,370		47.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	40	0.2500	0.17		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
0.7	10	0.2000	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.3	63	0.3300	4.02		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.6	110	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
5.6	223	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 33S: Roadway Flow

Runoff = 0.64 cfs @ 12.09 hrs, Volume= 0.053 af, Depth> 2.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
948	98	Roofs, HSG D
395	98	Roofs, HSG A
1,701	80	>75% Grass cover, Good, HSG D
3,225	39	>75% Grass cover, Good, HSG A
4,087	98	Paved parking, HSG A
10,356		Weighted Average
4,926		47.57% Pervious Area
5,430		52.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.2	37	0.2000	3.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.0	170	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
3.8	257	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 40S: Roadway Flow

Runoff = 0.89 cfs @ 12.09 hrs, Volume= 0.073 af, Depth> 3.28"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
752	98	Roofs, HSG D
1,321	98	Roofs, HSG A
391	98	Roofs, HSG C
780	80	>75% Grass cover, Good, HSG D
2,326	39	>75% Grass cover, Good, HSG A
50	74	>75% Grass cover, Good, HSG C
1,115	98	Paved parking, HSG D
4,921	98	Paved parking, HSG A
30	98	Paved parking, HSG C
11,686		Weighted Average
3,156		27.01% Pervious Area
8,530		72.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0150	1.01		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.4	213	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	263	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 41S: Roadway Flow

Runoff = 1.21 cfs @ 12.10 hrs, Volume= 0.096 af, Depth> 3.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
2,949	98	Roofs, HSG D
157	98	Roofs, HSG A
8,262	80	>75% Grass cover, Good, HSG D
765	39	>75% Grass cover, Good, HSG A
1,393	98	Paved parking, HSG D
2,544	98	Paved parking, HSG A
16,070		Weighted Average
9,027		56.17% Pervious Area
7,043		43.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	40	0.0250	0.15		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.5	10	0.3300	0.31		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.6	80	0.1000	2.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.9	138	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
6.5	268	Total			

Summary for Subcatchment 42S: Flow to CB#200

Runoff = 2.16 cfs @ 12.09 hrs, Volume= 0.169 af, Depth> 2.95"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
1,682	39	>75% Grass cover, Good, HSG A
10,383	80	>75% Grass cover, Good, HSG D
3,530	74	>75% Grass cover, Good, HSG C
6,936	98	Paved parking, HSG A
2,228	77	Woods, Good, HSG D
170	98	Roofs, HSG A
90	98	Roofs, HSG C
2,670	98	Roofs, HSG D
1,237	98	Roofs, HSG A
994	98	Roofs, HSG C
29,920		Weighted Average
17,823		59.57% Pervious Area
12,097		40.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.2	335	0.0500	4.54		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.9	385	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 50S: Roadway Flow

Runoff = 0.74 cfs @ 12.09 hrs, Volume= 0.063 af, Depth> 2.54"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
5,295	39	>75% Grass cover, Good, HSG A
7,603	98	Paved parking, HSG A
12,898		Weighted Average
5,295		41.05% Pervious Area
7,603		58.95% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	50	0.0550	1.71		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.9	250	0.0500	4.54		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.4	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 51S: Roadway Flow

Runoff = 0.82 cfs @ 12.09 hrs, Volume= 0.069 af, Depth> 2.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
3,027	98	Roofs, HSG A
4,496	39	>75% Grass cover, Good, HSG A
5,392	98	Paved parking, HSG A
12,915		Weighted Average
4,496		34.81% Pervious Area
8,419		65.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	50	0.0800	0.25		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.6	76	0.0900	2.10		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.1	37	0.0500	4.54		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.1	163	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 60S: Roadway and Building Flow

Runoff = 0.91 cfs @ 12.09 hrs, Volume= 0.078 af, Depth> 1.78"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
3,213	98	Roofs, HSG A
13,675	39	>75% Grass cover, Good, HSG A
6,124	98	Paved parking, HSG A
23,012		Weighted Average
13,675		59.43% Pervious Area
9,337		40.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.6	155	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.1	15	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
5.3	220	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 61S: Roadway Flow

Runoff = 0.62 cfs @ 12.09 hrs, Volume= 0.051 af, Depth> 3.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
1,253	39	>75% Grass cover, Good, HSG A
6,311	98	Paved parking, HSG A
7,564		Weighted Average
1,253		16.57% Pervious Area
6,311		83.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.6	102	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.3	152	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 62S: Bioretention Pond Area

Runoff = 0.00 cfs @ 14.75 hrs, Volume= 0.001 af, Depth> 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
6,453	39	>75% Grass cover, Good, HSG A
6,453		100.00% Pervious Area

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

Summary for Subcatchment 70S: Overland Flow to Detention Pond

Runoff = 5.35 cfs @ 12.21 hrs, Volume= 0.504 af, Depth> 2.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
607	98	Roofs, HSG D
1,192	98	Roofs, HSG A
24,819	80	>75% Grass cover, Good, HSG D
13,185	39	>75% Grass cover, Good, HSG A
89,055	77	Woods, Good, HSG D
128,858		Weighted Average
127,059		98.60% Pervious Area
1,799		1.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0800	0.11		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
3.6	391	0.1300	1.80		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
3.5	304	0.0430	1.45		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
14.6	745	Total			

Summary for Subcatchment 71S: Roadway Flow

Runoff = 1.95 cfs @ 12.09 hrs, Volume= 0.160 af, Depth> 3.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
2,572	98	Roofs, HSG D
3,565	98	Roofs, HSG A
3,581	80	>75% Grass cover, Good, HSG D
5,385	39	>75% Grass cover, Good, HSG A
1,533	98	Paved parking, HSG D
9,859	98	Paved parking, HSG A
26,495		Weighted Average
8,966		33.84% Pervious Area
17,529		66.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	50	0.0800	0.25		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
1.5	250	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.9	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 72S: House Flow to Pond

Runoff = 2.24 cfs @ 12.09 hrs, Volume= 0.187 af, Depth> 1.99"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
2,848	98	Roofs, HSG D
9,725	98	Roofs, HSG A
23,884	39	>75% Grass cover, Good, HSG A
4,734	80	>75% Grass cover, Good, HSG D
1,216	74	>75% Grass cover, Good, HSG C
1,330	98	Paved parking, HSG D
5,294	98	Paved parking, HSG A
49,031		Weighted Average
29,834		60.85% Pervious Area
19,197		39.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.3	77	0.3100	3.90		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.0	127	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 73S: Roadway Flow

Runoff = 0.45 cfs @ 12.09 hrs, Volume= 0.037 af, Depth> 3.28"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
1,375	39	>75% Grass cover, Good, HSG A
4,557	98	Paved parking, HSG A
5,932		Weighted Average
1,375		23.18% Pervious Area
4,557		76.82% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.9	150	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.6	200	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 74S: Area in Circle to Infiltration Pond

Runoff = 0.80 cfs @ 12.09 hrs, Volume= 0.066 af, Depth> 1.96"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
4,851	98	Roofs, HSG A
8,558	39	>75% Grass cover, Good, HSG A
1,547	98	Roofs, HSG D
248	98	Roofs, HSG C
1,588	80	>75% Grass cover, Good, HSG D
864	74	>75% Grass cover, Good, HSG C
17,656		Weighted Average
11,010		62.36% Pervious Area
6,646		37.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	40	0.1000	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.6	40	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 75S: Roadway Flow

Runoff = 1.04 cfs @ 12.09 hrs, Volume= 0.085 af, Depth> 3.27"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
295	98	Roofs, HSG D
1,380	98	Roofs, HSG A
2,209	80	>75% Grass cover, Good, HSG D
2,224	39	>75% Grass cover, Good, HSG A
4,186	98	Paved parking, HSG D
3,345	98	Paved parking, HSG A
13,639		Weighted Average
4,433		32.50% Pervious Area
9,206		67.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.8	146	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.5	196	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 76S: Roadway Flow

Runoff = 5.44 cfs @ 12.13 hrs, Volume= 0.465 af, Depth> 2.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
14,560	98	Roofs, HSG D
1,133	98	Roofs, HSG A
24,384	80	>75% Grass cover, Good, HSG D
10,102	39	>75% Grass cover, Good, HSG A
31,709	77	Woods, Good, HSG D
7,686	98	Paved parking, HSG D
3,446	98	Paved parking, HSG A
93,020		Weighted Average
66,195		71.16% Pervious Area
26,825		28.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
0.9	130	0.2150	2.32		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
1.0	120	0.0830	2.02		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.8	168	0.0300	3.52		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
9.0	468	Total			

Summary for Subcatchment 100S: Unit 1

Runoff = 0.09 cfs @ 12.09 hrs, Volume= 0.007 af, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
920	98	Roofs, HSG A
920		100.00% Impervious Area

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

Summary for Subcatchment 101S: Units 2 & 3

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 102S: Units 4 & 5

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 103S: Units 6 & 7

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 104S: Units 8 & 9

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 105S: Units 11 & 10

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 106S: Units 13 & 12

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 107S: Units 15 & 14

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 108S: Units 17 & 16

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 109S: Unit 18

Runoff = 0.09 cfs @ 12.09 hrs, Volume= 0.007 af, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=4.47"

Area (sf)	CN	Description
920	98	Roofs, HSG A
920		100.00% Impervious Area

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

Summary for Reach 1R: Tammy Court

Inflow Area = 1.32 ac, 17.28% Impervious, Inflow Depth > 2.38" for 10-yr event
Inflow = 3.46 cfs @ 12.09 hrs, Volume= 0.263 af
Outflow = 3.46 cfs @ 12.09 hrs, Volume= 0.263 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 2R: Ex CB1

Inflow Area = 3.88 ac, 46.55% Impervious, Inflow Depth > 2.80" for 10-yr event
Inflow = 3.86 cfs @ 12.34 hrs, Volume= 0.907 af
Outflow = 3.86 cfs @ 12.34 hrs, Volume= 0.907 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 3R: Ex CB 2

Inflow Area = 0.57 ac, 8.93% Impervious, Inflow Depth > 1.93" for 10-yr event
Inflow = 1.11 cfs @ 12.12 hrs, Volume= 0.091 af
Outflow = 1.11 cfs @ 12.12 hrs, Volume= 0.091 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 4R: Upper Shadowbrook Drive Drainage

Inflow Area = 2.77 ac, 53.61% Impervious, Inflow Depth > 2.73" for 10-yr event
Inflow = 3.09 cfs @ 12.29 hrs, Volume= 0.630 af
Outflow = 3.09 cfs @ 12.29 hrs, Volume= 0.630 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 5R: Canterberry Ct Drainage

Inflow Area = 0.84 ac, 15.94% Impervious, Inflow Depth > 0.76" for 10-yr event
Inflow = 0.57 cfs @ 12.09 hrs, Volume= 0.053 af
Outflow = 0.57 cfs @ 12.09 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 6R: Lower Shadowbrook Dr CB

Inflow Area = 1.67 ac, 12.69% Impervious, Inflow Depth > 0.62" for 10-yr event
Inflow = 0.90 cfs @ 12.09 hrs, Volume= 0.087 af
Outflow = 0.90 cfs @ 12.09 hrs, Volume= 0.087 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Pond 1P: Bioretention Pond #1

Inflow Area = 2.51 ac, 55.18% Impervious, Inflow Depth > 2.71" for 10-yr event
Inflow = 6.88 cfs @ 12.09 hrs, Volume= 0.566 af
Outflow = 2.74 cfs @ 12.32 hrs, Volume= 0.566 af, Atten= 60%, Lag= 13.7 min
Primary = 2.74 cfs @ 12.32 hrs, Volume= 0.566 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 292.77' @ 12.32 hrs Surf.Area= 3,784 sf Storage= 7,995 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 83.9 min (847.1 - 763.2)

Volume	Invert	Avail.Storage	Storage Description
#1	288.00'	13,264 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
288.00	434	0	0
290.00	1,140	1,574	1,574
291.00	1,598	1,369	2,943
292.00	3,160	2,379	5,322
294.00	4,782	7,942	13,264

Device	Routing	Invert	Outlet Devices
#1	Secondary	293.80'	**4.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64
#2	Device 5	288.00'	**10.000 in/hr Exfiltration over Surface area**
#3	Device 5	292.10'	**15.0" Vert. Orifice/Grate** C= 0.600
#4	Device 5	293.50'	**48.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Primary	285.00'	**12.0" Round Culvert** L= 55.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 285.00' / 283.04' S= 0.0354 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.73 cfs @ 12.32 hrs HW=292.77' TW=0.00' (Dynamic Tailwater)
└─**5=Culvert** (Passes 2.73 cfs of 10.19 cfs potential flow)
  ├─**2=Exfiltration** (Exfiltration Controls 0.88 cfs)
  ├─**3=Orifice/Grate** (Orifice Controls 1.86 cfs @ 2.78 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=288.00' TW=0.00' (Dynamic Tailwater)
└─**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 2P: Pocket Pond #1

Inflow Area = 3.42 ac, 46.71% Impervious, Inflow Depth > 2.89" for 10-yr event
Inflow = 10.28 cfs @ 12.09 hrs, Volume= 0.821 af
Outflow = 3.40 cfs @ 12.39 hrs, Volume= 0.802 af, Atten= 67%, Lag= 18.1 min
Primary = 3.40 cfs @ 12.39 hrs, Volume= 0.802 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Starting Elev= 309.79' Surf.Area= 3,009 sf Storage= 5,826 cf
Peak Elev= 312.34' @ 12.39 hrs Surf.Area= 7,231 sf Storage= 18,642 cf (12,816 cf above start)

Plug-Flow detention time= 235.2 min calculated for 0.668 af (81% of inflow)
Center-of-Mass det. time= 103.4 min (878.6 - 775.2)

Volume	Invert	Avail.Storage	Storage Description
#1	306.00'	27,930 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
306.00	306	196.0	0	0	306
308.00	1,616	240.0	1,750	1,750	1,894
310.00	3,201	285.0	4,728	6,478	3,846
312.00	6,785	438.0	9,764	16,242	12,678
313.50	8,844	470.0	11,688	27,930	15,088

Device	Routing	Invert	Outlet Devices
#1	Device 4	309.80'	**4.5" Vert. Orifice/Grate** C= 0.600
#2	Device 4	311.50'	**14.0" Vert. Orifice/Grate** C= 0.600
#3	Device 4	313.10'	**48.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Primary	309.75'	**15.0" Round Culvert** L= 93.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 309.75' / 307.89' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.39 cfs @ 12.39 hrs HW=312.34' TW=308.83' (Dynamic Tailwater)
└─**4=Culvert** (Passes 3.39 cfs of 8.29 cfs potential flow)
  ├─**1=Orifice/Grate** (Orifice Controls 0.82 cfs @ 7.39 fps)
  ├─**2=Orifice/Grate** (Orifice Controls 2.58 cfs @ 3.12 fps)
  └─**3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 3P: Pocket Pond #2

Inflow Area = 6.15 ac, 22.36% Impervious, Inflow Depth > 2.44" for 10-yr event
Inflow = 13.02 cfs @ 12.14 hrs, Volume= 1.251 af
Outflow = 8.57 cfs @ 12.32 hrs, Volume= 1.233 af, Atten= 34%, Lag= 11.2 min
Primary = 8.57 cfs @ 12.32 hrs, Volume= 1.233 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Starting Elev= 271.98' Surf.Area= 2,847 sf Storage= 5,675 cf
Peak Elev= 274.69' @ 12.32 hrs Surf.Area= 5,502 sf Storage= 16,919 cf (11,245 cf above start)

Plug-Flow detention time= 114.0 min calculated for 1.101 af (88% of inflow)
Center-of-Mass det. time= 29.1 min (833.7 - 804.6)

Volume	Invert	Avail.Storage	Storage Description
#1	268.00'	25,013 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
268.00	408	0	0
269.00	790	599	599
270.00	1,250	1,020	1,619
272.00	2,863	4,113	5,732
274.00	4,762	7,625	13,357
276.00	6,894	11,656	25,013

Device	Routing	Invert	Outlet Devices
#1	Device 4	272.00'	**9.0" Vert. Orifice/Grate** C= 0.600
#2	Secondary	275.35'	**10.0' long x 4.0' 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) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32
#3	Device 4	273.80'	**24.0" W x 10.0" H Vert. Orifice/Grate** C= 0.600

#4	Primary	272.00'	**18.0" Round Culvert** L= 105.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 272.00' / 271.57' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#5	Primary	275.70'	**48.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=8.53 cfs @ 12.32 hrs HW=274.69' TW=0.00' (Dynamic Tailwater)
- **4=Culvert** (Passes 8.53 cfs of 9.74 cfs potential flow)
  - **1=Orifice/Grate** (Orifice Controls 3.24 cfs @ 7.32 fps)
  - **3=Orifice/Grate** (Orifice Controls 5.29 cfs @ 3.18 fps)
- **5=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=271.98' TW=0.00' (Dynamic Tailwater)
- **2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 30P: Infiltration Pond #1

Inflow Area = 0.41 ac, 37.64% Impervious, Inflow Depth > 1.96" for 10-yr event
Inflow = 0.80 cfs @ 12.09 hrs, Volume= 0.066 af
Outflow = 0.05 cfs @ 13.81 hrs, Volume= 0.058 af, Atten= 94%, Lag= 103.4 min
Discarded = 0.05 cfs @ 13.81 hrs, Volume= 0.058 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 280.74' @ 13.81 hrs Surf.Area= 2,230 sf Storage= 1,278 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 171.7 min (942.3 - 770.6)

Volume	Invert	Avail.Storage	Storage Description
#1	280.00'	5,166 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
280.00	1,214	0	0
282.00	3,952	5,166	5,166

Device	Routing	Invert	Outlet Devices
#1	Discarded	280.00'	**1.000 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.05 cfs @ 13.81 hrs HW=280.74' (Free Discharge)
- **1=Exfiltration** (Exfiltration Controls 0.05 cfs)

Summary for Pond 31P: Infiltration Pond #2

Inflow Area = 1.13 ac, 39.15% Impervious, Inflow Depth > 1.99" for 10-yr event
Inflow = 2.24 cfs @ 12.09 hrs, Volume= 0.187 af
Outflow = 0.12 cfs @ 14.28 hrs, Volume= 0.132 af, Atten= 95%, Lag= 131.2 min
Discarded = 0.09 cfs @ 14.28 hrs, Volume= 0.125 af
Primary = 0.03 cfs @ 14.28 hrs, Volume= 0.007 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 275.12' @ 14.28 hrs Surf.Area= 4,084 sf Storage= 3,993 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 151.9 min (920.6 - 768.7)

Volume	Invert	Avail.Storage	Storage Description
#1	274.00'	7,938 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
274.00	3,030	0	0
276.00	4,908	7,938	7,938

Device	Routing	Invert	Outlet Devices
#1	Device 3	275.00'	**3.0" Vert. Orifice/Grate** C= 0.600
#2	Discarded	274.00'	**1.000 in/hr Exfiltration over Surface area**
#3	Primary	274.16'	**15.0" Round Culvert** L= 32.2' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 274.16' / 274.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#4	Primary	276.40'	**24.0" x 24.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.09 cfs @ 14.28 hrs HW=275.12' (Free Discharge)
└**2=Exfiltration** (Exfiltration Controls 0.09 cfs)

Primary OutFlow Max=0.03 cfs @ 14.28 hrs HW=275.12' TW=0.00' (Dynamic Tailwater)
├**3=Culvert** (Passes 0.03 cfs of 2.53 cfs potential flow)
│└**1=Orifice/Grate** (Orifice Controls 0.03 cfs @ 1.19 fps)
└**4=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 100: AD#100

Inflow Area = 0.02 ac,100.00% Impervious, Inflow Depth > 4.23" for 10-yr event
Inflow = 0.09 cfs @ 12.09 hrs, Volume= 0.007 af
Outflow = 0.09 cfs @ 12.09 hrs, Volume= 0.007 af, Atten= 0%, Lag= 0.0 min
Primary = 0.09 cfs @ 12.09 hrs, Volume= 0.007 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.97' @ 12.09 hrs
Flood Elev= 297.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	295.81'	**8.0" Round Culvert** L= 58.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 295.81' / 294.35' S= 0.0251 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.09 cfs @ 12.09 hrs HW=295.97' TW=294.54' (Dynamic Tailwater)
└**1=Culvert** (Inlet Controls 0.09 cfs @ 1.36 fps)

Summary for Pond 101: AD#101

Inflow Area = 0.06 ac,100.00% Impervious, Inflow Depth > 4.23" for 10-yr event
Inflow = 0.27 cfs @ 12.09 hrs, Volume= 0.022 af
Outflow = 0.27 cfs @ 12.09 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
Primary = 0.27 cfs @ 12.09 hrs, Volume= 0.022 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 294.54' @ 12.09 hrs
Flood Elev= 297.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.25'	**8.0" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.25' / 292.40' S= 0.0500 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.26 cfs @ 12.09 hrs HW=294.54' TW=293.28' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.26 cfs @ 1.83 fps)

Summary for Pond 102: AD#102

Inflow Area = 0.08 ac,100.00% Impervious, Inflow Depth > 4.23" for 10-yr event
Inflow = 0.36 cfs @ 12.09 hrs, Volume= 0.030 af
Outflow = 0.36 cfs @ 12.09 hrs, Volume= 0.030 af, Atten= 0%, Lag= 0.0 min
Primary = 0.36 cfs @ 12.09 hrs, Volume= 0.030 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 293.48' @ 12.19 hrs
Flood Elev= 297.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	292.95'	**8.0" Round Culvert** L= 27.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.95' / 292.40' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.18 cfs @ 12.09 hrs HW=293.35' TW=293.28' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.18 cfs @ 1.19 fps)

Summary for Pond 103: AD#103

Inflow Area = 0.04 ac,100.00% Impervious, Inflow Depth > 4.23" for 10-yr event
Inflow = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af
Outflow = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 294.46' @ 12.09 hrs
Flood Elev= 297.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.23'	**8.0" Round Culvert** L= 59.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.23' / 293.05' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.18 cfs @ 12.09 hrs HW=294.46' TW=293.35' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.18 cfs @ 1.64 fps)

Summary for Pond 104: AD#104

Inflow Area = 0.23 ac,100.00% Impervious, Inflow Depth > 4.23" for 10-yr event
Inflow = 0.99 cfs @ 12.09 hrs, Volume= 0.082 af
Outflow = 0.99 cfs @ 12.09 hrs, Volume= 0.082 af, Atten= 0%, Lag= 0.0 min
Primary = 0.99 cfs @ 12.09 hrs, Volume= 0.082 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.95' @ 12.09 hrs
Flood Elev= 299.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	295.27'	**8.0" Round Culvert** L= 16.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 295.27' / 294.66' S= 0.0367 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.97 cfs @ 12.09 hrs HW=295.93' TW=295.30' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.97 cfs @ 2.77 fps)

Summary for Pond 105: AD#105

Inflow Area = 0.19 ac,100.00% Impervious, Inflow Depth > 4.23" for 10-yr event
Inflow = 0.81 cfs @ 12.09 hrs, Volume= 0.067 af
Outflow = 0.81 cfs @ 12.09 hrs, Volume= 0.067 af, Atten= 0%, Lag= 0.0 min
Primary = 0.81 cfs @ 12.09 hrs, Volume= 0.067 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 298.10' @ 12.09 hrs
Flood Elev= 301.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	297.53'	**8.0" Round Culvert** L= 53.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 297.53' / 295.38' S= 0.0400 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.79 cfs @ 12.09 hrs HW=298.09' TW=295.93' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.79 cfs @ 2.54 fps)

Summary for Pond 106: AD#106

Inflow Area = 0.15 ac,100.00% Impervious, Inflow Depth > 4.23" for 10-yr event
Inflow = 0.63 cfs @ 12.09 hrs, Volume= 0.052 af
Outflow = 0.63 cfs @ 12.09 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.0 min
Primary = 0.63 cfs @ 12.09 hrs, Volume= 0.052 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 300.35' @ 12.09 hrs
Flood Elev= 303.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	299.87'	**8.0" Round Culvert** L= 55.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 299.87' / 297.63' S= 0.0401 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.61 cfs @ 12.09 hrs HW=300.34' TW=298.09' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.61 cfs @ 2.33 fps)

Summary for Pond 107: AD#107

Inflow Area = 0.11 ac,100.00% Impervious, Inflow Depth > 4.23" for 10-yr event
Inflow = 0.45 cfs @ 12.09 hrs, Volume= 0.037 af
Outflow = 0.45 cfs @ 12.09 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.0 min
Primary = 0.45 cfs @ 12.09 hrs, Volume= 0.037 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 303.27' @ 12.09 hrs
Flood Elev= 306.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	302.85'	**8.0" Round Culvert** L= 64.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 302.85' / 299.97' S= 0.0450 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.44 cfs @ 12.09 hrs HW=303.26' TW=300.34' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.44 cfs @ 1.93 fps)

Summary for Pond 108: AD#108

Inflow Area = 0.06 ac,100.00% Impervious, Inflow Depth > 4.23" for 10-yr event
Inflow = 0.27 cfs @ 12.09 hrs, Volume= 0.022 af
Outflow = 0.27 cfs @ 12.09 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
Primary = 0.27 cfs @ 12.09 hrs, Volume= 0.022 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 306.14' @ 12.09 hrs
Flood Elev= 309.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	305.85'	**8.0" Round Culvert** L= 64.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 305.85' / 302.96' S= 0.0448 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.26 cfs @ 12.09 hrs HW=306.14' TW=303.26' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.26 cfs @ 1.83 fps)

Summary for Pond 109: AD#109

Inflow Area = 0.02 ac,100.00% Impervious, Inflow Depth > 4.23" for 10-yr event
Inflow = 0.09 cfs @ 12.09 hrs, Volume= 0.007 af
Outflow = 0.09 cfs @ 12.09 hrs, Volume= 0.007 af, Atten= 0%, Lag= 0.0 min
Primary = 0.09 cfs @ 12.09 hrs, Volume= 0.007 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 308.85' @ 12.09 hrs
Flood Elev= 311.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	308.69'	**8.0" Round Culvert** L= 49.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 308.69' / 305.95' S= 0.0549 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.09 cfs @ 12.09 hrs HW=308.85' TW=306.14' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.09 cfs @ 1.36 fps)

Summary for Pond CB11: CB#11

Inflow Area = 1.47 ac, 47.09% Impervious, Inflow Depth > 2.98" for 10-yr event
Inflow = 4.58 cfs @ 12.09 hrs, Volume= 0.364 af
Outflow = 4.58 cfs @ 12.09 hrs, Volume= 0.364 af, Atten= 0%, Lag= 0.0 min
Primary = 4.58 cfs @ 12.09 hrs, Volume= 0.364 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.37' @ 12.45 hrs
Flood Elev= 314.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.04'	**18.0" Round Culvert** L= 30.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.04' / 309.89' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.21 cfs @ 12.09 hrs HW=311.78' TW=311.71' (Dynamic Tailwater)
1=Culvert (Inlet Controls 2.21 cfs @ 1.25 fps)

Summary for Pond CB110: CB#110

Inflow Area = 0.34 ac, 52.43% Impervious, Inflow Depth > 3.37" for 10-yr event
Inflow = 1.20 cfs @ 12.09 hrs, Volume= 0.095 af
Outflow = 1.20 cfs @ 12.09 hrs, Volume= 0.095 af, Atten= 0%, Lag= 0.0 min
Primary = 1.20 cfs @ 12.09 hrs, Volume= 0.095 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.37' @ 12.50 hrs
Flood Elev= 314.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.25'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.25' / 310.14' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=311.58' TW=311.78' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB12: CB#12

Inflow Area = 0.73 ac, 49.36% Impervious, Inflow Depth > 3.00" for 10-yr event
Inflow = 2.30 cfs @ 12.09 hrs, Volume= 0.184 af
Outflow = 2.30 cfs @ 12.09 hrs, Volume= 0.184 af, Atten= 0%, Lag= 0.0 min
Primary = 2.30 cfs @ 12.09 hrs, Volume= 0.184 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 313.76' @ 12.09 hrs
Flood Elev= 317.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	313.00'	**15.0" Round Culvert** L= 106.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 313.00' / 310.21' S= 0.0263 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.25 cfs @ 12.09 hrs HW=313.75' TW=311.77' (Dynamic Tailwater)
1=Culvert (Inlet Controls 2.25 cfs @ 2.94 fps)

Summary for Pond CB120: CB#120

Inflow Area = 0.50 ac, 47.90% Impervious, Inflow Depth > 3.16" for 10-yr event
Inflow = 1.66 cfs @ 12.09 hrs, Volume= 0.131 af
Outflow = 1.66 cfs @ 12.09 hrs, Volume= 0.131 af, Atten= 0%, Lag= 0.0 min
Primary = 1.66 cfs @ 12.09 hrs, Volume= 0.131 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 314.05' @ 12.11 hrs
Flood Elev= 317.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	313.32'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 313.32' / 313.10' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.49 cfs @ 12.09 hrs HW=314.03' TW=313.75' (Dynamic Tailwater)
└**1=Culvert** (Outlet Controls 1.49 cfs @ 2.97 fps)

Summary for Pond CB14: CB#14

Inflow Area = 3.64 ac, 46.14% Impervious, Inflow Depth > 2.80" for 10-yr event
Inflow = 3.61 cfs @ 12.37 hrs, Volume= 0.851 af
Outflow = 3.61 cfs @ 12.37 hrs, Volume= 0.851 af, Atten= 0%, Lag= 0.0 min
Primary = 3.61 cfs @ 12.37 hrs, Volume= 0.851 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 308.83' @ 12.38 hrs
Flood Elev= 312.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	307.79'	**15.0" Round Culvert** L= 37.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 307.79' / 307.22' S= 0.0150 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.59 cfs @ 12.37 hrs HW=308.83' TW=308.14' (Dynamic Tailwater)
└**1=Culvert** (Outlet Controls 3.59 cfs @ 4.46 fps)

Summary for Pond CB15: CB#15

Inflow Area = 3.71 ac, 46.04% Impervious, Inflow Depth > 2.80" for 10-yr event
Inflow = 3.67 cfs @ 12.36 hrs, Volume= 0.865 af
Outflow = 3.67 cfs @ 12.36 hrs, Volume= 0.865 af, Atten= 0%, Lag= 0.0 min
Primary = 3.67 cfs @ 12.36 hrs, Volume= 0.865 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 308.14' @ 12.36 hrs
Flood Elev= 312.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	307.12'	**15.0" Round Culvert** L= 120.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 307.12' / 300.65' S= 0.0539 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.67 cfs @ 12.36 hrs HW=308.14' TW=0.00' (Dynamic Tailwater)
└**1=Culvert** (Inlet Controls 3.67 cfs @ 3.43 fps)

Summary for Pond CB170: CB#170

Inflow Area = 0.74 ac, 68.11% Impervious, Inflow Depth > 3.17" for 10-yr event
Inflow = 2.39 cfs @ 12.09 hrs, Volume= 0.197 af
Outflow = 2.39 cfs @ 12.09 hrs, Volume= 0.197 af, Atten= 0%, Lag= 0.0 min
Primary = 2.39 cfs @ 12.09 hrs, Volume= 0.197 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 278.67' @ 12.09 hrs
Flood Elev= 281.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	277.90'	**15.0" Round Culvert** L= 36.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 277.90' / 277.17' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.33 cfs @ 12.09 hrs HW=278.66' TW=276.18' (Dynamic Tailwater)
1=Culvert (Inlet Controls 2.33 cfs @ 2.97 fps)

Summary for Pond CB171: CB#171

Inflow Area = 0.61 ac, 66.16% Impervious, Inflow Depth > 3.15" for 10-yr event
Inflow = 1.95 cfs @ 12.09 hrs, Volume= 0.160 af
Outflow = 1.95 cfs @ 12.09 hrs, Volume= 0.160 af, Atten= 0%, Lag= 0.0 min
Primary = 1.95 cfs @ 12.09 hrs, Volume= 0.160 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 279.00' @ 12.10 hrs
Flood Elev= 281.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.22'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 278.22' / 278.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.77 cfs @ 12.09 hrs HW=278.99' TW=278.66' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.77 cfs @ 3.20 fps)

Summary for Pond CB19: CB #19

Inflow Area = 2.45 ac, 33.78% Impervious, Inflow Depth > 2.70" for 10-yr event
Inflow = 6.44 cfs @ 12.12 hrs, Volume= 0.550 af
Outflow = 6.44 cfs @ 12.12 hrs, Volume= 0.550 af, Atten= 0%, Lag= 0.0 min
Primary = 6.44 cfs @ 12.12 hrs, Volume= 0.550 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 278.06' @ 12.14 hrs
Flood Elev= 281.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.67'	**18.0" Round Culvert** L= 33.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 276.67' / 276.16' S= 0.0151 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.83 cfs @ 12.12 hrs HW=278.01' TW=277.35' (Dynamic Tailwater)
1=Culvert (Outlet Controls 5.83 cfs @ 4.61 fps)

Summary for Pond CB20: CB #20

Inflow Area = 2.14 ac, 28.84% Impervious, Inflow Depth > 2.61" for 10-yr event
Inflow = 5.44 cfs @ 12.13 hrs, Volume= 0.465 af
Outflow = 5.44 cfs @ 12.13 hrs, Volume= 0.465 af, Atten= 0%, Lag= 0.0 min
Primary = 5.44 cfs @ 12.13 hrs, Volume= 0.465 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 278.53' @ 12.16 hrs
Flood Elev= 281.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	277.21'	**18.0" Round Culvert** L= 22.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 277.21' / 276.77' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.73 cfs @ 12.13 hrs HW=278.48' TW=278.03' (Dynamic Tailwater)
1=Culvert (Outlet Controls 4.73 cfs @ 3.99 fps)

Summary for Pond CB201: CB#201

Inflow Area = 0.69 ac, 40.43% Impervious, Inflow Depth > 2.95" for 10-yr event
Inflow = 2.16 cfs @ 12.09 hrs, Volume= 0.169 af
Outflow = 2.16 cfs @ 12.09 hrs, Volume= 0.169 af, Atten= 0%, Lag= 0.0 min
Primary = 2.16 cfs @ 12.09 hrs, Volume= 0.169 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 292.83' @ 12.32 hrs
Flood Elev= 300.43'

Device	Routing	Invert	Outlet Devices
#1	Primary	291.88'	**15.0" Round Culvert** L= 82.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 291.88' / 291.45' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.74 cfs @ 12.09 hrs HW=292.71' TW=292.27' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.74 cfs @ 2.86 fps)

Summary for Pond CB3: CB#3

Inflow Area = 1.67 ac, 66.11% Impervious, Inflow Depth > 2.83" for 10-yr event
Inflow = 4.72 cfs @ 12.09 hrs, Volume= 0.395 af
Outflow = 4.72 cfs @ 12.09 hrs, Volume= 0.395 af, Atten= 0%, Lag= 0.0 min
Primary = 4.72 cfs @ 12.09 hrs, Volume= 0.395 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 293.40' @ 12.10 hrs
Flood Elev= 296.31'

Device	Routing	Invert	Outlet Devices
#1	Primary	292.09'	**15.0" Round Culvert** L= 80.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.09' / 291.29' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=4.35 cfs @ 12.09 hrs HW=293.36' TW=292.51' (Dynamic Tailwater)
1=Culvert (Outlet Controls 4.35 cfs @ 4.32 fps)

Summary for Pond CB30: CB#30

Inflow Area = 0.32 ac, 91.05% Impervious, Inflow Depth > 3.86" for 10-yr event
Inflow = 1.25 cfs @ 12.09 hrs, Volume= 0.103 af
Outflow = 1.25 cfs @ 12.09 hrs, Volume= 0.103 af, Atten= 0%, Lag= 0.0 min
Primary = 1.25 cfs @ 12.09 hrs, Volume= 0.103 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 293.44' @ 12.15 hrs
Flood Elev= 296.31'

Device	Routing	Invert	Outlet Devices
#1	Primary	292.30'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.30' / 292.19' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=293.28' TW=293.36' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB4: CB#4

Inflow Area = 0.82 ac, 72.75% Impervious, Inflow Depth > 3.11" for 10-yr event
Inflow = 2.56 cfs @ 12.09 hrs, Volume= 0.214 af
Outflow = 2.56 cfs @ 12.09 hrs, Volume= 0.214 af, Atten= 0%, Lag= 0.0 min
Primary = 2.56 cfs @ 12.09 hrs, Volume= 0.214 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.05' @ 12.09 hrs
Flood Elev= 298.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.24'	**15.0" Round Culvert** L= 80.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.24' / 292.58' S= 0.0205 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.49 cfs @ 12.09 hrs HW=295.03' TW=293.36' (Dynamic Tailwater)
1=Culvert (Inlet Controls 2.49 cfs @ 3.03 fps)

Summary for Pond CB5: CB#5

Inflow Area = 0.53 ac, 77.00% Impervious, Inflow Depth > 3.28" for 10-yr event
Inflow = 1.73 cfs @ 12.09 hrs, Volume= 0.145 af
Outflow = 1.73 cfs @ 12.09 hrs, Volume= 0.145 af, Atten= 0%, Lag= 0.0 min
Primary = 1.73 cfs @ 12.09 hrs, Volume= 0.145 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.32' @ 12.11 hrs
Flood Elev= 298.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.56'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.56' / 294.34' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.53 cfs @ 12.09 hrs HW=295.30' TW=295.03' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.53 cfs @ 2.89 fps)

Summary for Pond CB80: CB#80

Inflow Area = 0.64 ac, 56.11% Impervious, Inflow Depth > 3.18" for 10-yr event
Inflow = 2.09 cfs @ 12.09 hrs, Volume= 0.169 af
Outflow = 2.09 cfs @ 12.09 hrs, Volume= 0.169 af, Atten= 0%, Lag= 0.0 min
Primary = 2.09 cfs @ 12.09 hrs, Volume= 0.169 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.38' @ 12.44 hrs
Flood Elev= 314.01'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.06'	**15.0" Round Culvert** L= 15.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.06' / 309.98' S= 0.0053 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=311.79' TW=311.95' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB800: CB#800

Inflow Area = 0.27 ac, 72.99% Impervious, Inflow Depth > 3.28" for 10-yr event
Inflow = 0.89 cfs @ 12.09 hrs, Volume= 0.073 af
Outflow = 0.89 cfs @ 12.09 hrs, Volume= 0.073 af, Atten= 0%, Lag= 0.0 min
Primary = 0.89 cfs @ 12.09 hrs, Volume= 0.073 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.38' @ 12.49 hrs
Flood Elev= 314.01'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.27'	**15.0" Round Culvert** L= 22.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.27' / 310.16' S= 0.0048 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=311.47' TW=311.75' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB9: CB#9

Inflow Area = 0.90 ac, 54.67% Impervious, Inflow Depth > 3.07" for 10-yr event
Inflow = 2.87 cfs @ 12.09 hrs, Volume= 0.231 af
Outflow = 2.87 cfs @ 12.09 hrs, Volume= 0.231 af, Atten= 0%, Lag= 0.0 min
Primary = 2.87 cfs @ 12.09 hrs, Volume= 0.231 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 314.91' @ 12.09 hrs
Flood Elev= 317.43'

Device	Routing	Invert	Outlet Devices
#1	Primary	314.04'	**15.0" Round Culvert** L= 203.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 314.04' / 310.50' S= 0.0174 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.80 cfs @ 12.09 hrs HW=314.89' TW=311.93' (Dynamic Tailwater)
1=Culvert (Inlet Controls 2.80 cfs @ 3.14 fps)

Summary for Pond CB90: CB#90

Inflow Area = 0.31 ac, 72.11% Impervious, Inflow Depth > 3.08" for 10-yr event
Inflow = 0.97 cfs @ 12.09 hrs, Volume= 0.081 af
Outflow = 0.97 cfs @ 12.09 hrs, Volume= 0.081 af, Atten= 0%, Lag= 0.0 min
Primary = 0.97 cfs @ 12.09 hrs, Volume= 0.081 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 315.24' @ 12.10 hrs
Flood Elev= 317.72'

Device	Routing	Invert	Outlet Devices
#1	Primary	314.74'	**15.0" Round Culvert** L= 29.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 314.74' / 314.14' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.86 cfs @ 12.09 hrs HW=315.23' TW=314.89' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.86 cfs @ 2.85 fps)

Summary for Pond DMH111: DMH#111

Inflow Area = 1.47 ac, 47.09% Impervious, Inflow Depth > 2.98" for 10-yr event
Inflow = 4.58 cfs @ 12.09 hrs, Volume= 0.364 af
Outflow = 4.58 cfs @ 12.09 hrs, Volume= 0.364 af, Atten= 0%, Lag= 0.0 min
Primary = 4.58 cfs @ 12.09 hrs, Volume= 0.364 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.35' @ 12.43 hrs
Flood Elev= 314.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	309.79'	**24.0" Round Culvert** L= 40.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 309.79' / 309.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=311.71' TW=311.85' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond DMH17: DMH#17

Inflow Area = 3.19 ac, 41.78% Impervious, Inflow Depth > 2.81" for 10-yr event
Inflow = 8.74 cfs @ 12.11 hrs, Volume= 0.747 af
Outflow = 8.74 cfs @ 12.11 hrs, Volume= 0.747 af, Atten= 0%, Lag= 0.0 min
Primary = 8.74 cfs @ 12.11 hrs, Volume= 0.747 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 276.23' @ 12.12 hrs
Flood Elev= 279.48'

Device	Routing	Invert	Outlet Devices
#1	Primary	274.89'	**24.0" Round Culvert** L= 279.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 274.89' / 272.09' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=8.18 cfs @ 12.11 hrs HW=276.22' TW=274.08' (Dynamic Tailwater)
1=Culvert (Outlet Controls 8.18 cfs @ 5.25 fps)

Summary for Pond DMH18: DMH#18

Inflow Area = 2.45 ac, 33.78% Impervious, Inflow Depth > 2.70" for 10-yr event
Inflow = 6.44 cfs @ 12.12 hrs, Volume= 0.550 af
Outflow = 6.44 cfs @ 12.12 hrs, Volume= 0.550 af, Atten= 0%, Lag= 0.0 min
Primary = 6.44 cfs @ 12.12 hrs, Volume= 0.550 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 277.38' @ 12.12 hrs
Flood Elev= 281.88'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.06'	**18.0" Round Culvert** L= 71.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 276.06' / 274.99' S= 0.0149 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=6.27 cfs @ 12.12 hrs HW=277.35' TW=276.21' (Dynamic Tailwater)
1=Culvert (Inlet Controls 6.27 cfs @ 3.87 fps)

Summary for Pond DMH2: DMH#2

Inflow Area = 1.67 ac, 66.11% Impervious, Inflow Depth > 2.83" for 10-yr event
Inflow = 4.72 cfs @ 12.09 hrs, Volume= 0.395 af
Outflow = 4.72 cfs @ 12.09 hrs, Volume= 0.395 af, Atten= 0%, Lag= 0.0 min
Primary = 4.72 cfs @ 12.09 hrs, Volume= 0.395 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 292.81' @ 12.34 hrs
Flood Elev= 297.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	291.19'	**18.0" Round Culvert** L= 50.2' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 291.19' / 291.04' S= 0.0030 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.38 cfs @ 12.09 hrs HW=292.51' TW=292.25' (Dynamic Tailwater)
1=Culvert (Outlet Controls 3.38 cfs @ 2.73 fps)

Summary for Pond DMH8: DMH#8

Inflow Area = 1.54 ac, 55.26% Impervious, Inflow Depth > 3.11" for 10-yr event
Inflow = 4.96 cfs @ 12.09 hrs, Volume= 0.400 af
Outflow = 4.96 cfs @ 12.09 hrs, Volume= 0.400 af, Atten= 0%, Lag= 0.0 min
Primary = 4.96 cfs @ 12.09 hrs, Volume= 0.400 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.37' @ 12.40 hrs
Flood Elev= 314.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	309.88'	**18.0" Round Culvert** L= 13.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 309.88' / 309.81' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.46 cfs @ 12.09 hrs HW=311.94' TW=311.85' (Dynamic Tailwater)
↑—**1=Culvert** (Inlet Controls 2.46 cfs @ 1.39 fps)

Summary for Link A: Western Shadowbrook Drive Treatment Area

Inflow Area = 5.76 ac, 33.42% Impervious, Inflow Depth > 2.04" for 10-yr event
Inflow = 6.25 cfs @ 12.11 hrs, Volume= 0.979 af
Primary = 6.25 cfs @ 12.11 hrs, Volume= 0.979 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link B: pond at beginning of neighborhood

Inflow Area = 5.28 ac, 37.67% Impervious, Inflow Depth > 2.39" for 10-yr event
Inflow = 4.78 cfs @ 12.15 hrs, Volume= 1.051 af
Primary = 4.78 cfs @ 12.15 hrs, Volume= 1.051 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link C: Wetlands

Inflow Area = 9.23 ac, 21.04% Impervious, Inflow Depth > 1.99" for 10-yr event
Inflow = 10.94 cfs @ 12.27 hrs, Volume= 1.531 af
Primary = 10.94 cfs @ 12.27 hrs, Volume= 1.531 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Flow to Tammy Court Runoff Area=57,559 sf 17.28% Impervious Runoff Depth>3.33"
Flow Length=263' Slope=0.6600 '/' Tc=6.0 min CN=WQ Runoff=4.78 cfs 0.367 af

Subcatchment2S: Shadowbrook Dr CB1 Runoff Area=7,546 sf 57.32% Impervious Runoff Depth>3.85"
Flow Length=300' Slope=0.0200 '/' Tc=6.0 min CN=WQ Runoff=0.67 cfs 0.056 af

Subcatchment3S: Shadowbrook Dr CB2 Runoff Area=24,663 sf 8.93% Impervious Runoff Depth>2.77"
Flow Length=344' Tc=8.6 min CN=WQ Runoff=1.57 cfs 0.131 af

Subcatchment4S: Flow to Shadowbrook Runoff Area=11,312 sf 38.41% Impervious Runoff Depth>4.01"
Tc=6.0 min CN=WQ Runoff=1.11 cfs 0.087 af

Subcatchment5S: Canterberry Court Flow Runoff Area=36,412 sf 15.94% Impervious Runoff Depth>1.16"
Flow Length=187' Tc=6.0 min CN=WQ Runoff=0.72 cfs 0.081 af

Subcatchment6S: Lower Shadowbrook Dr Runoff Area=72,715 sf 12.69% Impervious Runoff Depth>0.98"
Flow Length=137' Tc=6.0 min CN=WQ Runoff=1.15 cfs 0.136 af

Subcatchment7S: Rear Overland Flow to Runoff Area=85,028 sf 6.43% Impervious Runoff Depth>2.63"
Flow Length=183' Tc=11.5 min CN=WQ Runoff=4.79 cfs 0.429 af

Subcatchment10S: Roadway Flow Runoff Area=13,692 sf 72.11% Impervious Runoff Depth>4.01"
Flow Length=307' Slope=0.0150 '/' Tc=6.0 min CN=WQ Runoff=1.23 cfs 0.105 af

Subcatchment11S: Roadway Flow Runoff Area=25,722 sf 45.39% Impervious Runoff Depth>4.10"
Flow Length=279' Tc=6.0 min CN=WQ Runoff=2.54 cfs 0.202 af

Subcatchment20S: Roadway Flow Runoff Area=2,774 sf 40.41% Impervious Runoff Depth>3.52"
Flow Length=65' Tc=6.0 min CN=WQ Runoff=0.23 cfs 0.019 af

Subcatchment21S: Roadway Flow Runoff Area=9,904 sf 37.65% Impervious Runoff Depth>3.48"
Flow Length=203' Tc=6.0 min CN=WQ Runoff=0.82 cfs 0.066 af

Subcatchment22S: Overland Flow to Pond Runoff Area=17,710 sf 12.85% Impervious Runoff Depth>2.42"
Flow Length=47' Slope=0.2127 '/' Tc=6.0 min CN=WQ Runoff=1.02 cfs 0.082 af

Subcatchment30S: Roadway Flow Runoff Area=14,714 sf 52.43% Impervious Runoff Depth>4.48"
Flow Length=276' Tc=6.0 min CN=WQ Runoff=1.59 cfs 0.126 af

Subcatchment31S: Roadway Flow Runoff Area=17,194 sf 38.30% Impervious Runoff Depth>3.52"
Flow Length=230' Tc=6.0 min CN=WQ Runoff=1.43 cfs 0.116 af

Subcatchment32S: Roadway Flow Runoff Area=21,651 sf 47.90% Impervious Runoff Depth>4.23"
Flow Length=223' Tc=6.0 min CN=WQ Runoff=2.21 cfs 0.175 af

Subcatchment33S: Roadway Flow Runoff Area=10,356 sf 52.43% Impervious Runoff Depth>3.52"
Flow Length=257' Tc=6.0 min CN=WQ Runoff=0.83 cfs 0.070 af

Subcatchment40S: Roadway Flow Runoff Area=11,686 sf 72.99% Impervious Runoff Depth>4.27"
Flow Length=263' Slope=0.0150 '/' Tc=6.0 min CN=WQ Runoff=1.14 cfs 0.095 af

Subcatchment41S: Roadway Flow Runoff Area=16,070 sf 43.83% Impervious Runoff Depth>4.18"
Flow Length=268' Tc=6.5 min CN=WQ Runoff=1.61 cfs 0.128 af

Subcatchment42S: Flow to CB#200 Runoff Area=29,920 sf 40.43% Impervious Runoff Depth>3.99"
Flow Length=385' Tc=6.0 min CN=WQ Runoff=2.91 cfs 0.229 af

Subcatchment50S: Roadway Flow Runoff Area=12,898 sf 58.95% Impervious Runoff Depth>3.34"
Flow Length=300' Tc=6.0 min CN=WQ Runoff=0.95 cfs 0.082 af

Subcatchment51S: Roadway Flow Runoff Area=12,915 sf 65.19% Impervious Runoff Depth>3.66"
Flow Length=163' Tc=6.0 min CN=WQ Runoff=1.05 cfs 0.090 af

Subcatchment60S: Roadway and Building Runoff Area=23,012 sf 40.57% Impervious Runoff Depth>2.41"
Flow Length=220' Tc=6.0 min CN=WQ Runoff=1.16 cfs 0.106 af

Subcatchment61S: Roadway Flow Runoff Area=7,564 sf 83.43% Impervious Runoff Depth>4.58"
Flow Length=152' Slope=0.0200 '/' Tc=6.0 min CN=WQ Runoff=0.78 cfs 0.066 af

Subcatchment62S: Bioretention Pond Area Runoff Area=6,453 sf 0.00% Impervious Runoff Depth>0.35"
Tc=6.0 min CN=39 Runoff=0.02 cfs 0.004 af

Subcatchment70S: Overland Flow to Runoff Area=128,858 sf 1.40% Impervious Runoff Depth>2.97"
Flow Length=745' Tc=14.6 min CN=WQ Runoff=7.75 cfs 0.733 af

Subcatchment71S: Roadway Flow Runoff Area=26,495 sf 66.16% Impervious Runoff Depth>4.13"
Flow Length=300' Tc=6.0 min CN=WQ Runoff=2.51 cfs 0.209 af

Subcatchment72S: House Flow to Pond Runoff Area=49,031 sf 39.15% Impervious Runoff Depth>2.70"
Flow Length=127' Tc=6.0 min CN=WQ Runoff=2.91 cfs 0.253 af

Subcatchment73S: Roadway Flow Runoff Area=5,932 sf 76.82% Impervious Runoff Depth>4.24"
Flow Length=200' Slope=0.0200 '/' Tc=6.0 min CN=WQ Runoff=0.57 cfs 0.048 af

Subcatchment74S: Area in Circle to Runoff Area=17,656 sf 37.64% Impervious Runoff Depth>2.66"
Flow Length=40' Slope=0.1000 '/' Tc=6.0 min CN=WQ Runoff=1.04 cfs 0.090 af

Subcatchment75S: Roadway Flow Runoff Area=13,639 sf 67.50% Impervious Runoff Depth>4.28"
Flow Length=196' Slope=0.0200 '/' Tc=6.0 min CN=WQ Runoff=1.35 cfs 0.112 af

Subcatchment76S: Roadway Flow Runoff Area=93,020 sf 28.84% Impervious Runoff Depth>3.59"
Flow Length=468' Tc=9.0 min CN=WQ Runoff=7.44 cfs 0.640 af

Subcatchment100S: Unit 1 Runoff Area=920 sf 100.00% Impervious Runoff Depth>5.42"
Tc=6.0 min CN=98 Runoff=0.11 cfs 0.010 af

Subcatchment101S: Units 2 & 3 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>5.42"
Tc=6.0 min CN=98 Runoff=0.23 cfs 0.019 af

Subcatchment102S: Units 4 & 5 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>5.42"
Tc=6.0 min CN=98 Runoff=0.23 cfs 0.019 af

Subcatchment103S: Units 6 & 7 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>5.42"
Tc=6.0 min CN=98 Runoff=0.23 cfs 0.019 af

Subcatchment104S: Units 8 & 9 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>5.42"
Tc=6.0 min CN=98 Runoff=0.23 cfs 0.019 af

Subcatchment105S: Units 11 & 10 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>5.42"
Tc=6.0 min CN=98 Runoff=0.23 cfs 0.019 af

Subcatchment106S: Units 13 & 12 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>5.42"
Tc=6.0 min CN=98 Runoff=0.23 cfs 0.019 af

Subcatchment107S: Units 15 & 14 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>5.42"
Tc=6.0 min CN=98 Runoff=0.23 cfs 0.019 af

Subcatchment108S: Units 17 & 16 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>5.42"
Tc=6.0 min CN=98 Runoff=0.23 cfs 0.019 af

Subcatchment109S: Unit 18 Runoff Area=920 sf 100.00% Impervious Runoff Depth>5.42"
Tc=6.0 min CN=98 Runoff=0.11 cfs 0.010 af

Reach 1R: Tammy Court Inflow=4.78 cfs 0.367 af
Outflow=4.78 cfs 0.367 af

Reach 2R: Ex CB1 Inflow=5.86 cfs 1.213 af
Outflow=5.86 cfs 1.213 af

Reach 3R: Ex CB 2 Inflow=1.57 cfs 0.131 af
Outflow=1.57 cfs 0.131 af

Reach 4R: Upper Shadowbrook Drive Drainage Inflow=5.30 cfs 0.830 af
Outflow=5.30 cfs 0.830 af

Reach 5R: Canterberry Ct Drainage Inflow=0.72 cfs 0.081 af
Outflow=0.72 cfs 0.081 af

Reach 6R: Lower Shadowbrook Dr CB Inflow=1.15 cfs 0.136 af
Outflow=1.15 cfs 0.136 af

Pond 1P: Bioretention Pond #1 Peak Elev=293.13' Storage=9,403 cf Inflow=8.90 cfs 0.750 af
Primary=4.67 cfs 0.743 af Secondary=0.00 cfs 0.000 af Outflow=4.67 cfs 0.743 af

Pond 2P: Pocket Pond #1 Peak Elev=312.77' Storage=21,818 cf Inflow=13.60 cfs 1.099 af
Outflow=5.14 cfs 1.073 af

Pond 3P: Pocket Pond #2 Peak Elev=275.29' Storage=20,381 cf Inflow=18.04 cfs 1.742 af
Primary=11.40 cfs 1.721 af Secondary=0.00 cfs 0.000 af Outflow=11.40 cfs 1.721 af

Pond 30P: Infiltration Pond #1 Peak Elev=280.99' Storage=1,885 cf Inflow=1.04 cfs 0.090 af
Outflow=0.06 cfs 0.070 af

Pond 31P: Infiltration Pond #2 Peak Elev=275.41' Storage=5,200 cf Inflow=2.91 cfs 0.253 af
Discarded=0.10 cfs 0.135 af Primary=0.13 cfs 0.050 af Outflow=0.23 cfs 0.185 af

Pond 100: AD#100 Peak Elev=295.99' Inflow=0.11 cfs 0.010 af
8.0" Round Culvert n=0.013 L=58.1' S=0.0251 '/' Outflow=0.11 cfs 0.010 af

Pond 101: AD#101 Peak Elev=294.58' Inflow=0.34 cfs 0.029 af
8.0" Round Culvert n=0.013 L=37.0' S=0.0500 '/' Outflow=0.34 cfs 0.029 af

Pond 102: AD#102 Peak Elev=294.06' Inflow=0.46 cfs 0.038 af
8.0" Round Culvert n=0.013 L=27.4' S=0.0201 '/' Outflow=0.46 cfs 0.038 af

Pond 103: AD#103 Peak Elev=294.50' Inflow=0.23 cfs 0.019 af
8.0" Round Culvert n=0.013 L=59.0' S=0.0200 '/' Outflow=0.23 cfs 0.019 af

Pond 104: AD#104 Peak Elev=296.16' Inflow=1.26 cfs 0.105 af
8.0" Round Culvert n=0.013 L=16.6' S=0.0367 '/' Outflow=1.26 cfs 0.105 af

Pond 105: AD#105 Peak Elev=298.24' Inflow=1.03 cfs 0.086 af
8.0" Round Culvert n=0.013 L=53.8' S=0.0400 '/' Outflow=1.03 cfs 0.086 af

Pond 106: AD#106 Peak Elev=300.43' Inflow=0.80 cfs 0.067 af
8.0" Round Culvert n=0.013 L=55.9' S=0.0401 '/' Outflow=0.80 cfs 0.067 af

Pond 107: AD#107 Peak Elev=303.34' Inflow=0.57 cfs 0.048 af
8.0" Round Culvert n=0.013 L=64.0' S=0.0450 '/' Outflow=0.57 cfs 0.048 af

Pond 108: AD#108 Peak Elev=306.18' Inflow=0.34 cfs 0.029 af
8.0" Round Culvert n=0.013 L=64.5' S=0.0448 '/' Outflow=0.34 cfs 0.029 af

Pond 109: AD#109 Peak Elev=308.87' Inflow=0.11 cfs 0.010 af
8.0" Round Culvert n=0.013 L=49.9' S=0.0549 '/' Outflow=0.11 cfs 0.010 af

Pond CB11: CB#11 Peak Elev=312.83' Inflow=6.07 cfs 0.487 af
18.0" Round Culvert n=0.013 L=30.3' S=0.0050 '/' Outflow=6.07 cfs 0.487 af

Pond CB110: CB#110 Peak Elev=312.84' Inflow=1.59 cfs 0.126 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0050 '/' Outflow=1.59 cfs 0.126 af

Pond CB12: CB#12 Peak Elev=313.90' Inflow=3.04 cfs 0.245 af
15.0" Round Culvert n=0.013 L=106.0' S=0.0263 '/' Outflow=3.04 cfs 0.245 af

Pond CB120: CB#120 Peak Elev=314.20' Inflow=2.21 cfs 0.175 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0100 '/' Outflow=2.21 cfs 0.175 af

Pond CB14: CB#14 Peak Elev=309.48' Inflow=5.46 cfs 1.139 af
15.0" Round Culvert n=0.013 L=37.9' S=0.0150 '/' Outflow=5.46 cfs 1.139 af

Pond CB15: CB#15 Peak Elev=308.63' Inflow=5.56 cfs 1.158 af
15.0" Round Culvert n=0.013 L=120.0' S=0.0539 '/' Outflow=5.56 cfs 1.158 af

Pond CB170: CB#170 Peak Elev=278.80' Inflow=3.07 cfs 0.257 af
15.0" Round Culvert n=0.013 L=36.7' S=0.0199 '/' Outflow=3.07 cfs 0.257 af

Pond CB171: CB#171 Peak Elev=279.15' Inflow=2.51 cfs 0.209 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0100 '/' Outflow=2.51 cfs 0.209 af

Pond CB19: CB #19 Peak Elev=278.80' Inflow=8.74 cfs 0.751 af
18.0" Round Culvert n=0.013 L=33.8' S=0.0151 '/' Outflow=8.74 cfs 0.751 af

Pond CB20: CB #20 Peak Elev=279.35' Inflow=7.44 cfs 0.640 af
18.0" Round Culvert n=0.013 L=22.0' S=0.0200 '/' Outflow=7.44 cfs 0.640 af

Pond CB201: CB#201 Peak Elev=293.21' Inflow=2.91 cfs 0.229 af
15.0" Round Culvert n=0.013 L=82.0' S=0.0052 '/' Outflow=2.91 cfs 0.229 af

Pond CB3: CB#3 Peak Elev=293.99' Inflow=5.99 cfs 0.517 af
15.0" Round Culvert n=0.013 L=80.0' S=0.0100 '/' Outflow=5.99 cfs 0.517 af

Pond CB30: CB#30 Peak Elev=294.03' Inflow=1.58 cfs 0.133 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0050 '/' Outflow=1.58 cfs 0.133 af

Pond CB4: CB#4 Peak Elev=295.18' Inflow=3.25 cfs 0.278 af
15.0" Round Culvert n=0.013 L=80.9' S=0.0205 '/' Outflow=3.25 cfs 0.278 af

Pond CB5: CB#5 Peak Elev=295.46' Inflow=2.20 cfs 0.187 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0100 '/' Outflow=2.20 cfs 0.187 af

Pond CB80: CB#80 Peak Elev=312.87' Inflow=2.74 cfs 0.224 af
15.0" Round Culvert n=0.013 L=15.1' S=0.0053 '/' Outflow=2.74 cfs 0.224 af

Pond CB800: CB#800 Peak Elev=312.87' Inflow=1.14 cfs 0.095 af
15.0" Round Culvert n=0.013 L=22.7' S=0.0048 '/' Outflow=1.14 cfs 0.095 af

Pond CB9: CB#9 Peak Elev=315.08' Inflow=3.77 cfs 0.307 af
15.0" Round Culvert n=0.013 L=203.6' S=0.0174 '/' Outflow=3.77 cfs 0.307 af

Pond CB90: CB#90 Peak Elev=315.35' Inflow=1.23 cfs 0.105 af
15.0" Round Culvert n=0.013 L=29.8' S=0.0201 '/' Outflow=1.23 cfs 0.105 af

Pond DMH111: DMH#111 Peak Elev=312.78' Inflow=6.07 cfs 0.487 af
24.0" Round Culvert n=0.013 L=40.3' S=0.0050 '/' Outflow=6.07 cfs 0.487 af

Pond DMH17: DMH#17 Peak Elev=276.56' Inflow=11.70 cfs 1.008 af
24.0" Round Culvert n=0.013 L=279.8' S=0.0100 '/' Outflow=11.70 cfs 1.008 af

Pond DMH18: DMH#18 Peak Elev=277.86' Inflow=8.74 cfs 0.751 af
18.0" Round Culvert n=0.013 L=71.6' S=0.0149 '/' Outflow=8.74 cfs 0.751 af

Pond DMH2: DMH#2 Peak Elev=293.23' Inflow=5.99 cfs 0.517 af
18.0" Round Culvert n=0.013 L=50.2' S=0.0030 '/' Outflow=5.99 cfs 0.517 af

Pond DMH8: DMH#8 Peak Elev=312.84' Inflow=6.51 cfs 0.530 af
18.0" Round Culvert n=0.013 L=13.4' S=0.0052 '/' Outflow=6.51 cfs 0.530 af

Link A: Western Shadowbrook Drive Treatment Area Inflow=10.35 cfs 1.333 af
Primary=10.35 cfs 1.333 af

Link B: pond at beginning of neighborhood Inflow=7.91 cfs 1.424 af
Primary=7.91 cfs 1.424 af

Link C: Wetlands Inflow=15.49 cfs 2.200 af
Primary=15.49 cfs 2.200 af

Total Runoff Area = 20.68 ac Runoff Volume = 5.304 af Average Runoff Depth = 3.08"
70.94% Pervious = 14.67 ac 29.06% Impervious = 6.01 ac

Summary for Subcatchment 1S: Flow to Tammy Court

Runoff = 4.78 cfs @ 12.09 hrs, Volume= 0.367 af, Depth> 3.33"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
3,365	98	Roofs, HSG D
6,582	98	Roofs, HSG A
34,775	80	>75% Grass cover, Good, HSG D
8,430	39	>75% Grass cover, Good, HSG A
4,407	77	Woods, Good, HSG D
57,559		Weighted Average
47,612		82.72% Pervious Area
9,947		17.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	50	0.6600	0.57		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.6	213	0.6600	5.69		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.1	263	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2S: Shadowbrook Dr CB1

Runoff = 0.67 cfs @ 12.09 hrs, Volume= 0.056 af, Depth> 3.85"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
4,085	98	Paved parking, HSG A
240	98	Roofs, HSG D
1,432	80	>75% Grass cover, Good, HSG D
1,789	39	>75% Grass cover, Good, HSG A
7,546		Weighted Average
3,221		42.68% Pervious Area
4,325		57.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.5	250	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 3S: Shadowbrook Dr CB2

Runoff = 1.57 cfs @ 12.12 hrs, Volume= 0.131 af, Depth> 2.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
257	98	Roofs, HSG A
6,196	80	>75% Grass cover, Good, HSG D
5,530	39	>75% Grass cover, Good, HSG A
10,329	77	Woods, Good, HSG D
405	30	Woods, Good, HSG A
1,946	98	Paved parking, HSG A
24,663		Weighted Average
22,460		91.07% Pervious Area
2,203		8.93% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
1.9	226	0.1500	1.94		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.3	48	0.1300	2.52		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.1	20	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
8.6	344	Total			

Summary for Subcatchment 4S: Flow to Shadowbrook Dr CBs

Runoff = 1.11 cfs @ 12.09 hrs, Volume= 0.087 af, Depth> 4.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
2,537	80	>75% Grass cover, Good, HSG D
400	39	>75% Grass cover, Good, HSG A
0	74	>75% Grass cover, Good, HSG C
4,345	98	Paved parking, HSG A
4,030	77	Woods, Good, HSG D
11,312		Weighted Average
6,967		61.59% Pervious Area
4,345		38.41% Impervious Area

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

Summary for Subcatchment 5S: Canterberry Court Flow

Runoff = 0.72 cfs @ 12.09 hrs, Volume= 0.081 af, Depth> 1.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
1,564	98	Roofs, HSG A
30,607	39	>75% Grass cover, Good, HSG A
4,241	98	Paved parking, HSG A
36,412		Weighted Average
30,607		84.06% Pervious Area
5,805		15.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.7	137	0.2000	3.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.3	187	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 6S: Lower Shadowbrook Dr Flow

Runoff = 1.15 cfs @ 12.09 hrs, Volume= 0.136 af, Depth> 0.98"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
1,440	98	Roofs, HSG A
3,236	30	Woods, Good, HSG A
60,250	39	>75% Grass cover, Good, HSG A
7,789	98	Paved parking, HSG A
72,715		Weighted Average
63,486		87.31% Pervious Area
9,229		12.69% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.1	38	0.4500	4.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	49	0.3600	3.00		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
3.0	137	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 7S: Rear Overland Flow to Wetland

Runoff = 4.79 cfs @ 12.16 hrs, Volume= 0.429 af, Depth> 2.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
2,935	98	Roofs, HSG D
2,417	98	Roofs, HSG A
118	98	Roofs, HSG C
10,710	80	>75% Grass cover, Good, HSG D
8,039	39	>75% Grass cover, Good, HSG A
4,292	74	>75% Grass cover, Good, HSG C
19,271	77	Woods, Good, HSG D
26,053	70	Woods, Good, HSG C
11,193	55	Woods, Good, HSG B
85,028		Weighted Average
79,558		93.57% Pervious Area
5,470		6.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.8	50	0.0400	0.08		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
1.7	133	0.0650	1.27		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
11.5	183	Total			

Summary for Subcatchment 10S: Roadway Flow

Runoff = 1.23 cfs @ 12.09 hrs, Volume= 0.105 af, Depth> 4.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
3,052	98	Roofs, HSG A
12	80	>75% Grass cover, Good, HSG D
3,807	39	>75% Grass cover, Good, HSG A
506	98	Paved parking, HSG D
6,315	98	Roofs, HSG A
13,692		Weighted Average
3,819		27.89% Pervious Area
9,873		72.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0150	1.01		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.7	257	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.5	307	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11S: Roadway Flow

Runoff = 2.54 cfs @ 12.09 hrs, Volume= 0.202 af, Depth> 4.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
6,240	98	Roofs, HSG D
11,906	80	>75% Grass cover, Good, HSG D
2,142	39	>75% Grass cover, Good, HSG A
1,643	98	Roofs, HSG D
3,791	98	Roofs, HSG A
25,722		Weighted Average
14,048		54.61% Pervious Area
11,674		45.39% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	24	0.3300	0.37		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.3	26	0.0600	0.19		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.8	46	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.2	183	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
5.4	279	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 20S: Roadway Flow

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 0.019 af, Depth> 3.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
396	98	Roofs, HSG D
993	80	>75% Grass cover, Good, HSG D
660	39	>75% Grass cover, Good, HSG A
725	98	Paved parking, HSG A
2,774		Weighted Average
1,653		59.59% Pervious Area
1,121		40.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	50	0.0500	0.20		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.1	15	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.2	65	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 21S: Roadway Flow

Runoff = 0.82 cfs @ 12.09 hrs, Volume= 0.066 af, Depth> 3.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
1,651	98	Roofs, HSG D
365	98	Roofs, HSG A
3,879	80	>75% Grass cover, Good, HSG D
2,296	39	>75% Grass cover, Good, HSG A
4	98	Paved parking, HSG D
1,709	98	Paved parking, HSG A
9,904		Weighted Average
6,175		62.35% Pervious Area
3,729		37.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	50	0.1200	0.29		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.9	98	0.0700	1.85		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	55	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.1	203	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 22S: Overland Flow to Pond

Runoff = 1.02 cfs @ 12.09 hrs, Volume= 0.082 af, Depth> 2.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
1,512	98	Roofs, HSG D
645	98	Roofs, HSG A
8,034	80	>75% Grass cover, Good, HSG D
7,400	39	>75% Grass cover, Good, HSG A
119	98	Paved parking, HSG A
17,710		Weighted Average
15,434		87.15% Pervious Area
2,276		12.85% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.2	47	0.2127	0.36		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.2	47	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 30S: Roadway Flow

Runoff = 1.59 cfs @ 12.09 hrs, Volume= 0.126 af, Depth> 4.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
4,540	98	Paved parking, HSG D
6,935	80	>75% Grass cover, Good, HSG D
65	39	>75% Grass cover, Good, HSG A
1,636	98	Paved parking, HSG D
1,538	98	Paved parking, HSG A
14,714		Weighted Average
7,000		47.57% Pervious Area
7,714		52.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
1.1	64	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.9	162	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.6	276	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 31S: Roadway Flow

Runoff = 1.43 cfs @ 12.09 hrs, Volume= 0.116 af, Depth> 3.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
2,626	98	Paved parking, HSG D
1,214	98	Paved parking, HSG A
6,749	80	>75% Grass cover, Good, HSG D
3,860	39	>75% Grass cover, Good, HSG A
2,745	98	Paved parking, HSG A
17,194		Weighted Average
10,609		61.70% Pervious Area
6,585		38.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.1	50	0.2800	0.40		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.3	60	0.2000	3.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	120	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
3.1	230	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 32S: Roadway Flow

Runoff = 2.21 cfs @ 12.09 hrs, Volume= 0.175 af, Depth> 4.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
5,015	98	Roofs, HSG D
8,256	80	>75% Grass cover, Good, HSG D
991	39	>75% Grass cover, Good, HSG A
1,964	98	Paved parking, HSG D
3,391	98	Paved parking, HSG A
2,034	77	Woods, Good, HSG D
21,651		Weighted Average
11,281		52.10% Pervious Area
10,370		47.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	40	0.2500	0.17		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
0.7	10	0.2000	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.3	63	0.3300	4.02		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.6	110	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
5.6	223	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 33S: Roadway Flow

Runoff = 0.83 cfs @ 12.09 hrs, Volume= 0.070 af, Depth> 3.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
948	98	Roofs, HSG D
395	98	Roofs, HSG A
1,701	80	>75% Grass cover, Good, HSG D
3,225	39	>75% Grass cover, Good, HSG A
4,087	98	Paved parking, HSG A
10,356		Weighted Average
4,926		47.57% Pervious Area
5,430		52.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.2	37	0.2000	3.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.0	170	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
3.8	257	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 40S: Roadway Flow

Runoff = 1.14 cfs @ 12.09 hrs, Volume= 0.095 af, Depth> 4.27"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
752	98	Roofs, HSG D
1,321	98	Roofs, HSG A
391	98	Roofs, HSG C
780	80	>75% Grass cover, Good, HSG D
2,326	39	>75% Grass cover, Good, HSG A
50	74	>75% Grass cover, Good, HSG C
1,115	98	Paved parking, HSG D
4,921	98	Paved parking, HSG A
30	98	Paved parking, HSG C
11,686		Weighted Average
3,156		27.01% Pervious Area
8,530		72.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0150	1.01		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.4	213	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	263	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 41S: Roadway Flow

Runoff = 1.61 cfs @ 12.09 hrs, Volume= 0.128 af, Depth> 4.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
2,949	98	Roofs, HSG D
157	98	Roofs, HSG A
8,262	80	>75% Grass cover, Good, HSG D
765	39	>75% Grass cover, Good, HSG A
1,393	98	Paved parking, HSG D
2,544	98	Paved parking, HSG A
16,070		Weighted Average
9,027		56.17% Pervious Area
7,043		43.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	40	0.0250	0.15		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.5	10	0.3300	0.31		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.6	80	0.1000	2.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.9	138	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
6.5	268	Total			

Summary for Subcatchment 42S: Flow to CB#200

Runoff = 2.91 cfs @ 12.09 hrs, Volume= 0.229 af, Depth> 3.99"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
1,682	39	>75% Grass cover, Good, HSG A
10,383	80	>75% Grass cover, Good, HSG D
3,530	74	>75% Grass cover, Good, HSG C
6,936	98	Paved parking, HSG A
2,228	77	Woods, Good, HSG D
170	98	Roofs, HSG A
90	98	Roofs, HSG C
2,670	98	Roofs, HSG D
1,237	98	Roofs, HSG A
994	98	Roofs, HSG C
29,920		Weighted Average
17,823		59.57% Pervious Area
12,097		40.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.2	335	0.0500	4.54		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.9	385	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 50S: Roadway Flow

Runoff = 0.95 cfs @ 12.09 hrs, Volume= 0.082 af, Depth> 3.34"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
5,295	39	>75% Grass cover, Good, HSG A
7,603	98	Paved parking, HSG A
12,898		Weighted Average
5,295		41.05% Pervious Area
7,603		58.95% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	50	0.0550	1.71		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.9	250	0.0500	4.54		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.4	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 51S: Roadway Flow

Runoff = 1.05 cfs @ 12.09 hrs, Volume= 0.090 af, Depth> 3.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
3,027	98	Roofs, HSG A
4,496	39	>75% Grass cover, Good, HSG A
5,392	98	Paved parking, HSG A
12,915		Weighted Average
4,496		34.81% Pervious Area
8,419		65.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	50	0.0800	0.25		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.6	76	0.0900	2.10		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.1	37	0.0500	4.54		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.1	163	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 60S: Roadway and Building Flow

Runoff = 1.16 cfs @ 12.09 hrs, Volume= 0.106 af, Depth> 2.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
3,213	98	Roofs, HSG A
13,675	39	>75% Grass cover, Good, HSG A
6,124	98	Paved parking, HSG A
23,012		Weighted Average
13,675		59.43% Pervious Area
9,337		40.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.6	155	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.1	15	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
5.3	220	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 61S: Roadway Flow

Runoff = 0.78 cfs @ 12.09 hrs, Volume= 0.066 af, Depth> 4.58"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
1,253	39	>75% Grass cover, Good, HSG A
6,311	98	Paved parking, HSG A
7,564		Weighted Average
1,253		16.57% Pervious Area
6,311		83.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.6	102	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.3	152	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 62S: Bioretention Pond Area

Runoff = 0.02 cfs @ 12.38 hrs, Volume= 0.004 af, Depth> 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
6,453	39	>75% Grass cover, Good, HSG A
6,453		100.00% Pervious Area

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

Summary for Subcatchment 70S: Overland Flow to Detention Pond

Runoff = 7.75 cfs @ 12.20 hrs, Volume= 0.733 af, Depth> 2.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
607	98	Roofs, HSG D
1,192	98	Roofs, HSG A
24,819	80	>75% Grass cover, Good, HSG D
13,185	39	>75% Grass cover, Good, HSG A
89,055	77	Woods, Good, HSG D
128,858		Weighted Average
127,059		98.60% Pervious Area
1,799		1.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0800	0.11		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
3.6	391	0.1300	1.80		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
3.5	304	0.0430	1.45		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
14.6	745	Total			

Summary for Subcatchment 71S: Roadway Flow

Runoff = 2.51 cfs @ 12.09 hrs, Volume= 0.209 af, Depth> 4.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
2,572	98	Roofs, HSG D
3,565	98	Roofs, HSG A
3,581	80	>75% Grass cover, Good, HSG D
5,385	39	>75% Grass cover, Good, HSG A
1,533	98	Paved parking, HSG D
9,859	98	Paved parking, HSG A
26,495		Weighted Average
8,966		33.84% Pervious Area
17,529		66.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	50	0.0800	0.25		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
1.5	250	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.9	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 72S: House Flow to Pond

Runoff = 2.91 cfs @ 12.09 hrs, Volume= 0.253 af, Depth> 2.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
2,848	98	Roofs, HSG D
9,725	98	Roofs, HSG A
23,884	39	>75% Grass cover, Good, HSG A
4,734	80	>75% Grass cover, Good, HSG D
1,216	74	>75% Grass cover, Good, HSG C
1,330	98	Paved parking, HSG D
5,294	98	Paved parking, HSG A
49,031		Weighted Average
29,834		60.85% Pervious Area
19,197		39.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.3	77	0.3100	3.90		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.0	127	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 73S: Roadway Flow

Runoff = 0.57 cfs @ 12.09 hrs, Volume= 0.048 af, Depth> 4.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
1,375	39	>75% Grass cover, Good, HSG A
4,557	98	Paved parking, HSG A
5,932		Weighted Average
1,375		23.18% Pervious Area
4,557		76.82% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.9	150	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.6	200	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 74S: Area in Circle to Infiltration Pond

Runoff = 1.04 cfs @ 12.09 hrs, Volume= 0.090 af, Depth> 2.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
4,851	98	Roofs, HSG A
8,558	39	>75% Grass cover, Good, HSG A
1,547	98	Roofs, HSG D
248	98	Roofs, HSG C
1,588	80	>75% Grass cover, Good, HSG D
864	74	>75% Grass cover, Good, HSG C
17,656		Weighted Average
11,010		62.36% Pervious Area
6,646		37.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	40	0.1000	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.6	40	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 75S: Roadway Flow

Runoff = 1.35 cfs @ 12.09 hrs, Volume= 0.112 af, Depth> 4.28"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
295	98	Roofs, HSG D
1,380	98	Roofs, HSG A
2,209	80	>75% Grass cover, Good, HSG D
2,224	39	>75% Grass cover, Good, HSG A
4,186	98	Paved parking, HSG D
3,345	98	Paved parking, HSG A
13,639		Weighted Average
4,433		32.50% Pervious Area
9,206		67.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.8	146	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.5	196	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 76S: Roadway Flow

Runoff = 7.44 cfs @ 12.13 hrs, Volume= 0.640 af, Depth> 3.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
14,560	98	Roofs, HSG D
1,133	98	Roofs, HSG A
24,384	80	>75% Grass cover, Good, HSG D
10,102	39	>75% Grass cover, Good, HSG A
31,709	77	Woods, Good, HSG D
7,686	98	Paved parking, HSG D
3,446	98	Paved parking, HSG A
93,020		Weighted Average
66,195		71.16% Pervious Area
26,825		28.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
0.9	130	0.2150	2.32		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
1.0	120	0.0830	2.02		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.8	168	0.0300	3.52		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
9.0	468	Total			

Summary for Subcatchment 100S: Unit 1

Runoff = 0.11 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 5.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
920	98	Roofs, HSG A
920		100.00% Impervious Area

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

Summary for Subcatchment 101S: Units 2 & 3

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 0.019 af, Depth> 5.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 102S: Units 4 & 5

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 0.019 af, Depth> 5.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 103S: Units 6 & 7

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 0.019 af, Depth> 5.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 104S: Units 8 & 9

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 0.019 af, Depth> 5.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 105S: Units 11 & 10

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 0.019 af, Depth> 5.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 106S: Units 13 & 12

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 0.019 af, Depth> 5.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 107S: Units 15 & 14

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 0.019 af, Depth> 5.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 108S: Units 17 & 16

Runoff = 0.23 cfs @ 12.09 hrs, Volume= 0.019 af, Depth> 5.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 109S: Unit 18

Runoff = 0.11 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 5.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 25-yr Rainfall=5.66"

Area (sf)	CN	Description
920	98	Roofs, HSG A
920		100.00% Impervious Area

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

Summary for Reach 1R: Tammy Court

Inflow Area = 1.32 ac, 17.28% Impervious, Inflow Depth > 3.33" for 25-yr event
Inflow = 4.78 cfs @ 12.09 hrs, Volume= 0.367 af
Outflow = 4.78 cfs @ 12.09 hrs, Volume= 0.367 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 2R: Ex CB1

Inflow Area = 3.88 ac, 46.55% Impervious, Inflow Depth > 3.75" for 25-yr event
Inflow = 5.86 cfs @ 12.24 hrs, Volume= 1.213 af
Outflow = 5.86 cfs @ 12.24 hrs, Volume= 1.213 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 3R: Ex CB 2

Inflow Area = 0.57 ac, 8.93% Impervious, Inflow Depth > 2.77" for 25-yr event
Inflow = 1.57 cfs @ 12.12 hrs, Volume= 0.131 af
Outflow = 1.57 cfs @ 12.12 hrs, Volume= 0.131 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 4R: Upper Shadowbrook Drive Drainage

Inflow Area = 2.77 ac, 53.61% Impervious, Inflow Depth > 3.59" for 25-yr event
Inflow = 5.30 cfs @ 12.21 hrs, Volume= 0.830 af
Outflow = 5.30 cfs @ 12.21 hrs, Volume= 0.830 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 5R: Canterberry Ct Drainage

Inflow Area = 0.84 ac, 15.94% Impervious, Inflow Depth > 1.16" for 25-yr event
Inflow = 0.72 cfs @ 12.09 hrs, Volume= 0.081 af
Outflow = 0.72 cfs @ 12.09 hrs, Volume= 0.081 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 6R: Lower Shadowbrook Dr CB

Inflow Area = 1.67 ac, 12.69% Impervious, Inflow Depth > 0.98" for 25-yr event
Inflow = 1.15 cfs @ 12.09 hrs, Volume= 0.136 af
Outflow = 1.15 cfs @ 12.09 hrs, Volume= 0.136 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Pond 1P: Bioretention Pond #1

Inflow Area = 2.51 ac, 55.18% Impervious, Inflow Depth > 3.58" for 25-yr event
Inflow = 8.90 cfs @ 12.09 hrs, Volume= 0.750 af
Outflow = 4.67 cfs @ 12.23 hrs, Volume= 0.743 af, Atten= 48%, Lag= 8.6 min
Primary = 4.67 cfs @ 12.23 hrs, Volume= 0.743 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 293.13' @ 12.23 hrs Surf.Area= 4,075 sf Storage= 9,403 cf

Plug-Flow detention time= 79.9 min calculated for 0.743 af (99% of inflow)
Center-of-Mass det. time= 73.9 min (836.4 - 762.4)

Volume	Invert	Avail.Storage	Storage Description
#1	288.00'	13,264 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
288.00	434	0	0
290.00	1,140	1,574	1,574
291.00	1,598	1,369	2,943
292.00	3,160	2,379	5,322
294.00	4,782	7,942	13,264

Device	Routing	Invert	Outlet Devices
#1	Secondary	293.80'	**4.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64
#2	Device 5	288.00'	**10.000 in/hr Exfiltration over Surface area**
#3	Device 5	292.10'	**15.0" Vert. Orifice/Grate** C= 0.600
#4	Device 5	293.50'	**48.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Primary	285.00'	**12.0" Round Culvert** L= 55.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 285.00' / 283.04' S= 0.0354 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=4.65 cfs @ 12.23 hrs HW=293.12' TW=0.00' (Dynamic Tailwater)
└─**5=Culvert** (Passes 4.65 cfs of 10.44 cfs potential flow)
  ├─**2=Exfiltration** (Exfiltration Controls 0.94 cfs)
  ├─**3=Orifice/Grate** (Orifice Controls 3.71 cfs @ 3.45 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=288.00' TW=0.00' (Dynamic Tailwater)
└─**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 2P: Pocket Pond #1

Inflow Area = 3.42 ac, 46.71% Impervious, Inflow Depth > 3.86" for 25-yr event
Inflow = 13.60 cfs @ 12.09 hrs, Volume= 1.099 af
Outflow = 5.14 cfs @ 12.34 hrs, Volume= 1.073 af, Atten= 62%, Lag= 15.3 min
Primary = 5.14 cfs @ 12.34 hrs, Volume= 1.073 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Starting Elev= 309.79' Surf.Area= 3,009 sf Storage= 5,826 cf
Peak Elev= 312.77' @ 12.34 hrs Surf.Area= 7,801 sf Storage= 21,818 cf (15,992 cf above start)

Plug-Flow detention time= 201.7 min calculated for 0.937 af (85% of inflow)
Center-of-Mass det. time= 91.8 min (864.2 - 772.4)

Volume	Invert	Avail.Storage	Storage Description
#1	306.00'	27,930 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
306.00	306	196.0	0	0	306
308.00	1,616	240.0	1,750	1,750	1,894
310.00	3,201	285.0	4,728	6,478	3,846
312.00	6,785	438.0	9,764	16,242	12,678
313.50	8,844	470.0	11,688	27,930	15,088

Device	Routing	Invert	Outlet Devices
#1	Device 4	309.80'	**4.5" Vert. Orifice/Grate** C= 0.600
#2	Device 4	311.50'	**14.0" Vert. Orifice/Grate** C= 0.600
#3	Device 4	313.10'	**48.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Primary	309.75'	**15.0" Round Culvert** L= 93.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 309.75' / 307.89' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=5.13 cfs @ 12.34 hrs HW=312.76' TW=309.48' (Dynamic Tailwater)
└─**4=Culvert** (Passes 5.13 cfs of 9.13 cfs potential flow)
  ├─**1=Orifice/Grate** (Orifice Controls 0.89 cfs @ 8.02 fps)
  ├─**2=Orifice/Grate** (Orifice Controls 4.25 cfs @ 3.97 fps)
  └─**3=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 3P: Pocket Pond #2

Inflow Area = 6.15 ac, 22.36% Impervious, Inflow Depth > 3.40" for 25-yr event
Inflow = 18.04 cfs @ 12.14 hrs, Volume= 1.742 af
Outflow = 11.40 cfs @ 12.34 hrs, Volume= 1.721 af, Atten= 37%, Lag= 11.9 min
Primary = 11.40 cfs @ 12.34 hrs, Volume= 1.721 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Starting Elev= 271.98' Surf.Area= 2,847 sf Storage= 5,675 cf
Peak Elev= 275.29' @ 12.34 hrs Surf.Area= 6,136 sf Storage= 20,381 cf (14,706 cf above start)

Plug-Flow detention time= 94.9 min calculated for 1.588 af (91% of inflow)
Center-of-Mass det. time= 26.9 min (826.7 - 799.8)

Volume	Invert	Avail.Storage	Storage Description
#1	268.00'	25,013 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
268.00	408	0	0
269.00	790	599	599
270.00	1,250	1,020	1,619
272.00	2,863	4,113	5,732
274.00	4,762	7,625	13,357
276.00	6,894	11,656	25,013

Device	Routing	Invert	Outlet Devices
#1	Device 4	272.00'	**9.0" Vert. Orifice/Grate** C= 0.600
#2	Secondary	275.35'	**10.0' long x 4.0' 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) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32
#3	Device 4	273.80'	**24.0" W x 10.0" H Vert. Orifice/Grate** C= 0.600

#4	Primary	272.00'	**18.0" Round Culvert** L= 105.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 272.00' / 271.57' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#5	Primary	275.70'	**48.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=11.39 cfs @ 12.34 hrs HW=275.28' TW=0.00' (Dynamic Tailwater)
- **4=Culvert** (Barrel Controls 11.39 cfs @ 6.45 fps)
  - **1=Orifice/Grate** (Passes < 3.63 cfs potential flow)
  - **3=Orifice/Grate** (Passes < 8.24 cfs potential flow)
- **5=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=271.98' TW=0.00' (Dynamic Tailwater)
- **2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 30P: Infiltration Pond #1

Inflow Area = 0.41 ac, 37.64% Impervious, Inflow Depth > 2.66" for 25-yr event
Inflow = 1.04 cfs @ 12.09 hrs, Volume= 0.090 af
Outflow = 0.06 cfs @ 14.46 hrs, Volume= 0.070 af, Atten= 94%, Lag= 142.1 min
Discarded = 0.06 cfs @ 14.46 hrs, Volume= 0.070 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 280.99' @ 14.46 hrs Surf.Area= 2,576 sf Storage= 1,885 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 170.4 min (943.3 - 772.9)

Volume	Invert	Avail.Storage	Storage Description
#1	280.00'	5,166 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
280.00	1,214	0	0
282.00	3,952	5,166	5,166

Device	Routing	Invert	Outlet Devices
#1	Discarded	280.00'	**1.000 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.06 cfs @ 14.46 hrs HW=280.99' (Free Discharge)
- **1=Exfiltration** (Exfiltration Controls 0.06 cfs)

Summary for Pond 31P: Infiltration Pond #2

Inflow Area = 1.13 ac, 39.15% Impervious, Inflow Depth > 2.70" for 25-yr event
Inflow = 2.91 cfs @ 12.09 hrs, Volume= 0.253 af
Outflow = 0.23 cfs @ 13.52 hrs, Volume= 0.185 af, Atten= 92%, Lag= 86.0 min
Discarded = 0.10 cfs @ 13.52 hrs, Volume= 0.135 af
Primary = 0.13 cfs @ 13.52 hrs, Volume= 0.050 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 275.41' @ 13.52 hrs Surf.Area= 4,353 sf Storage= 5,200 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 130.4 min (901.4 - 771.0)

Volume	Invert	Avail.Storage	Storage Description
#1	274.00'	7,938 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
274.00	3,030	0	0
276.00	4,908	7,938	7,938

Device	Routing	Invert	Outlet Devices
#1	Device 3	275.00'	**3.0" Vert. Orifice/Grate** C= 0.600
#2	Discarded	274.00'	**1.000 in/hr Exfiltration over Surface area**
#3	Primary	274.16'	**15.0" Round Culvert** L= 32.2' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 274.16' / 274.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#4	Primary	276.40'	**24.0" x 24.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.10 cfs @ 13.52 hrs HW=275.41' (Free Discharge)
└**2=Exfiltration** (Exfiltration Controls 0.10 cfs)

Primary OutFlow Max=0.13 cfs @ 13.52 hrs HW=275.41' TW=0.00' (Dynamic Tailwater)
├**3=Culvert** (Passes 0.13 cfs of 3.77 cfs potential flow)
│└**1=Orifice/Grate** (Orifice Controls 0.13 cfs @ 2.56 fps)
└**4=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 100: AD#100

Inflow Area = 0.02 ac,100.00% Impervious, Inflow Depth > 5.42" for 25-yr event
Inflow = 0.11 cfs @ 12.09 hrs, Volume= 0.010 af
Outflow = 0.11 cfs @ 12.09 hrs, Volume= 0.010 af, Atten= 0%, Lag= 0.0 min
Primary = 0.11 cfs @ 12.09 hrs, Volume= 0.010 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.99' @ 12.09 hrs
Flood Elev= 297.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	295.81'	**8.0" Round Culvert** L= 58.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 295.81' / 294.35' S= 0.0251 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.11 cfs @ 12.09 hrs HW=295.99' TW=294.58' (Dynamic Tailwater)
└**1=Culvert** (Inlet Controls 0.11 cfs @ 1.45 fps)

Summary for Pond 101: AD#101

Inflow Area = 0.06 ac,100.00% Impervious, Inflow Depth > 5.42" for 25-yr event
Inflow = 0.34 cfs @ 12.09 hrs, Volume= 0.029 af
Outflow = 0.34 cfs @ 12.09 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
Primary = 0.34 cfs @ 12.09 hrs, Volume= 0.029 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 294.58' @ 12.09 hrs
Flood Elev= 297.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.25'	**8.0" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.25' / 292.40' S= 0.0500 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.33 cfs @ 12.09 hrs HW=294.58' TW=293.57' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.33 cfs @ 1.95 fps)

Summary for Pond 102: AD#102

Inflow Area = 0.08 ac,100.00% Impervious, Inflow Depth > 5.42" for 25-yr event
Inflow = 0.46 cfs @ 12.09 hrs, Volume= 0.038 af
Outflow = 0.46 cfs @ 12.09 hrs, Volume= 0.038 af, Atten= 0%, Lag= 0.0 min
Primary = 0.46 cfs @ 12.09 hrs, Volume= 0.038 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 294.06' @ 12.21 hrs
Flood Elev= 297.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	292.95'	**8.0" Round Culvert** L= 27.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.95' / 292.40' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=293.46' TW=293.57' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond 103: AD#103

Inflow Area = 0.04 ac,100.00% Impervious, Inflow Depth > 5.42" for 25-yr event
Inflow = 0.23 cfs @ 12.09 hrs, Volume= 0.019 af
Outflow = 0.23 cfs @ 12.09 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min
Primary = 0.23 cfs @ 12.09 hrs, Volume= 0.019 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 294.50' @ 12.09 hrs
Flood Elev= 297.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.23'	**8.0" Round Culvert** L= 59.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.23' / 293.05' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.22 cfs @ 12.09 hrs HW=294.49' TW=293.46' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.22 cfs @ 1.74 fps)

Summary for Pond 104: AD#104

Inflow Area = 0.23 ac,100.00% Impervious, Inflow Depth > 5.42" for 25-yr event
Inflow = 1.26 cfs @ 12.09 hrs, Volume= 0.105 af
Outflow = 1.26 cfs @ 12.09 hrs, Volume= 0.105 af, Atten= 0%, Lag= 0.0 min
Primary = 1.26 cfs @ 12.09 hrs, Volume= 0.105 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 296.16' @ 12.09 hrs
Flood Elev= 299.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	295.27'	**8.0" Round Culvert** L= 16.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 295.27' / 294.66' S= 0.0367 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=1.22 cfs @ 12.09 hrs HW=296.13' TW=295.43' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.22 cfs @ 3.51 fps)

Summary for Pond 105: AD#105

Inflow Area = 0.19 ac,100.00% Impervious, Inflow Depth > 5.42" for 25-yr event
Inflow = 1.03 cfs @ 12.09 hrs, Volume= 0.086 af
Outflow = 1.03 cfs @ 12.09 hrs, Volume= 0.086 af, Atten= 0%, Lag= 0.0 min
Primary = 1.03 cfs @ 12.09 hrs, Volume= 0.086 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 298.24' @ 12.09 hrs
Flood Elev= 301.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	297.53'	**8.0" Round Culvert** L= 53.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 297.53' / 295.38' S= 0.0400 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=1.00 cfs @ 12.09 hrs HW=298.22' TW=296.13' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.00 cfs @ 2.87 fps)

Summary for Pond 106: AD#106

Inflow Area = 0.15 ac,100.00% Impervious, Inflow Depth > 5.42" for 25-yr event
Inflow = 0.80 cfs @ 12.09 hrs, Volume= 0.067 af
Outflow = 0.80 cfs @ 12.09 hrs, Volume= 0.067 af, Atten= 0%, Lag= 0.0 min
Primary = 0.80 cfs @ 12.09 hrs, Volume= 0.067 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 300.43' @ 12.09 hrs
Flood Elev= 303.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	299.87'	**8.0" Round Culvert** L= 55.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 299.87' / 297.63' S= 0.0401 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.78 cfs @ 12.09 hrs HW=300.42' TW=298.22' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.78 cfs @ 2.53 fps)

Summary for Pond 107: AD#107

Inflow Area = 0.11 ac,100.00% Impervious, Inflow Depth > 5.42" for 25-yr event
Inflow = 0.57 cfs @ 12.09 hrs, Volume= 0.048 af
Outflow = 0.57 cfs @ 12.09 hrs, Volume= 0.048 af, Atten= 0%, Lag= 0.0 min
Primary = 0.57 cfs @ 12.09 hrs, Volume= 0.048 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 303.34' @ 12.09 hrs
Flood Elev= 306.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	302.85'	**8.0" Round Culvert** L= 64.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 302.85' / 299.97' S= 0.0450 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.56 cfs @ 12.09 hrs HW=303.33' TW=300.42' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.56 cfs @ 2.08 fps)

Summary for Pond 108: AD#108

Inflow Area = 0.06 ac,100.00% Impervious, Inflow Depth > 5.42" for 25-yr event
Inflow = 0.34 cfs @ 12.09 hrs, Volume= 0.029 af
Outflow = 0.34 cfs @ 12.09 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
Primary = 0.34 cfs @ 12.09 hrs, Volume= 0.029 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 306.18' @ 12.09 hrs
Flood Elev= 309.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	305.85'	**8.0" Round Culvert** L= 64.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 305.85' / 302.96' S= 0.0448 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.33 cfs @ 12.09 hrs HW=306.18' TW=303.33' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.33 cfs @ 1.95 fps)

Summary for Pond 109: AD#109

Inflow Area = 0.02 ac,100.00% Impervious, Inflow Depth > 5.42" for 25-yr event
Inflow = 0.11 cfs @ 12.09 hrs, Volume= 0.010 af
Outflow = 0.11 cfs @ 12.09 hrs, Volume= 0.010 af, Atten= 0%, Lag= 0.0 min
Primary = 0.11 cfs @ 12.09 hrs, Volume= 0.010 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 308.87' @ 12.09 hrs
Flood Elev= 311.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	308.69'	**8.0" Round Culvert** L= 49.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 308.69' / 305.95' S= 0.0549 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.11 cfs @ 12.09 hrs HW=308.87' TW=306.18' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.11 cfs @ 1.45 fps)

Summary for Pond CB11: CB#11

Inflow Area = 1.47 ac, 47.09% Impervious, Inflow Depth > 3.98" for 25-yr event
Inflow = 6.07 cfs @ 12.09 hrs, Volume= 0.487 af
Outflow = 6.07 cfs @ 12.09 hrs, Volume= 0.487 af, Atten= 0%, Lag= 0.0 min
Primary = 6.07 cfs @ 12.09 hrs, Volume= 0.487 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.83' @ 12.38 hrs
Flood Elev= 314.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.04'	**18.0" Round Culvert** L= 30.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.04' / 309.89' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.10 cfs @ 12.09 hrs HW=312.44' TW=312.21' (Dynamic Tailwater)
1=Culvert (Inlet Controls 4.10 cfs @ 2.32 fps)

Summary for Pond CB110: CB#110

Inflow Area = 0.34 ac, 52.43% Impervious, Inflow Depth > 4.48" for 25-yr event
Inflow = 1.59 cfs @ 12.09 hrs, Volume= 0.126 af
Outflow = 1.59 cfs @ 12.09 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.0 min
Primary = 1.59 cfs @ 12.09 hrs, Volume= 0.126 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.84' @ 12.42 hrs
Flood Elev= 314.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.25'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.25' / 310.14' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=312.18' TW=312.44' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB12: CB#12

Inflow Area = 0.73 ac, 49.36% Impervious, Inflow Depth > 4.00" for 25-yr event
Inflow = 3.04 cfs @ 12.09 hrs, Volume= 0.245 af
Outflow = 3.04 cfs @ 12.09 hrs, Volume= 0.245 af, Atten= 0%, Lag= 0.0 min
Primary = 3.04 cfs @ 12.09 hrs, Volume= 0.245 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 313.90' @ 12.09 hrs
Flood Elev= 317.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	313.00'	**15.0" Round Culvert** L= 106.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 313.00' / 310.21' S= 0.0263 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.97 cfs @ 12.09 hrs HW=313.88' TW=312.44' (Dynamic Tailwater)
1=Culvert (Inlet Controls 2.97 cfs @ 3.20 fps)

Summary for Pond CB120: CB#120

Inflow Area = 0.50 ac, 47.90% Impervious, Inflow Depth > 4.23" for 25-yr event
Inflow = 2.21 cfs @ 12.09 hrs, Volume= 0.175 af
Outflow = 2.21 cfs @ 12.09 hrs, Volume= 0.175 af, Atten= 0%, Lag= 0.0 min
Primary = 2.21 cfs @ 12.09 hrs, Volume= 0.175 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 314.20' @ 12.11 hrs
Flood Elev= 317.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	313.32'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 313.32' / 313.10' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.94 cfs @ 12.09 hrs HW=314.18' TW=313.88' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.94 cfs @ 3.06 fps)

Summary for Pond CB14: CB#14

Inflow Area = 3.64 ac, 46.14% Impervious, Inflow Depth > 3.75" for 25-yr event
Inflow = 5.46 cfs @ 12.31 hrs, Volume= 1.139 af
Outflow = 5.46 cfs @ 12.31 hrs, Volume= 1.139 af, Atten= 0%, Lag= 0.0 min
Primary = 5.46 cfs @ 12.31 hrs, Volume= 1.139 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 309.48' @ 12.32 hrs
Flood Elev= 312.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	307.79'	**15.0" Round Culvert** L= 37.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 307.79' / 307.22' S= 0.0150 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=5.45 cfs @ 12.31 hrs HW=309.48' TW=308.63' (Dynamic Tailwater)
1=Culvert (Inlet Controls 5.45 cfs @ 4.44 fps)

Summary for Pond CB15: CB#15

Inflow Area = 3.71 ac, 46.04% Impervious, Inflow Depth > 3.75" for 25-yr event
Inflow = 5.56 cfs @ 12.29 hrs, Volume= 1.158 af
Outflow = 5.56 cfs @ 12.29 hrs, Volume= 1.158 af, Atten= 0%, Lag= 0.0 min
Primary = 5.56 cfs @ 12.29 hrs, Volume= 1.158 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 308.63' @ 12.29 hrs
Flood Elev= 312.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	307.12'	**15.0" Round Culvert** L= 120.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 307.12' / 300.65' S= 0.0539 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=5.56 cfs @ 12.29 hrs HW=308.63' TW=0.00' (Dynamic Tailwater)
1=Culvert (Inlet Controls 5.56 cfs @ 4.53 fps)

Summary for Pond CB170: CB#170

Inflow Area = 0.74 ac, 68.11% Impervious, Inflow Depth > 4.15" for 25-yr event
Inflow = 3.07 cfs @ 12.09 hrs, Volume= 0.257 af
Outflow = 3.07 cfs @ 12.09 hrs, Volume= 0.257 af, Atten= 0%, Lag= 0.0 min
Primary = 3.07 cfs @ 12.09 hrs, Volume= 0.257 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 278.80' @ 12.09 hrs
Flood Elev= 281.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	277.90'	**15.0" Round Culvert** L= 36.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 277.90' / 277.17' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.99 cfs @ 12.09 hrs HW=278.79' TW=276.48' (Dynamic Tailwater)
1=Culvert (Inlet Controls 2.99 cfs @ 3.21 fps)

Summary for Pond CB171: CB#171

Inflow Area = 0.61 ac, 66.16% Impervious, Inflow Depth > 4.13" for 25-yr event
Inflow = 2.51 cfs @ 12.09 hrs, Volume= 0.209 af
Outflow = 2.51 cfs @ 12.09 hrs, Volume= 0.209 af, Atten= 0%, Lag= 0.0 min
Primary = 2.51 cfs @ 12.09 hrs, Volume= 0.209 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 279.15' @ 12.10 hrs
Flood Elev= 281.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.22'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 278.22' / 278.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.25 cfs @ 12.09 hrs HW=279.12' TW=278.79' (Dynamic Tailwater)
1=Culvert (Outlet Controls 2.25 cfs @ 3.31 fps)

Summary for Pond CB19: CB #19

Inflow Area = 2.45 ac, 33.78% Impervious, Inflow Depth > 3.68" for 25-yr event
Inflow = 8.74 cfs @ 12.12 hrs, Volume= 0.751 af
Outflow = 8.74 cfs @ 12.12 hrs, Volume= 0.751 af, Atten= 0%, Lag= 0.0 min
Primary = 8.74 cfs @ 12.12 hrs, Volume= 0.751 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 278.80' @ 12.15 hrs
Flood Elev= 281.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.67'	**18.0" Round Culvert** L= 33.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 276.67' / 276.16' S= 0.0151 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=7.55 cfs @ 12.12 hrs HW=278.60' TW=277.81' (Dynamic Tailwater)
1=Culvert (Inlet Controls 7.55 cfs @ 4.27 fps)

Summary for Pond CB20: CB #20

Inflow Area = 2.14 ac, 28.84% Impervious, Inflow Depth > 3.59" for 25-yr event
Inflow = 7.44 cfs @ 12.13 hrs, Volume= 0.640 af
Outflow = 7.44 cfs @ 12.13 hrs, Volume= 0.640 af, Atten= 0%, Lag= 0.0 min
Primary = 7.44 cfs @ 12.13 hrs, Volume= 0.640 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 279.35' @ 12.18 hrs
Flood Elev= 281.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	277.21'	**18.0" Round Culvert** L= 22.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 277.21' / 276.77' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.18 cfs @ 12.13 hrs HW=279.01' TW=278.64' (Dynamic Tailwater)
1=Culvert (Inlet Controls 5.18 cfs @ 2.93 fps)

Summary for Pond CB201: CB#201

Inflow Area = 0.69 ac, 40.43% Impervious, Inflow Depth > 3.99" for 25-yr event
Inflow = 2.91 cfs @ 12.09 hrs, Volume= 0.229 af
Outflow = 2.91 cfs @ 12.09 hrs, Volume= 0.229 af, Atten= 0%, Lag= 0.0 min
Primary = 2.91 cfs @ 12.09 hrs, Volume= 0.229 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 293.21' @ 12.26 hrs
Flood Elev= 300.43'

Device	Routing	Invert	Outlet Devices
#1	Primary	291.88'	**15.0" Round Culvert** L= 82.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 291.88' / 291.45' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.85 cfs @ 12.09 hrs HW=293.00' TW=292.79' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.85 cfs @ 2.10 fps)

Summary for Pond CB3: CB#3

Inflow Area = 1.67 ac, 66.11% Impervious, Inflow Depth > 3.70" for 25-yr event
Inflow = 5.99 cfs @ 12.09 hrs, Volume= 0.517 af
Outflow = 5.99 cfs @ 12.09 hrs, Volume= 0.517 af, Atten= 0%, Lag= 0.0 min
Primary = 5.99 cfs @ 12.09 hrs, Volume= 0.517 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 293.99' @ 12.11 hrs
Flood Elev= 296.31'

Device	Routing	Invert	Outlet Devices
#1	Primary	292.09'	**15.0" Round Culvert** L= 80.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.09' / 291.29' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=5.11 cfs @ 12.09 hrs HW=293.88' TW=292.97' (Dynamic Tailwater)
1=Culvert (Outlet Controls 5.11 cfs @ 4.16 fps)

Summary for Pond CB30: CB#30

Inflow Area = 0.32 ac, 91.05% Impervious, Inflow Depth > 4.97" for 25-yr event
Inflow = 1.58 cfs @ 12.09 hrs, Volume= 0.133 af
Outflow = 1.58 cfs @ 12.09 hrs, Volume= 0.133 af, Atten= 0%, Lag= 0.0 min
Primary = 1.58 cfs @ 12.09 hrs, Volume= 0.133 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 294.03' @ 12.16 hrs
Flood Elev= 296.31'

Device	Routing	Invert	Outlet Devices
#1	Primary	292.30'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.30' / 292.19' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=293.57' TW=293.88' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB4: CB#4

Inflow Area = 0.82 ac, 72.75% Impervious, Inflow Depth > 4.04" for 25-yr event
Inflow = 3.25 cfs @ 12.09 hrs, Volume= 0.278 af
Outflow = 3.25 cfs @ 12.09 hrs, Volume= 0.278 af, Atten= 0%, Lag= 0.0 min
Primary = 3.25 cfs @ 12.09 hrs, Volume= 0.278 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.18' @ 12.09 hrs
Flood Elev= 298.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.24'	**15.0" Round Culvert** L= 80.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.24' / 292.58' S= 0.0205 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.16 cfs @ 12.09 hrs HW=295.16' TW=293.88' (Dynamic Tailwater)
1=Culvert (Inlet Controls 3.16 cfs @ 3.27 fps)

Summary for Pond CB5: CB#5

Inflow Area = 0.53 ac, 77.00% Impervious, Inflow Depth > 4.25" for 25-yr event
Inflow = 2.20 cfs @ 12.09 hrs, Volume= 0.187 af
Outflow = 2.20 cfs @ 12.09 hrs, Volume= 0.187 af, Atten= 0%, Lag= 0.0 min
Primary = 2.20 cfs @ 12.09 hrs, Volume= 0.187 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.46' @ 12.11 hrs
Flood Elev= 298.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.56'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.56' / 294.34' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.91 cfs @ 12.09 hrs HW=295.43' TW=295.16' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.91 cfs @ 2.94 fps)

Summary for Pond CB80: CB#80

Inflow Area = 0.64 ac, 56.11% Impervious, Inflow Depth > 4.22" for 25-yr event
Inflow = 2.74 cfs @ 12.09 hrs, Volume= 0.224 af
Outflow = 2.74 cfs @ 12.09 hrs, Volume= 0.224 af, Atten= 0%, Lag= 0.0 min
Primary = 2.74 cfs @ 12.09 hrs, Volume= 0.224 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.87' @ 12.36 hrs
Flood Elev= 314.01'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.06'	**15.0" Round Culvert** L= 15.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.06' / 309.98' S= 0.0053 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=312.50' TW=312.63' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB800: CB#800

Inflow Area = 0.27 ac, 72.99% Impervious, Inflow Depth > 4.27" for 25-yr event
Inflow = 1.14 cfs @ 12.09 hrs, Volume= 0.095 af
Outflow = 1.14 cfs @ 12.09 hrs, Volume= 0.095 af, Atten= 0%, Lag= 0.0 min
Primary = 1.14 cfs @ 12.09 hrs, Volume= 0.095 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.87' @ 12.41 hrs
Flood Elev= 314.01'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.27'	**15.0" Round Culvert** L= 22.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.27' / 310.16' S= 0.0048 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=312.05' TW=312.46' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB9: CB#9

Inflow Area = 0.90 ac, 54.67% Impervious, Inflow Depth > 4.07" for 25-yr event
Inflow = 3.77 cfs @ 12.09 hrs, Volume= 0.307 af
Outflow = 3.77 cfs @ 12.09 hrs, Volume= 0.307 af, Atten= 0%, Lag= 0.0 min
Primary = 3.77 cfs @ 12.09 hrs, Volume= 0.307 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 315.08' @ 12.09 hrs
Flood Elev= 317.43'

Device	Routing	Invert	Outlet Devices
#1	Primary	314.04'	**15.0" Round Culvert** L= 203.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 314.04' / 310.50' S= 0.0174 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.67 cfs @ 12.09 hrs HW=315.06' TW=312.61' (Dynamic Tailwater)
1=Culvert (Inlet Controls 3.67 cfs @ 3.43 fps)

Summary for Pond CB90: CB#90

Inflow Area = 0.31 ac, 72.11% Impervious, Inflow Depth > 4.01" for 25-yr event
Inflow = 1.23 cfs @ 12.09 hrs, Volume= 0.105 af
Outflow = 1.23 cfs @ 12.09 hrs, Volume= 0.105 af, Atten= 0%, Lag= 0.0 min
Primary = 1.23 cfs @ 12.09 hrs, Volume= 0.105 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 315.35' @ 12.11 hrs
Flood Elev= 317.72'

Device	Routing	Invert	Outlet Devices
#1	Primary	314.74'	**15.0" Round Culvert** L= 29.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 314.74' / 314.14' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.04 cfs @ 12.09 hrs HW=315.33' TW=315.06' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.04 cfs @ 2.68 fps)

Summary for Pond DMH111: DMH#111

Inflow Area = 1.47 ac, 47.09% Impervious, Inflow Depth > 3.98" for 25-yr event
Inflow = 6.07 cfs @ 12.09 hrs, Volume= 0.487 af
Outflow = 6.07 cfs @ 12.09 hrs, Volume= 0.487 af, Atten= 0%, Lag= 0.0 min
Primary = 6.07 cfs @ 12.09 hrs, Volume= 0.487 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.78' @ 12.38 hrs
Flood Elev= 314.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	309.79'	**24.0" Round Culvert** L= 40.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 309.79' / 309.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=312.21' TW=312.31' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond DMH17: DMH#17

Inflow Area = 3.19 ac, 41.78% Impervious, Inflow Depth > 3.79" for 25-yr event
Inflow = 11.70 cfs @ 12.11 hrs, Volume= 1.008 af
Outflow = 11.70 cfs @ 12.11 hrs, Volume= 1.008 af, Atten= 0%, Lag= 0.0 min
Primary = 11.70 cfs @ 12.11 hrs, Volume= 1.008 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 276.56' @ 12.12 hrs
Flood Elev= 279.48'

Device	Routing	Invert	Outlet Devices
#1	Primary	274.89'	**24.0" Round Culvert** L= 279.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 274.89' / 272.09' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=10.63 cfs @ 12.11 hrs HW=276.53' TW=274.63' (Dynamic Tailwater)
1=Culvert (Outlet Controls 10.63 cfs @ 5.23 fps)

Summary for Pond DMH18: DMH#18

Inflow Area = 2.45 ac, 33.78% Impervious, Inflow Depth > 3.68" for 25-yr event
Inflow = 8.74 cfs @ 12.12 hrs, Volume= 0.751 af
Outflow = 8.74 cfs @ 12.12 hrs, Volume= 0.751 af, Atten= 0%, Lag= 0.0 min
Primary = 8.74 cfs @ 12.12 hrs, Volume= 0.751 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 277.86' @ 12.12 hrs
Flood Elev= 281.88'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.06'	**18.0" Round Culvert** L= 71.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 276.06' / 274.99' S= 0.0149 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=8.52 cfs @ 12.12 hrs HW=277.81' TW=276.53' (Dynamic Tailwater)
1=Culvert (Inlet Controls 8.52 cfs @ 4.82 fps)

Summary for Pond DMH2: DMH#2

Inflow Area = 1.67 ac, 66.11% Impervious, Inflow Depth > 3.70" for 25-yr event
Inflow = 5.99 cfs @ 12.09 hrs, Volume= 0.517 af
Outflow = 5.99 cfs @ 12.09 hrs, Volume= 0.517 af, Atten= 0%, Lag= 0.0 min
Primary = 5.99 cfs @ 12.09 hrs, Volume= 0.517 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 293.23' @ 12.25 hrs
Flood Elev= 297.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	291.19'	**18.0" Round Culvert** L= 50.2' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 291.19' / 291.04' S= 0.0030 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.76 cfs @ 12.09 hrs HW=292.97' TW=292.78' (Dynamic Tailwater)
1=Culvert (Inlet Controls 3.76 cfs @ 2.13 fps)

Summary for Pond DMH8: DMH#8

Inflow Area = 1.54 ac, 55.26% Impervious, Inflow Depth > 4.13" for 25-yr event
Inflow = 6.51 cfs @ 12.09 hrs, Volume= 0.530 af
Outflow = 6.51 cfs @ 12.09 hrs, Volume= 0.530 af, Atten= 0%, Lag= 0.0 min
Primary = 6.51 cfs @ 12.09 hrs, Volume= 0.530 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 312.84' @ 12.33 hrs
Flood Elev= 314.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	309.88'	**18.0" Round Culvert** L= 13.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 309.88' / 309.81' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.73 cfs @ 12.09 hrs HW=312.62' TW=312.31' (Dynamic Tailwater)
1=Culvert (Inlet Controls 4.73 cfs @ 2.67 fps)

Summary for Link A: Western Shadowbrook Drive Treatment Area

Inflow Area = 5.76 ac, 33.42% Impervious, Inflow Depth > 2.78" for 25-yr event
Inflow = 10.35 cfs @ 12.12 hrs, Volume= 1.333 af
Primary = 10.35 cfs @ 12.12 hrs, Volume= 1.333 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link B: pond at beginning of neighborhood

Inflow Area = 5.28 ac, 37.67% Impervious, Inflow Depth > 3.24" for 25-yr event
Inflow = 7.91 cfs @ 12.15 hrs, Volume= 1.424 af
Primary = 7.91 cfs @ 12.15 hrs, Volume= 1.424 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link C: Wetlands

Inflow Area = 9.23 ac, 21.04% Impervious, Inflow Depth > 2.86" for 25-yr event
Inflow = 15.49 cfs @ 12.21 hrs, Volume= 2.200 af
Primary = 15.49 cfs @ 12.21 hrs, Volume= 2.200 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-Q
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: Flow to Tammy Court Runoff Area=57,559 sf 17.28% Impervious Runoff Depth>4.25"
Flow Length=263' Slope=0.6600 '/' Tc=6.0 min CN=WQ Runoff=6.08 cfs 0.468 af

Subcatchment2S: Shadowbrook Dr CB1 Runoff Area=7,546 sf 57.32% Impervious Runoff Depth>4.75"
Flow Length=300' Slope=0.0200 '/' Tc=6.0 min CN=WQ Runoff=0.82 cfs 0.069 af

Subcatchment3S: Shadowbrook Dr CB2 Runoff Area=24,663 sf 8.93% Impervious Runoff Depth>3.60"
Flow Length=344' Tc=8.6 min CN=WQ Runoff=2.04 cfs 0.170 af

Subcatchment4S: Flow to Shadowbrook Runoff Area=11,312 sf 38.41% Impervious Runoff Depth>5.02"
Tc=6.0 min CN=WQ Runoff=1.39 cfs 0.109 af

Subcatchment5S: Canterberry Court Flow Runoff Area=36,412 sf 15.94% Impervious Runoff Depth>1.62"
Flow Length=187' Tc=6.0 min CN=WQ Runoff=1.04 cfs 0.113 af

Subcatchment6S: Lower Shadowbrook Dr Runoff Area=72,715 sf 12.69% Impervious Runoff Depth>1.40"
Flow Length=137' Tc=6.0 min CN=WQ Runoff=1.73 cfs 0.195 af

Subcatchment7S: Rear Overland Flow to Runoff Area=85,028 sf 6.43% Impervious Runoff Depth>3.49"
Flow Length=183' Tc=11.5 min CN=WQ Runoff=6.39 cfs 0.568 af

Subcatchment10S: Roadway Flow Runoff Area=13,692 sf 72.11% Impervious Runoff Depth>4.90"
Flow Length=307' Slope=0.0150 '/' Tc=6.0 min CN=WQ Runoff=1.49 cfs 0.128 af

Subcatchment11S: Roadway Flow Runoff Area=25,722 sf 45.39% Impervious Runoff Depth>5.09"
Flow Length=279' Tc=6.0 min CN=WQ Runoff=3.14 cfs 0.251 af

Subcatchment20S: Roadway Flow Runoff Area=2,774 sf 40.41% Impervious Runoff Depth>4.40"
Flow Length=65' Tc=6.0 min CN=WQ Runoff=0.29 cfs 0.023 af

Subcatchment21S: Roadway Flow Runoff Area=9,904 sf 37.65% Impervious Runoff Depth>4.37"
Flow Length=203' Tc=6.0 min CN=WQ Runoff=1.02 cfs 0.083 af

Subcatchment22S: Overland Flow to Pond Runoff Area=17,710 sf 12.85% Impervious Runoff Depth>3.16"
Flow Length=47' Slope=0.2127 '/' Tc=6.0 min CN=WQ Runoff=1.32 cfs 0.107 af

Subcatchment30S: Roadway Flow Runoff Area=14,714 sf 52.43% Impervious Runoff Depth>5.54"
Flow Length=276' Tc=6.0 min CN=WQ Runoff=1.96 cfs 0.156 af

Subcatchment31S: Roadway Flow Runoff Area=17,194 sf 38.30% Impervious Runoff Depth>4.41"
Flow Length=230' Tc=6.0 min CN=WQ Runoff=1.79 cfs 0.145 af

Subcatchment32S: Roadway Flow Runoff Area=21,651 sf 47.90% Impervious Runoff Depth>5.26"
Flow Length=223' Tc=6.0 min CN=WQ Runoff=2.74 cfs 0.218 af

Subcatchment33S: Roadway Flow Runoff Area=10,356 sf 52.43% Impervious Runoff Depth>4.37"
Flow Length=257' Tc=6.0 min CN=WQ Runoff=1.02 cfs 0.087 af

Subcatchment40S: Roadway Flow Runoff Area=11,686 sf 72.99% Impervious Runoff Depth>5.22"
Flow Length=263' Slope=0.0150 '/' Tc=6.0 min CN=WQ Runoff=1.38 cfs 0.117 af

Subcatchment41S: Roadway Flow Runoff Area=16,070 sf 43.83% Impervious Runoff Depth>5.20"
Flow Length=268' Tc=6.5 min CN=WQ Runoff=2.00 cfs 0.160 af

Subcatchment42S: Flow to CB#200 Runoff Area=29,920 sf 40.43% Impervious Runoff Depth>4.99"
Flow Length=385' Tc=6.0 min CN=WQ Runoff=3.63 cfs 0.286 af

Subcatchment50S: Roadway Flow Runoff Area=12,898 sf 58.95% Impervious Runoff Depth>4.13"
Flow Length=300' Tc=6.0 min CN=WQ Runoff=1.16 cfs 0.102 af

Subcatchment51S: Roadway Flow Runoff Area=12,915 sf 65.19% Impervious Runoff Depth>4.49"
Flow Length=163' Tc=6.0 min CN=WQ Runoff=1.28 cfs 0.111 af

Subcatchment60S: Roadway and Building Runoff Area=23,012 sf 40.57% Impervious Runoff Depth>3.06"
Flow Length=220' Tc=6.0 min CN=WQ Runoff=1.46 cfs 0.135 af

Subcatchment61S: Roadway Flow Runoff Area=7,564 sf 83.43% Impervious Runoff Depth>5.56"
Flow Length=152' Slope=0.0200 '/' Tc=6.0 min CN=WQ Runoff=0.95 cfs 0.080 af

Subcatchment62S: Bioretention Pond Area Runoff Area=6,453 sf 0.00% Impervious Runoff Depth>0.69"
Tc=6.0 min CN=39 Runoff=0.05 cfs 0.008 af

Subcatchment70S: Overland Flow to Runoff Area=128,858 sf 1.40% Impervious Runoff Depth>3.89"
Flow Length=745' Tc=14.6 min CN=WQ Runoff=10.11 cfs 0.959 af

Subcatchment71S: Roadway Flow Runoff Area=26,495 sf 66.16% Impervious Runoff Depth>5.06"
Flow Length=300' Tc=6.0 min CN=WQ Runoff=3.06 cfs 0.257 af

Subcatchment72S: House Flow to Pond Runoff Area=49,031 sf 39.15% Impervious Runoff Depth>3.42"
Flow Length=127' Tc=6.0 min CN=WQ Runoff=3.67 cfs 0.321 af

Subcatchment73S: Roadway Flow Runoff Area=5,932 sf 76.82% Impervious Runoff Depth>5.17"
Flow Length=200' Slope=0.0200 '/' Tc=6.0 min CN=WQ Runoff=0.69 cfs 0.059 af

Subcatchment74S: Area in Circle to Runoff Area=17,656 sf 37.64% Impervious Runoff Depth>3.38"
Flow Length=40' Slope=0.1000 '/' Tc=6.0 min CN=WQ Runoff=1.31 cfs 0.114 af

Subcatchment75S: Roadway Flow Runoff Area=13,639 sf 67.50% Impervious Runoff Depth>5.24"
Flow Length=196' Slope=0.0200 '/' Tc=6.0 min CN=WQ Runoff=1.64 cfs 0.137 af

Subcatchment76S: Roadway Flow Runoff Area=93,020 sf 28.84% Impervious Runoff Depth>4.55"
Flow Length=468' Tc=9.0 min CN=WQ Runoff=9.39 cfs 0.809 af

Subcatchment100S: Unit 1 Runoff Area=920 sf 100.00% Impervious Runoff Depth>6.53"
Tc=6.0 min CN=98 Runoff=0.14 cfs 0.011 af

Subcatchment101S: Units 2 & 3 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>6.53"
Tc=6.0 min CN=98 Runoff=0.27 cfs 0.023 af

Subcatchment102S: Units 4 & 5 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>6.53"
Tc=6.0 min CN=98 Runoff=0.27 cfs 0.023 af

Subcatchment103S: Units 6 & 7 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>6.53"
Tc=6.0 min CN=98 Runoff=0.27 cfs 0.023 af

Subcatchment104S: Units 8 & 9 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>6.53"
Tc=6.0 min CN=98 Runoff=0.27 cfs 0.023 af

Subcatchment105S: Units 11 & 10 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>6.53"
Tc=6.0 min CN=98 Runoff=0.27 cfs 0.023 af

Subcatchment106S: Units 13 & 12 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>6.53"
Tc=6.0 min CN=98 Runoff=0.27 cfs 0.023 af

Subcatchment107S: Units 15 & 14 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>6.53"
Tc=6.0 min CN=98 Runoff=0.27 cfs 0.023 af

Subcatchment108S: Units 17 & 16 Runoff Area=1,840 sf 100.00% Impervious Runoff Depth>6.53"
Tc=6.0 min CN=98 Runoff=0.27 cfs 0.023 af

Subcatchment109S: Unit 18 Runoff Area=920 sf 100.00% Impervious Runoff Depth>6.53"
Tc=6.0 min CN=98 Runoff=0.14 cfs 0.011 af

Reach 1R: Tammy Court Inflow=6.08 cfs 0.468 af
Outflow=6.08 cfs 0.468 af

Reach 2R: Ex CB1 Inflow=7.88 cfs 1.506 af
Outflow=7.88 cfs 1.506 af

Reach 3R: Ex CB 2 Inflow=2.04 cfs 0.170 af
Outflow=2.04 cfs 0.170 af

Reach 4R: Upper Shadowbrook Drive Drainage Inflow=6.96 cfs 1.023 af
Outflow=6.96 cfs 1.023 af

Reach 5R: Canterberry Ct Drainage Inflow=1.04 cfs 0.113 af
Outflow=1.04 cfs 0.113 af

Reach 6R: Lower Shadowbrook Dr CB Inflow=1.73 cfs 0.195 af
Outflow=1.73 cfs 0.195 af

Pond 1P: Bioretention Pond #1 Peak Elev=293.47' Storage=10,827 cf Inflow=10.97 cfs 0.929 af
Primary=6.09 cfs 0.915 af Secondary=0.00 cfs 0.000 af Outflow=6.09 cfs 0.915 af

Pond 2P: Pocket Pond #1 Peak Elev=313.16' Storage=25,017 cf Inflow=16.84 cfs 1.368 af
Outflow=6.98 cfs 1.331 af

Pond 3P: Pocket Pond #2 Peak Elev=275.70' Storage=22,963 cf Inflow=22.96 cfs 2.220 af
Primary=12.40 cfs 2.114 af Secondary=5.04 cfs 0.084 af Outflow=17.44 cfs 2.197 af

Pond 30P: Infiltration Pond #1 Peak Elev=281.24' Storage=2,550 cf Inflow=1.31 cfs 0.114 af
Outflow=0.07 cfs 0.080 af

Pond 31P: Infiltration Pond #2 Peak Elev=275.74' Storage=6,686 cf Inflow=3.67 cfs 0.321 af
Discarded=0.11 cfs 0.144 af Primary=0.19 cfs 0.098 af Outflow=0.29 cfs 0.242 af

Pond 100: AD#100 Peak Elev=296.01' Inflow=0.14 cfs 0.011 af
8.0" Round Culvert n=0.013 L=58.1' S=0.0251 '/' Outflow=0.14 cfs 0.011 af

Pond 101: AD#101 Peak Elev=295.21' Inflow=0.41 cfs 0.034 af
8.0" Round Culvert n=0.013 L=37.0' S=0.0500 '/' Outflow=0.41 cfs 0.034 af

Pond 102: AD#102 Peak Elev=295.23' Inflow=0.55 cfs 0.046 af
8.0" Round Culvert n=0.013 L=27.4' S=0.0201 '/' Outflow=0.55 cfs 0.046 af

Pond 103: AD#103 Peak Elev=295.23' Inflow=0.27 cfs 0.023 af
8.0" Round Culvert n=0.013 L=59.0' S=0.0200 '/' Outflow=0.27 cfs 0.023 af

Pond 104: AD#104 Peak Elev=296.40' Inflow=1.51 cfs 0.126 af
8.0" Round Culvert n=0.013 L=16.6' S=0.0367 '/' Outflow=1.51 cfs 0.126 af

Pond 105: AD#105 Peak Elev=298.40' Inflow=1.23 cfs 0.103 af
8.0" Round Culvert n=0.013 L=53.8' S=0.0400 '/' Outflow=1.23 cfs 0.103 af

Pond 106: AD#106 Peak Elev=300.52' Inflow=0.96 cfs 0.080 af
8.0" Round Culvert n=0.013 L=55.9' S=0.0401 '/' Outflow=0.96 cfs 0.080 af

Pond 107: AD#107 Peak Elev=303.40' Inflow=0.68 cfs 0.057 af
8.0" Round Culvert n=0.013 L=64.0' S=0.0450 '/' Outflow=0.68 cfs 0.057 af

Pond 108: AD#108 Peak Elev=306.22' Inflow=0.41 cfs 0.034 af
8.0" Round Culvert n=0.013 L=64.5' S=0.0448 '/' Outflow=0.41 cfs 0.034 af

Pond 109: AD#109 Peak Elev=308.89' Inflow=0.14 cfs 0.011 af
8.0" Round Culvert n=0.013 L=49.9' S=0.0549 '/' Outflow=0.14 cfs 0.011 af

Pond CB11: CB#11 Peak Elev=313.29' Inflow=7.51 cfs 0.605 af
18.0" Round Culvert n=0.013 L=30.3' S=0.0050 '/' Outflow=7.51 cfs 0.605 af

Pond CB110: CB#110 Peak Elev=313.30' Inflow=1.96 cfs 0.156 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0050 '/' Outflow=1.96 cfs 0.156 af

Pond CB12: CB#12 Peak Elev=314.03' Inflow=3.76 cfs 0.304 af
15.0" Round Culvert n=0.013 L=106.0' S=0.0263 '/' Outflow=3.76 cfs 0.304 af

Pond CB120: CB#120 Peak Elev=314.34' Inflow=2.74 cfs 0.218 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0100 '/' Outflow=2.74 cfs 0.218 af

Pond CB14: CB#14 Peak Elev=310.88' Inflow=7.41 cfs 1.414 af
15.0" Round Culvert n=0.013 L=37.9' S=0.0150 '/' Outflow=7.41 cfs 1.414 af

Pond CB15: CB#15 Peak Elev=309.37' Inflow=7.53 cfs 1.437 af
15.0" Round Culvert n=0.013 L=120.0' S=0.0539 '/' Outflow=7.53 cfs 1.437 af

Pond CB170: CB#170 Peak Elev=278.93' Inflow=3.74 cfs 0.315 af
15.0" Round Culvert n=0.013 L=36.7' S=0.0199 '/' Outflow=3.74 cfs 0.315 af

Pond CB171: CB#171 Peak Elev=279.28' Inflow=3.06 cfs 0.257 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0100 '/' Outflow=3.06 cfs 0.257 af

Pond CB19: CB #19 Peak Elev=279.94' Inflow=10.98 cfs 0.946 af
18.0" Round Culvert n=0.013 L=33.8' S=0.0151 '/' Outflow=10.98 cfs 0.946 af

Pond CB20: CB #20 Peak Elev=280.81' Inflow=9.39 cfs 0.809 af
18.0" Round Culvert n=0.013 L=22.0' S=0.0200 '/' Outflow=9.39 cfs 0.809 af

Pond CB201: CB#201 Peak Elev=293.57' Inflow=3.63 cfs 0.286 af
15.0" Round Culvert n=0.013 L=82.0' S=0.0052 '/' Outflow=3.63 cfs 0.286 af

Pond CB3: CB#3 Peak Elev=295.14' Inflow=7.31 cfs 0.635 af
15.0" Round Culvert n=0.013 L=80.0' S=0.0100 '/' Outflow=7.31 cfs 0.635 af

Pond CB30: CB#30 Peak Elev=295.20' Inflow=1.90 cfs 0.161 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0050 '/' Outflow=1.90 cfs 0.161 af

Pond CB4: CB#4 Peak Elev=295.54' Inflow=3.94 cfs 0.339 af
15.0" Round Culvert n=0.013 L=80.9' S=0.0205 '/' Outflow=3.94 cfs 0.339 af

Pond CB5: CB#5 Peak Elev=295.65' Inflow=2.67 cfs 0.228 af
15.0" Round Culvert n=0.013 L=22.0' S=0.0100 '/' Outflow=2.67 cfs 0.228 af

Pond CB80: CB#80 Peak Elev=313.55' Inflow=3.37 cfs 0.276 af
15.0" Round Culvert n=0.013 L=15.1' S=0.0053 '/' Outflow=3.37 cfs 0.276 af

Pond CB800: CB#800 Peak Elev=313.57' Inflow=1.38 cfs 0.117 af
15.0" Round Culvert n=0.013 L=22.7' S=0.0048 '/' Outflow=1.38 cfs 0.117 af

Pond CB9: CB#9 Peak Elev=315.27' Inflow=4.63 cfs 0.379 af
15.0" Round Culvert n=0.013 L=203.6' S=0.0174 '/' Outflow=4.63 cfs 0.379 af

Pond CB90: CB#90 Peak Elev=315.48' Inflow=1.49 cfs 0.128 af
15.0" Round Culvert n=0.013 L=29.8' S=0.0201 '/' Outflow=1.49 cfs 0.128 af

Pond DMH111: DMH#111 Peak Elev=313.19' Inflow=7.51 cfs 0.605 af
24.0" Round Culvert n=0.013 L=40.3' S=0.0050 '/' Outflow=7.51 cfs 0.605 af

Pond DMH17: DMH#17 Peak Elev=276.89' Inflow=14.58 cfs 1.261 af
24.0" Round Culvert n=0.013 L=279.8' S=0.0100 '/' Outflow=14.58 cfs 1.261 af

Pond DMH18: DMH#18 Peak Elev=278.49' Inflow=10.98 cfs 0.946 af
18.0" Round Culvert n=0.013 L=71.6' S=0.0149 '/' Outflow=10.98 cfs 0.946 af

Pond DMH2: DMH#2 Peak Elev=293.67' Inflow=7.31 cfs 0.635 af
18.0" Round Culvert n=0.013 L=50.2' S=0.0030 '/' Outflow=7.31 cfs 0.635 af

Pond DMH8: DMH#8 Peak Elev=313.37' Inflow=8.01 cfs 0.655 af
18.0" Round Culvert n=0.013 L=13.4' S=0.0052 '/' Outflow=8.01 cfs 0.655 af

Link A: Western Shadowbrook Drive Treatment Area Inflow=14.30 cfs 1.687 af
Primary=14.30 cfs 1.687 af

Link B: pond at beginning of neighborhood Inflow=10.33 cfs 1.788 af
Primary=10.33 cfs 1.788 af

Link C: Wetlands Inflow=22.54 cfs 2.862 af
Primary=22.54 cfs 2.862 af

Total Runoff Area = 20.68 ac Runoff Volume = 6.749 af Average Runoff Depth = 3.92"
70.94% Pervious = 14.67 ac 29.06% Impervious = 6.01 ac

Summary for Subcatchment 1S: Flow to Tammy Court

Runoff = 6.08 cfs @ 12.09 hrs, Volume= 0.468 af, Depth> 4.25"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
3,365	98	Roofs, HSG D
6,582	98	Roofs, HSG A
34,775	80	>75% Grass cover, Good, HSG D
8,430	39	>75% Grass cover, Good, HSG A
4,407	77	Woods, Good, HSG D
57,559		Weighted Average
47,612		82.72% Pervious Area
9,947		17.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	50	0.6600	0.57		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.6	213	0.6600	5.69		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.1	263	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 2S: Shadowbrook Dr CB1

Runoff = 0.82 cfs @ 12.09 hrs, Volume= 0.069 af, Depth> 4.75"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
4,085	98	Paved parking, HSG A
240	98	Roofs, HSG D
1,432	80	>75% Grass cover, Good, HSG D
1,789	39	>75% Grass cover, Good, HSG A
7,546		Weighted Average
3,221		42.68% Pervious Area
4,325		57.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.5	250	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 3S: Shadowbrook Dr CB2

Runoff = 2.04 cfs @ 12.12 hrs, Volume= 0.170 af, Depth> 3.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
257	98	Roofs, HSG A
6,196	80	>75% Grass cover, Good, HSG D
5,530	39	>75% Grass cover, Good, HSG A
10,329	77	Woods, Good, HSG D
405	30	Woods, Good, HSG A
1,946	98	Paved parking, HSG A
24,663		Weighted Average
22,460		91.07% Pervious Area
2,203		8.93% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
1.9	226	0.1500	1.94		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
0.3	48	0.1300	2.52		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.1	20	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
8.6	344	Total			

Summary for Subcatchment 4S: Flow to Shadowbrook Dr CBs

Runoff = 1.39 cfs @ 12.09 hrs, Volume= 0.109 af, Depth> 5.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
2,537	80	>75% Grass cover, Good, HSG D
400	39	>75% Grass cover, Good, HSG A
0	74	>75% Grass cover, Good, HSG C
4,345	98	Paved parking, HSG A
4,030	77	Woods, Good, HSG D
11,312		Weighted Average
6,967		61.59% Pervious Area
4,345		38.41% Impervious Area

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

Summary for Subcatchment 5S: Canterberry Court Flow

Runoff = 1.04 cfs @ 12.10 hrs, Volume= 0.113 af, Depth> 1.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
1,564	98	Roofs, HSG A
30,607	39	>75% Grass cover, Good, HSG A
4,241	98	Paved parking, HSG A
36,412		Weighted Average
30,607		84.06% Pervious Area
5,805		15.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.7	137	0.2000	3.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
3.3	187	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 6S: Lower Shadowbrook Dr Flow

Runoff = 1.73 cfs @ 12.11 hrs, Volume= 0.195 af, Depth> 1.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
1,440	98	Roofs, HSG A
3,236	30	Woods, Good, HSG A
60,250	39	>75% Grass cover, Good, HSG A
7,789	98	Paved parking, HSG A
72,715		Weighted Average
63,486		87.31% Pervious Area
9,229		12.69% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.1	38	0.4500	4.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	49	0.3600	3.00		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
3.0	137	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 7S: Rear Overland Flow to Wetland

Runoff = 6.39 cfs @ 12.16 hrs, Volume= 0.568 af, Depth> 3.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
2,935	98	Roofs, HSG D
2,417	98	Roofs, HSG A
118	98	Roofs, HSG C
10,710	80	>75% Grass cover, Good, HSG D
8,039	39	>75% Grass cover, Good, HSG A
4,292	74	>75% Grass cover, Good, HSG C
19,271	77	Woods, Good, HSG D
26,053	70	Woods, Good, HSG C
11,193	55	Woods, Good, HSG B
85,028		Weighted Average
79,558		93.57% Pervious Area
5,470		6.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.8	50	0.0400	0.08		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
1.7	133	0.0650	1.27		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
11.5	183	Total			

Summary for Subcatchment 10S: Roadway Flow

Runoff = 1.49 cfs @ 12.09 hrs, Volume= 0.128 af, Depth> 4.90"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
3,052	98	Roofs, HSG A
12	80	>75% Grass cover, Good, HSG D
3,807	39	>75% Grass cover, Good, HSG A
506	98	Paved parking, HSG D
6,315	98	Roofs, HSG A
13,692		Weighted Average
3,819		27.89% Pervious Area
9,873		72.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0150	1.01		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.7	257	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.5	307	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 11S: Roadway Flow

Runoff = 3.14 cfs @ 12.09 hrs, Volume= 0.251 af, Depth> 5.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
6,240	98	Roofs, HSG D
11,906	80	>75% Grass cover, Good, HSG D
2,142	39	>75% Grass cover, Good, HSG A
1,643	98	Roofs, HSG D
3,791	98	Roofs, HSG A
25,722		Weighted Average
14,048		54.61% Pervious Area
11,674		45.39% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	24	0.3300	0.37		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.3	26	0.0600	0.19		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.8	46	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.2	183	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
5.4	279	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 20S: Roadway Flow

Runoff = 0.29 cfs @ 12.09 hrs, Volume= 0.023 af, Depth> 4.40"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
396	98	Roofs, HSG D
993	80	>75% Grass cover, Good, HSG D
660	39	>75% Grass cover, Good, HSG A
725	98	Paved parking, HSG A
2,774		Weighted Average
1,653		59.59% Pervious Area
1,121		40.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	50	0.0500	0.20		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.1	15	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.2	65	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 21S: Roadway Flow

Runoff = 1.02 cfs @ 12.09 hrs, Volume= 0.083 af, Depth> 4.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
1,651	98	Roofs, HSG D
365	98	Roofs, HSG A
3,879	80	>75% Grass cover, Good, HSG D
2,296	39	>75% Grass cover, Good, HSG A
4	98	Paved parking, HSG D
1,709	98	Paved parking, HSG A
9,904		Weighted Average
6,175		62.35% Pervious Area
3,729		37.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	50	0.1200	0.29		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.9	98	0.0700	1.85		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	55	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.1	203	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 22S: Overland Flow to Pond

Runoff = 1.32 cfs @ 12.09 hrs, Volume= 0.107 af, Depth> 3.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
1,512	98	Roofs, HSG D
645	98	Roofs, HSG A
8,034	80	>75% Grass cover, Good, HSG D
7,400	39	>75% Grass cover, Good, HSG A
119	98	Paved parking, HSG A
17,710		Weighted Average
15,434		87.15% Pervious Area
2,276		12.85% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.2	47	0.2127	0.36		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.2	47	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 30S: Roadway Flow

Runoff = 1.96 cfs @ 12.09 hrs, Volume= 0.156 af, Depth> 5.54"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
4,540	98	Paved parking, HSG D
6,935	80	>75% Grass cover, Good, HSG D
65	39	>75% Grass cover, Good, HSG A
1,636	98	Paved parking, HSG D
1,538	98	Paved parking, HSG A
14,714		Weighted Average
7,000		47.57% Pervious Area
7,714		52.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
1.1	64	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.9	162	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.6	276	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 31S: Roadway Flow

Runoff = 1.79 cfs @ 12.09 hrs, Volume= 0.145 af, Depth> 4.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
2,626	98	Paved parking, HSG D
1,214	98	Paved parking, HSG A
6,749	80	>75% Grass cover, Good, HSG D
3,860	39	>75% Grass cover, Good, HSG A
2,745	98	Paved parking, HSG A
17,194		Weighted Average
10,609		61.70% Pervious Area
6,585		38.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.1	50	0.2800	0.40		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.3	60	0.2000	3.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	120	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
3.1	230	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 32S: Roadway Flow

Runoff = 2.74 cfs @ 12.09 hrs, Volume= 0.218 af, Depth> 5.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
5,015	98	Roofs, HSG D
8,256	80	>75% Grass cover, Good, HSG D
991	39	>75% Grass cover, Good, HSG A
1,964	98	Paved parking, HSG D
3,391	98	Paved parking, HSG A
2,034	77	Woods, Good, HSG D
21,651		Weighted Average
11,281		52.10% Pervious Area
10,370		47.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	40	0.2500	0.17		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
0.7	10	0.2000	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.3	63	0.3300	4.02		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.6	110	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
5.6	223	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 33S: Roadway Flow

Runoff = 1.02 cfs @ 12.09 hrs, Volume= 0.087 af, Depth> 4.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
948	98	Roofs, HSG D
395	98	Roofs, HSG A
1,701	80	>75% Grass cover, Good, HSG D
3,225	39	>75% Grass cover, Good, HSG A
4,087	98	Paved parking, HSG A
10,356		Weighted Average
4,926		47.57% Pervious Area
5,430		52.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.2	37	0.2000	3.13		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.0	170	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
3.8	257	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 40S: Roadway Flow

Runoff = 1.38 cfs @ 12.09 hrs, Volume= 0.117 af, Depth> 5.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
752	98	Roofs, HSG D
1,321	98	Roofs, HSG A
391	98	Roofs, HSG C
780	80	>75% Grass cover, Good, HSG D
2,326	39	>75% Grass cover, Good, HSG A
50	74	>75% Grass cover, Good, HSG C
1,115	98	Paved parking, HSG D
4,921	98	Paved parking, HSG A
30	98	Paved parking, HSG C
11,686		Weighted Average
3,156		27.01% Pervious Area
8,530		72.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	50	0.0150	1.01		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.4	213	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
2.2	263	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 41S: Roadway Flow

Runoff = 2.00 cfs @ 12.09 hrs, Volume= 0.160 af, Depth> 5.20"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
2,949	98	Roofs, HSG D
157	98	Roofs, HSG A
8,262	80	>75% Grass cover, Good, HSG D
765	39	>75% Grass cover, Good, HSG A
1,393	98	Paved parking, HSG D
2,544	98	Paved parking, HSG A
16,070		Weighted Average
9,027		56.17% Pervious Area
7,043		43.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	40	0.0250	0.15		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.5	10	0.3300	0.31		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.6	80	0.1000	2.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.9	138	0.0150	2.49		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
6.5	268	Total			

Summary for Subcatchment 42S: Flow to CB#200

Runoff = 3.63 cfs @ 12.09 hrs, Volume= 0.286 af, Depth> 4.99"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
1,682	39	>75% Grass cover, Good, HSG A
10,383	80	>75% Grass cover, Good, HSG D
3,530	74	>75% Grass cover, Good, HSG C
6,936	98	Paved parking, HSG A
2,228	77	Woods, Good, HSG D
170	98	Roofs, HSG A
90	98	Roofs, HSG C
2,670	98	Roofs, HSG D
1,237	98	Roofs, HSG A
994	98	Roofs, HSG C
29,920		Weighted Average
17,823		59.57% Pervious Area
12,097		40.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
1.2	335	0.0500	4.54		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.9	385	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 50S: Roadway Flow

Runoff = 1.16 cfs @ 12.09 hrs, Volume= 0.102 af, Depth> 4.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
5,295	39	>75% Grass cover, Good, HSG A
7,603	98	Paved parking, HSG A
12,898		Weighted Average
5,295		41.05% Pervious Area
7,603		58.95% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	50	0.0550	1.71		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.9	250	0.0500	4.54		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.4	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 51S: Roadway Flow

Runoff = 1.28 cfs @ 12.09 hrs, Volume= 0.111 af, Depth> 4.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
3,027	98	Roofs, HSG A
4,496	39	>75% Grass cover, Good, HSG A
5,392	98	Paved parking, HSG A
12,915		Weighted Average
4,496		34.81% Pervious Area
8,419		65.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	50	0.0800	0.25		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
0.6	76	0.0900	2.10		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.1	37	0.0500	4.54		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.1	163	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 60S: Roadway and Building Flow

Runoff = 1.46 cfs @ 12.09 hrs, Volume= 0.135 af, Depth> 3.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
3,213	98	Roofs, HSG A
13,675	39	>75% Grass cover, Good, HSG A
6,124	98	Paved parking, HSG A
23,012		Weighted Average
13,675		59.43% Pervious Area
9,337		40.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	50	0.1600	0.32		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.6	155	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.1	15	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
5.3	220	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 61S: Roadway Flow

Runoff = 0.95 cfs @ 12.09 hrs, Volume= 0.080 af, Depth> 5.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
1,253	39	>75% Grass cover, Good, HSG A
6,311	98	Paved parking, HSG A
7,564		Weighted Average
1,253		16.57% Pervious Area
6,311		83.43% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.6	102	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.3	152	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 62S: Bioretention Pond Area

Runoff = 0.05 cfs @ 12.15 hrs, Volume= 0.008 af, Depth> 0.69"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
6,453	39	>75% Grass cover, Good, HSG A
6,453		100.00% Pervious Area

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

Summary for Subcatchment 70S: Overland Flow to Detention Pond

Runoff = 10.11 cfs @ 12.20 hrs, Volume= 0.959 af, Depth> 3.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
607	98	Roofs, HSG D
1,192	98	Roofs, HSG A
24,819	80	>75% Grass cover, Good, HSG D
13,185	39	>75% Grass cover, Good, HSG A
89,055	77	Woods, Good, HSG D
128,858		Weighted Average
127,059		98.60% Pervious Area
1,799		1.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	50	0.0800	0.11		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
3.6	391	0.1300	1.80		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
3.5	304	0.0430	1.45		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
14.6	745	Total			

Summary for Subcatchment 71S: Roadway Flow

Runoff = 3.06 cfs @ 12.09 hrs, Volume= 0.257 af, Depth> 5.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
2,572	98	Roofs, HSG D
3,565	98	Roofs, HSG A
3,581	80	>75% Grass cover, Good, HSG D
5,385	39	>75% Grass cover, Good, HSG A
1,533	98	Paved parking, HSG D
9,859	98	Paved parking, HSG A
26,495		Weighted Average
8,966		33.84% Pervious Area
17,529		66.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	50	0.0800	0.25		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
1.5	250	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
4.9	300	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 72S: House Flow to Pond

Runoff = 3.67 cfs @ 12.09 hrs, Volume= 0.321 af, Depth> 3.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
2,848	98	Roofs, HSG D
9,725	98	Roofs, HSG A
23,884	39	>75% Grass cover, Good, HSG A
4,734	80	>75% Grass cover, Good, HSG D
1,216	74	>75% Grass cover, Good, HSG C
1,330	98	Paved parking, HSG D
5,294	98	Paved parking, HSG A
49,031		Weighted Average
29,834		60.85% Pervious Area
19,197		39.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.3	77	0.3100	3.90		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.0	127	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 73S: Roadway Flow

Runoff = 0.69 cfs @ 12.09 hrs, Volume= 0.059 af, Depth> 5.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
1,375	39	>75% Grass cover, Good, HSG A
4,557	98	Paved parking, HSG A
5,932		Weighted Average
1,375		23.18% Pervious Area
4,557		76.82% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.9	150	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.6	200	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 74S: Area in Circle to Infiltration Pond

Runoff = 1.31 cfs @ 12.09 hrs, Volume= 0.114 af, Depth> 3.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
4,851	98	Roofs, HSG A
8,558	39	>75% Grass cover, Good, HSG A
1,547	98	Roofs, HSG D
248	98	Roofs, HSG C
1,588	80	>75% Grass cover, Good, HSG D
864	74	>75% Grass cover, Good, HSG C
17,656		Weighted Average
11,010		62.36% Pervious Area
6,646		37.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.6	40	0.1000	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 2.89"
2.6	40	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 75S: Roadway Flow

Runoff = 1.64 cfs @ 12.09 hrs, Volume= 0.137 af, Depth> 5.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
295	98	Roofs, HSG D
1,380	98	Roofs, HSG A
2,209	80	>75% Grass cover, Good, HSG D
2,224	39	>75% Grass cover, Good, HSG A
4,186	98	Paved parking, HSG D
3,345	98	Paved parking, HSG A
13,639		Weighted Average
4,433		32.50% Pervious Area
9,206		67.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	50	0.0200	1.14		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 2.89"
0.8	146	0.0200	2.87		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.5	196	Total, Increased to minimum Tc = 6.0 min			

Summary for Subcatchment 76S: Roadway Flow

Runoff = 9.39 cfs @ 12.13 hrs, Volume= 0.809 af, Depth> 4.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
14,560	98	Roofs, HSG D
1,133	98	Roofs, HSG A
24,384	80	>75% Grass cover, Good, HSG D
10,102	39	>75% Grass cover, Good, HSG A
31,709	77	Woods, Good, HSG D
7,686	98	Paved parking, HSG D
3,446	98	Paved parking, HSG A
93,020		Weighted Average
66,195		71.16% Pervious Area
26,825		28.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	50	0.1200	0.13		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 2.89"
0.9	130	0.2150	2.32		**Shallow Concentrated Flow,** Woodland Kv= 5.0 fps
1.0	120	0.0830	2.02		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.8	168	0.0300	3.52		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
9.0	468	Total			

Summary for Subcatchment 100S: Unit 1

Runoff = 0.14 cfs @ 12.09 hrs, Volume= 0.011 af, Depth> 6.53"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
920	98	Roofs, HSG A
920		100.00% Impervious Area

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

Summary for Subcatchment 101S: Units 2 & 3

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 0.023 af, Depth> 6.53"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 102S: Units 4 & 5

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 0.023 af, Depth> 6.53"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 103S: Units 6 & 7

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 0.023 af, Depth> 6.53"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 104S: Units 8 & 9

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 0.023 af, Depth> 6.53"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 105S: Units 11 & 10

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 0.023 af, Depth> 6.53"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 106S: Units 13 & 12

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 0.023 af, Depth> 6.53"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 107S: Units 15 & 14

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 0.023 af, Depth> 6.53"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 108S: Units 17 & 16

Runoff = 0.27 cfs @ 12.09 hrs, Volume= 0.023 af, Depth> 6.53"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
1,840	98	Roofs, HSG A
1,840		100.00% Impervious Area

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

Summary for Subcatchment 109S: Unit 18

Runoff = 0.14 cfs @ 12.09 hrs, Volume= 0.011 af, Depth> 6.53"

Runoff by SCS TR-20 method, UH=SCS, Weighted-Q, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Type III 24-hr 50-yr Rainfall=6.77"

Area (sf)	CN	Description
920	98	Roofs, HSG A
920		100.00% Impervious Area

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

Summary for Reach 1R: Tammy Court

Inflow Area = 1.32 ac, 17.28% Impervious, Inflow Depth > 4.25" for 50-yr event
Inflow = 6.08 cfs @ 12.09 hrs, Volume= 0.468 af
Outflow = 6.08 cfs @ 12.09 hrs, Volume= 0.468 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 2R: Ex CB1

Inflow Area = 3.88 ac, 46.55% Impervious, Inflow Depth > 4.66" for 50-yr event
Inflow = 7.88 cfs @ 12.30 hrs, Volume= 1.506 af
Outflow = 7.88 cfs @ 12.30 hrs, Volume= 1.506 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 3R: Ex CB 2

Inflow Area = 0.57 ac, 8.93% Impervious, Inflow Depth > 3.60" for 50-yr event
Inflow = 2.04 cfs @ 12.12 hrs, Volume= 0.170 af
Outflow = 2.04 cfs @ 12.12 hrs, Volume= 0.170 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 4R: Upper Shadowbrook Drive Drainage

Inflow Area = 2.77 ac, 53.61% Impervious, Inflow Depth > 4.43" for 50-yr event
Inflow = 6.96 cfs @ 12.17 hrs, Volume= 1.023 af
Outflow = 6.96 cfs @ 12.17 hrs, Volume= 1.023 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 5R: Canterberry Ct Drainage

Inflow Area = 0.84 ac, 15.94% Impervious, Inflow Depth > 1.62" for 50-yr event
Inflow = 1.04 cfs @ 12.10 hrs, Volume= 0.113 af
Outflow = 1.04 cfs @ 12.10 hrs, Volume= 0.113 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Reach 6R: Lower Shadowbrook Dr CB

Inflow Area = 1.67 ac, 12.69% Impervious, Inflow Depth > 1.40" for 50-yr event
Inflow = 1.73 cfs @ 12.11 hrs, Volume= 0.195 af
Outflow = 1.73 cfs @ 12.11 hrs, Volume= 0.195 af, Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Pond 1P: Bioretention Pond #1

Inflow Area = 2.51 ac, 55.18% Impervious, Inflow Depth > 4.44" for 50-yr event
Inflow = 10.97 cfs @ 12.09 hrs, Volume= 0.929 af
Outflow = 6.09 cfs @ 12.22 hrs, Volume= 0.915 af, Atten= 44%, Lag= 7.9 min
Primary = 6.09 cfs @ 12.22 hrs, Volume= 0.915 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 293.47' @ 12.22 hrs Surf.Area= 4,349 sf Storage= 10,827 cf

Plug-Flow detention time= 76.6 min calculated for 0.913 af (98% of inflow)
Center-of-Mass det. time= 66.6 min (828.4 - 761.8)

Volume	Invert	Avail.Storage	Storage Description
#1	288.00'	13,264 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
288.00	434	0	0
290.00	1,140	1,574	1,574
291.00	1,598	1,369	2,943
292.00	3,160	2,379	5,322
294.00	4,782	7,942	13,264

Device	Routing	Invert	Outlet Devices
#1	Secondary	293.80'	**4.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64
#2	Device 5	288.00'	**10.000 in/hr Exfiltration over Surface area**
#3	Device 5	292.10'	**15.0" Vert. Orifice/Grate** C= 0.600
#4	Device 5	293.50'	**48.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Primary	285.00'	**12.0" Round Culvert** L= 55.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 285.00' / 283.04' S= 0.0354 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=6.06 cfs @ 12.22 hrs HW=293.46' TW=0.00' (Dynamic Tailwater)
└─**5=Culvert** (Passes 6.06 cfs of 10.67 cfs potential flow)
  ├─**2=Exfiltration** (Exfiltration Controls 1.00 cfs)
  ├─**3=Orifice/Grate** (Orifice Controls 5.06 cfs @ 4.12 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=288.00' TW=0.00' (Dynamic Tailwater)
└─**1=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 2P: Pocket Pond #1

Inflow Area = 3.42 ac, 46.71% Impervious, Inflow Depth > 4.80" for 50-yr event
Inflow = 16.84 cfs @ 12.09 hrs, Volume= 1.368 af
Outflow = 6.98 cfs @ 12.31 hrs, Volume= 1.331 af, Atten= 59%, Lag= 13.2 min
Primary = 6.98 cfs @ 12.31 hrs, Volume= 1.331 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Starting Elev= 309.79' Surf.Area= 3,009 sf Storage= 5,826 cf
Peak Elev= 313.16' @ 12.32 hrs Surf.Area= 8,355 sf Storage= 25,017 cf (19,191 cf above start)

Plug-Flow detention time= 181.0 min calculated for 1.197 af (88% of inflow)
Center-of-Mass det. time= 83.1 min (853.2 - 770.2)

Volume	Invert	Avail.Storage	Storage Description
#1	306.00'	27,930 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
306.00	306	196.0	0	0	306
308.00	1,616	240.0	1,750	1,750	1,894
310.00	3,201	285.0	4,728	6,478	3,846
312.00	6,785	438.0	9,764	16,242	12,678
313.50	8,844	470.0	11,688	27,930	15,088

Device	Routing	Invert	Outlet Devices
#1	Device 4	309.80'	**4.5" Vert. Orifice/Grate** C= 0.600
#2	Device 4	311.50'	**14.0" Vert. Orifice/Grate** C= 0.600
#3	Device 4	313.10'	**48.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Primary	309.75'	**15.0" Round Culvert** L= 93.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 309.75' / 307.89' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=6.90 cfs @ 12.31 hrs HW=313.16' TW=310.84' (Dynamic Tailwater)
└**4=Culvert** (Passes 6.90 cfs of 7.83 cfs potential flow)
  ├**1=Orifice/Grate** (Orifice Controls 0.81 cfs @ 7.34 fps)
  ├**2=Orifice/Grate** (Orifice Controls 5.34 cfs @ 4.99 fps)
  └**3=Orifice/Grate** (Weir Controls 0.75 cfs @ 0.80 fps)

Summary for Pond 3P: Pocket Pond #2

Inflow Area = 6.15 ac, 22.36% Impervious, Inflow Depth > 4.33" for 50-yr event
Inflow = 22.96 cfs @ 12.14 hrs, Volume= 2.220 af
Outflow = 17.44 cfs @ 12.27 hrs, Volume= 2.197 af, Atten= 24%, Lag= 8.2 min
Primary = 12.40 cfs @ 12.27 hrs, Volume= 2.114 af
Secondary = 5.04 cfs @ 12.27 hrs, Volume= 0.084 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Starting Elev= 271.98' Surf.Area= 2,847 sf Storage= 5,675 cf
Peak Elev= 275.70' @ 12.27 hrs Surf.Area= 6,569 sf Storage= 22,963 cf (17,288 cf above start)

Plug-Flow detention time= 83.0 min calculated for 2.063 af (93% of inflow)
Center-of-Mass det. time= 25.4 min (821.4 - 796.0)

Volume	Invert	Avail.Storage	Storage Description
#1	268.00'	25,013 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
268.00	408	0	0
269.00	790	599	599
270.00	1,250	1,020	1,619
272.00	2,863	4,113	5,732
274.00	4,762	7,625	13,357
276.00	6,894	11,656	25,013

Device	Routing	Invert	Outlet Devices
#1	Device 4	272.00'	**9.0" Vert. Orifice/Grate** C= 0.600
#2	Secondary	275.35'	**10.0' long x 4.0' 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) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32
#3	Device 4	273.80'	**24.0" W x 10.0" H Vert. Orifice/Grate** C= 0.600

#4	Primary	272.00'	**18.0" Round Culvert** L= 105.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 272.00' / 271.57' S= 0.0041 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#5	Primary	275.70'	**48.0" x 48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=12.37 cfs @ 12.27 hrs HW=275.68' TW=0.00' (Dynamic Tailwater)
- **4=Culvert** (Barrel Controls 12.37 cfs @ 7.00 fps)
  - **1=Orifice/Grate** (Passes < 3.87 cfs potential flow)
  - **3=Orifice/Grate** (Passes < 9.68 cfs potential flow)
- **5=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=4.78 cfs @ 12.27 hrs HW=275.68' TW=0.00' (Dynamic Tailwater)
- **2=Broad-Crested Rectangular Weir** (Weir Controls 4.78 cfs @ 1.43 fps)

Summary for Pond 30P: Infiltration Pond #1

Inflow Area = 0.41 ac, 37.64% Impervious, Inflow Depth > 3.38" for 50-yr event
Inflow = 1.31 cfs @ 12.09 hrs, Volume= 0.114 af
Outflow = 0.07 cfs @ 14.98 hrs, Volume= 0.080 af, Atten= 95%, Lag= 173.1 min
Discarded = 0.07 cfs @ 14.98 hrs, Volume= 0.080 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 281.24' @ 14.98 hrs Surf.Area= 2,908 sf Storage= 2,550 cf

Plug-Flow detention time= 273.5 min calculated for 0.080 af (70% of inflow)
Center-of-Mass det. time= 170.2 min (944.4 - 774.2)

Volume	Invert	Avail.Storage	Storage Description
#1	280.00'	5,166 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
280.00	1,214	0	0
282.00	3,952	5,166	5,166

Device	Routing	Invert	Outlet Devices
#1	Discarded	280.00'	**1.000 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.07 cfs @ 14.98 hrs HW=281.24' (Free Discharge)
- **1=Exfiltration** (Exfiltration Controls 0.07 cfs)

Summary for Pond 31P: Infiltration Pond #2

Inflow Area = 1.13 ac, 39.15% Impervious, Inflow Depth > 3.42" for 50-yr event
Inflow = 3.67 cfs @ 12.09 hrs, Volume= 0.321 af
Outflow = 0.29 cfs @ 13.51 hrs, Volume= 0.242 af, Atten= 92%, Lag= 85.4 min
Discarded = 0.11 cfs @ 13.51 hrs, Volume= 0.144 af
Primary = 0.19 cfs @ 13.51 hrs, Volume= 0.098 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 275.74' @ 13.51 hrs Surf.Area= 4,662 sf Storage= 6,686 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 137.9 min (910.3 - 772.3)

Volume	Invert	Avail.Storage	Storage Description
#1	274.00'	7,938 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
274.00	3,030	0	0
276.00	4,908	7,938	7,938

Device	Routing	Invert	Outlet Devices
#1	Device 3	275.00'	**3.0" Vert. Orifice/Grate** C= 0.600
#2	Discarded	274.00'	**1.000 in/hr Exfiltration over Surface area**
#3	Primary	274.16'	**15.0" Round Culvert** L= 32.2' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 274.16' / 274.00' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#4	Primary	276.40'	**24.0" x 24.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.11 cfs @ 13.51 hrs HW=275.74' (Free Discharge)
└**2=Exfiltration** (Exfiltration Controls 0.11 cfs)

Primary OutFlow Max=0.19 cfs @ 13.51 hrs HW=275.74' TW=0.00' (Dynamic Tailwater)
├**3=Culvert** (Passes 0.19 cfs of 4.93 cfs potential flow)
│└**1=Orifice/Grate** (Orifice Controls 0.19 cfs @ 3.77 fps)
└**4=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 100: AD#100

Inflow Area = 0.02 ac,100.00% Impervious, Inflow Depth > 6.53" for 50-yr event
Inflow = 0.14 cfs @ 12.09 hrs, Volume= 0.011 af
Outflow = 0.14 cfs @ 12.09 hrs, Volume= 0.011 af, Atten= 0%, Lag= 0.0 min
Primary = 0.14 cfs @ 12.09 hrs, Volume= 0.011 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 296.01' @ 12.09 hrs
Flood Elev= 297.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	295.81'	**8.0" Round Culvert** L= 58.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 295.81' / 294.35' S= 0.0251 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.13 cfs @ 12.09 hrs HW=296.01' TW=294.61' (Dynamic Tailwater)
└**1=Culvert** (Inlet Controls 0.13 cfs @ 1.52 fps)

Summary for Pond 101: AD#101

Inflow Area = 0.06 ac,100.00% Impervious, Inflow Depth > 6.53" for 50-yr event
Inflow = 0.41 cfs @ 12.09 hrs, Volume= 0.034 af
Outflow = 0.41 cfs @ 12.09 hrs, Volume= 0.034 af, Atten= 0%, Lag= 0.0 min
Primary = 0.41 cfs @ 12.09 hrs, Volume= 0.034 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.21' @ 12.21 hrs
Flood Elev= 297.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.25'	**8.0" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.25' / 292.40' S= 0.0500 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.35 cfs @ 12.09 hrs HW=294.61' TW=294.20' (Dynamic Tailwater)
1=Culvert (Outlet Controls 0.35 cfs @ 2.62 fps)

Summary for Pond 102: AD#102

Inflow Area = 0.08 ac,100.00% Impervious, Inflow Depth > 6.53" for 50-yr event
Inflow = 0.55 cfs @ 12.09 hrs, Volume= 0.046 af
Outflow = 0.55 cfs @ 12.09 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min
Primary = 0.55 cfs @ 12.09 hrs, Volume= 0.046 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.23' @ 12.21 hrs
Flood Elev= 297.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	292.95'	**8.0" Round Culvert** L= 27.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.95' / 292.40' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=293.61' TW=294.20' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond 103: AD#103

Inflow Area = 0.04 ac,100.00% Impervious, Inflow Depth > 6.53" for 50-yr event
Inflow = 0.27 cfs @ 12.09 hrs, Volume= 0.023 af
Outflow = 0.27 cfs @ 12.09 hrs, Volume= 0.023 af, Atten= 0%, Lag= 0.0 min
Primary = 0.27 cfs @ 12.09 hrs, Volume= 0.023 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.23' @ 12.26 hrs
Flood Elev= 297.40'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.23'	**8.0" Round Culvert** L= 59.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.23' / 293.05' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.27 cfs @ 12.09 hrs HW=294.52' TW=293.61' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.27 cfs @ 1.83 fps)

Summary for Pond 104: AD#104

Inflow Area = 0.23 ac,100.00% Impervious, Inflow Depth > 6.53" for 50-yr event
Inflow = 1.51 cfs @ 12.09 hrs, Volume= 0.126 af
Outflow = 1.51 cfs @ 12.09 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.0 min
Primary = 1.51 cfs @ 12.09 hrs, Volume= 0.126 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 296.40' @ 12.09 hrs
Flood Elev= 299.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	295.27'	**8.0" Round Culvert** L= 16.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 295.27' / 294.66' S= 0.0367 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=1.47 cfs @ 12.09 hrs HW=296.36' TW=295.55' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.47 cfs @ 4.20 fps)

Summary for Pond 105: AD#105

Inflow Area = 0.19 ac,100.00% Impervious, Inflow Depth > 6.53" for 50-yr event
Inflow = 1.23 cfs @ 12.09 hrs, Volume= 0.103 af
Outflow = 1.23 cfs @ 12.09 hrs, Volume= 0.103 af, Atten= 0%, Lag= 0.0 min
Primary = 1.23 cfs @ 12.09 hrs, Volume= 0.103 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 298.40' @ 12.09 hrs
Flood Elev= 301.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	297.53'	**8.0" Round Culvert** L= 53.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 297.53' / 295.38' S= 0.0400 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=1.20 cfs @ 12.09 hrs HW=298.37' TW=296.36' (Dynamic Tailwater)
1=Culvert (Inlet Controls 1.20 cfs @ 3.44 fps)

Summary for Pond 106: AD#106

Inflow Area = 0.15 ac,100.00% Impervious, Inflow Depth > 6.53" for 50-yr event
Inflow = 0.96 cfs @ 12.09 hrs, Volume= 0.080 af
Outflow = 0.96 cfs @ 12.09 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min
Primary = 0.96 cfs @ 12.09 hrs, Volume= 0.080 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 300.52' @ 12.09 hrs
Flood Elev= 303.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	299.87'	**8.0" Round Culvert** L= 55.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 299.87' / 297.63' S= 0.0401 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.93 cfs @ 12.09 hrs HW=300.51' TW=298.37' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.93 cfs @ 2.72 fps)

Summary for Pond 107: AD#107

Inflow Area = 0.11 ac,100.00% Impervious, Inflow Depth > 6.53" for 50-yr event
Inflow = 0.68 cfs @ 12.09 hrs, Volume= 0.057 af
Outflow = 0.68 cfs @ 12.09 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min
Primary = 0.68 cfs @ 12.09 hrs, Volume= 0.057 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 303.40' @ 12.09 hrs
Flood Elev= 306.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	302.85'	**8.0" Round Culvert** L= 64.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 302.85' / 299.97' S= 0.0450 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.67 cfs @ 12.09 hrs HW=303.39' TW=300.51' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.67 cfs @ 2.20 fps)

Summary for Pond 108: AD#108

Inflow Area = 0.06 ac,100.00% Impervious, Inflow Depth > 6.53" for 50-yr event
Inflow = 0.41 cfs @ 12.09 hrs, Volume= 0.034 af
Outflow = 0.41 cfs @ 12.09 hrs, Volume= 0.034 af, Atten= 0%, Lag= 0.0 min
Primary = 0.41 cfs @ 12.09 hrs, Volume= 0.034 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 306.22' @ 12.09 hrs
Flood Elev= 309.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	305.85'	**8.0" Round Culvert** L= 64.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 305.85' / 302.96' S= 0.0448 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.40 cfs @ 12.09 hrs HW=306.21' TW=303.39' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.40 cfs @ 2.05 fps)

Summary for Pond 109: AD#109

Inflow Area = 0.02 ac,100.00% Impervious, Inflow Depth > 6.53" for 50-yr event
Inflow = 0.14 cfs @ 12.09 hrs, Volume= 0.011 af
Outflow = 0.14 cfs @ 12.09 hrs, Volume= 0.011 af, Atten= 0%, Lag= 0.0 min
Primary = 0.14 cfs @ 12.09 hrs, Volume= 0.011 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 308.89' @ 12.09 hrs
Flood Elev= 311.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	308.69'	**8.0" Round Culvert** L= 49.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 308.69' / 305.95' S= 0.0549 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.35 sf

Primary OutFlow Max=0.13 cfs @ 12.09 hrs HW=308.89' TW=306.21' (Dynamic Tailwater)
1=Culvert (Inlet Controls 0.13 cfs @ 1.52 fps)

Summary for Pond CB11: CB#11

Inflow Area = 1.47 ac, 47.09% Impervious, Inflow Depth > 4.95" for 50-yr event
Inflow = 7.51 cfs @ 12.09 hrs, Volume= 0.605 af
Outflow = 7.51 cfs @ 12.09 hrs, Volume= 0.605 af, Atten= 0%, Lag= 0.0 min
Primary = 7.51 cfs @ 12.09 hrs, Volume= 0.605 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 313.29' @ 12.35 hrs
Flood Elev= 314.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.04'	**18.0" Round Culvert** L= 30.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.04' / 309.89' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.81 cfs @ 12.09 hrs HW=313.11' TW=312.64' (Dynamic Tailwater)
1=Culvert (Inlet Controls 5.81 cfs @ 3.29 fps)

Summary for Pond CB110: CB#110

Inflow Area = 0.34 ac, 52.43% Impervious, Inflow Depth > 5.54" for 50-yr event
Inflow = 1.96 cfs @ 12.09 hrs, Volume= 0.156 af
Outflow = 1.96 cfs @ 12.09 hrs, Volume= 0.156 af, Atten= 0%, Lag= 0.0 min
Primary = 1.96 cfs @ 12.09 hrs, Volume= 0.156 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 313.30' @ 12.39 hrs
Flood Elev= 314.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.25'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.25' / 310.14' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=312.78' TW=313.10' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB12: CB#12

Inflow Area = 0.73 ac, 49.36% Impervious, Inflow Depth > 4.97" for 50-yr event
Inflow = 3.76 cfs @ 12.09 hrs, Volume= 0.304 af
Outflow = 3.76 cfs @ 12.09 hrs, Volume= 0.304 af, Atten= 0%, Lag= 0.0 min
Primary = 3.76 cfs @ 12.09 hrs, Volume= 0.304 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 314.03' @ 12.11 hrs
Flood Elev= 317.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	313.00'	**15.0" Round Culvert** L= 106.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 313.00' / 310.21' S= 0.0263 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.16 cfs @ 12.09 hrs HW=314.02' TW=313.10' (Dynamic Tailwater)
1=Culvert (Outlet Controls 3.16 cfs @ 4.03 fps)

Summary for Pond CB120: CB#120

Inflow Area = 0.50 ac, 47.90% Impervious, Inflow Depth > 5.26" for 50-yr event
Inflow = 2.74 cfs @ 12.09 hrs, Volume= 0.218 af
Outflow = 2.74 cfs @ 12.09 hrs, Volume= 0.218 af, Atten= 0%, Lag= 0.0 min
Primary = 2.74 cfs @ 12.09 hrs, Volume= 0.218 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 314.34' @ 12.11 hrs
Flood Elev= 317.25'

Device	Routing	Invert	Outlet Devices
#1	Primary	313.32'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 313.32' / 313.10' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.34 cfs @ 12.09 hrs HW=314.31' TW=314.02' (Dynamic Tailwater)
1=Culvert (Outlet Controls 2.34 cfs @ 3.09 fps)

Summary for Pond CB14: CB#14

Inflow Area = 3.64 ac, 46.14% Impervious, Inflow Depth > 4.66" for 50-yr event
Inflow = 7.41 cfs @ 12.30 hrs, Volume= 1.414 af
Outflow = 7.41 cfs @ 12.30 hrs, Volume= 1.414 af, Atten= 0%, Lag= 0.0 min
Primary = 7.41 cfs @ 12.30 hrs, Volume= 1.414 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 310.88' @ 12.33 hrs
Flood Elev= 312.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	307.79'	**15.0" Round Culvert** L= 37.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 307.79' / 307.22' S= 0.0150 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=7.17 cfs @ 12.30 hrs HW=310.83' TW=309.36' (Dynamic Tailwater)
1=Culvert (Inlet Controls 7.17 cfs @ 5.84 fps)

Summary for Pond CB15: CB#15

Inflow Area = 3.71 ac, 46.04% Impervious, Inflow Depth > 4.65" for 50-yr event
Inflow = 7.53 cfs @ 12.30 hrs, Volume= 1.437 af
Outflow = 7.53 cfs @ 12.30 hrs, Volume= 1.437 af, Atten= 0%, Lag= 0.0 min
Primary = 7.53 cfs @ 12.30 hrs, Volume= 1.437 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 309.37' @ 12.30 hrs
Flood Elev= 312.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	307.12'	**15.0" Round Culvert** L= 120.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 307.12' / 300.65' S= 0.0539 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=7.52 cfs @ 12.30 hrs HW=309.37' TW=0.00' (Dynamic Tailwater)
1=Culvert (Inlet Controls 7.52 cfs @ 6.13 fps)

Summary for Pond CB170: CB#170

Inflow Area = 0.74 ac, 68.11% Impervious, Inflow Depth > 5.08" for 50-yr event
Inflow = 3.74 cfs @ 12.09 hrs, Volume= 0.315 af
Outflow = 3.74 cfs @ 12.09 hrs, Volume= 0.315 af, Atten= 0%, Lag= 0.0 min
Primary = 3.74 cfs @ 12.09 hrs, Volume= 0.315 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 278.93' @ 12.09 hrs
Flood Elev= 281.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	277.90'	**15.0" Round Culvert** L= 36.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 277.90' / 277.17' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.65 cfs @ 12.09 hrs HW=278.91' TW=276.80' (Dynamic Tailwater)
1=Culvert (Inlet Controls 3.65 cfs @ 3.43 fps)

Summary for Pond CB171: CB#171

Inflow Area = 0.61 ac, 66.16% Impervious, Inflow Depth > 5.06" for 50-yr event
Inflow = 3.06 cfs @ 12.09 hrs, Volume= 0.257 af
Outflow = 3.06 cfs @ 12.09 hrs, Volume= 0.257 af, Atten= 0%, Lag= 0.0 min
Primary = 3.06 cfs @ 12.09 hrs, Volume= 0.257 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 279.28' @ 12.11 hrs
Flood Elev= 281.97'

Device	Routing	Invert	Outlet Devices
#1	Primary	278.22'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 278.22' / 278.00' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.70 cfs @ 12.09 hrs HW=279.25' TW=278.91' (Dynamic Tailwater)
1=Culvert (Outlet Controls 2.70 cfs @ 3.37 fps)

Summary for Pond CB19: CB #19

Inflow Area = 2.45 ac, 33.78% Impervious, Inflow Depth > 4.63" for 50-yr event
Inflow = 10.98 cfs @ 12.12 hrs, Volume= 0.946 af
Outflow = 10.98 cfs @ 12.12 hrs, Volume= 0.946 af, Atten= 0%, Lag= 0.0 min
Primary = 10.98 cfs @ 12.12 hrs, Volume= 0.946 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 279.94' @ 12.15 hrs
Flood Elev= 281.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.67'	**18.0" Round Culvert** L= 33.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 276.67' / 276.16' S= 0.0151 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=9.41 cfs @ 12.12 hrs HW=279.64' TW=278.42' (Dynamic Tailwater)
1=Culvert (Inlet Controls 9.41 cfs @ 5.33 fps)

Summary for Pond CB20: CB #20

Inflow Area = 2.14 ac, 28.84% Impervious, Inflow Depth > 4.55" for 50-yr event
Inflow = 9.39 cfs @ 12.13 hrs, Volume= 0.809 af
Outflow = 9.39 cfs @ 12.13 hrs, Volume= 0.809 af, Atten= 0%, Lag= 0.0 min
Primary = 9.39 cfs @ 12.13 hrs, Volume= 0.809 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 280.81' @ 12.18 hrs
Flood Elev= 281.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	277.21'	**18.0" Round Culvert** L= 22.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 277.21' / 276.77' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.58 cfs @ 12.13 hrs HW=280.14' TW=279.71' (Dynamic Tailwater)
1=Culvert (Inlet Controls 5.58 cfs @ 3.16 fps)

Summary for Pond CB201: CB#201

Inflow Area = 0.69 ac, 40.43% Impervious, Inflow Depth > 4.99" for 50-yr event
Inflow = 3.63 cfs @ 12.09 hrs, Volume= 0.286 af
Outflow = 3.63 cfs @ 12.09 hrs, Volume= 0.286 af, Atten= 0%, Lag= 0.0 min
Primary = 3.63 cfs @ 12.09 hrs, Volume= 0.286 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 293.57' @ 12.24 hrs
Flood Elev= 300.43'

Device	Routing	Invert	Outlet Devices
#1	Primary	291.88'	**15.0" Round Culvert** L= 82.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 291.88' / 291.45' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.28 cfs @ 12.09 hrs HW=293.33' TW=293.14' (Dynamic Tailwater)
1=Culvert (Outlet Controls 2.28 cfs @ 2.01 fps)

Summary for Pond CB3: CB#3

Inflow Area = 1.67 ac, 66.11% Impervious, Inflow Depth > 4.55" for 50-yr event
Inflow = 7.31 cfs @ 12.09 hrs, Volume= 0.635 af
Outflow = 7.31 cfs @ 12.09 hrs, Volume= 0.635 af, Atten= 0%, Lag= 0.0 min
Primary = 7.31 cfs @ 12.09 hrs, Volume= 0.635 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.14' @ 12.11 hrs
Flood Elev= 296.31'

Device	Routing	Invert	Outlet Devices
#1	Primary	292.09'	**15.0" Round Culvert** L= 80.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.09' / 291.29' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=6.28 cfs @ 12.09 hrs HW=294.94' TW=293.57' (Dynamic Tailwater)
1=Culvert (Outlet Controls 6.28 cfs @ 5.11 fps)

Summary for Pond CB30: CB#30

Inflow Area = 0.32 ac, 91.05% Impervious, Inflow Depth > 6.00" for 50-yr event
Inflow = 1.90 cfs @ 12.09 hrs, Volume= 0.161 af
Outflow = 1.90 cfs @ 12.09 hrs, Volume= 0.161 af, Atten= 0%, Lag= 0.0 min
Primary = 1.90 cfs @ 12.09 hrs, Volume= 0.161 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.20' @ 12.16 hrs
Flood Elev= 296.31'

Device	Routing	Invert	Outlet Devices
#1	Primary	292.30'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 292.30' / 292.19' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=294.21' TW=294.91' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB4: CB#4

Inflow Area = 0.82 ac, 72.75% Impervious, Inflow Depth > 4.94" for 50-yr event
Inflow = 3.94 cfs @ 12.09 hrs, Volume= 0.339 af
Outflow = 3.94 cfs @ 12.09 hrs, Volume= 0.339 af, Atten= 0%, Lag= 0.0 min
Primary = 3.94 cfs @ 12.09 hrs, Volume= 0.339 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.54' @ 12.15 hrs
Flood Elev= 298.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.24'	**15.0" Round Culvert** L= 80.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.24' / 292.58' S= 0.0205 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.39 cfs @ 12.09 hrs HW=295.32' TW=294.93' (Dynamic Tailwater)
1=Culvert (Outlet Controls 2.39 cfs @ 2.85 fps)

Summary for Pond CB5: CB#5

Inflow Area = 0.53 ac, 77.00% Impervious, Inflow Depth > 5.18" for 50-yr event
Inflow = 2.67 cfs @ 12.09 hrs, Volume= 0.228 af
Outflow = 2.67 cfs @ 12.09 hrs, Volume= 0.228 af, Atten= 0%, Lag= 0.0 min
Primary = 2.67 cfs @ 12.09 hrs, Volume= 0.228 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 295.65' @ 12.19 hrs
Flood Elev= 298.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	294.56'	**15.0" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 294.56' / 294.34' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.14 cfs @ 12.09 hrs HW=295.55' TW=295.32' (Dynamic Tailwater)
1=Culvert (Outlet Controls 2.14 cfs @ 2.80 fps)

Summary for Pond CB80: CB#80

Inflow Area = 0.64 ac, 56.11% Impervious, Inflow Depth > 5.20" for 50-yr event
Inflow = 3.37 cfs @ 12.09 hrs, Volume= 0.276 af
Outflow = 3.37 cfs @ 12.09 hrs, Volume= 0.276 af, Atten= 0%, Lag= 0.0 min
Primary = 3.37 cfs @ 12.09 hrs, Volume= 0.276 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 313.55' @ 12.16 hrs
Flood Elev= 314.01'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.06'	**15.0" Round Culvert** L= 15.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.06' / 309.98' S= 0.0053 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=313.18' TW=313.27' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB800: CB#800

Inflow Area = 0.27 ac, 72.99% Impervious, Inflow Depth > 5.22" for 50-yr event
Inflow = 1.38 cfs @ 12.09 hrs, Volume= 0.117 af
Outflow = 1.38 cfs @ 12.09 hrs, Volume= 0.117 af, Atten= 0%, Lag= 0.0 min
Primary = 1.38 cfs @ 12.09 hrs, Volume= 0.117 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 313.57' @ 12.21 hrs
Flood Elev= 314.01'

Device	Routing	Invert	Outlet Devices
#1	Primary	310.27'	**15.0" Round Culvert** L= 22.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 310.27' / 310.16' S= 0.0048 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=312.60' TW=313.13' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond CB9: CB#9

Inflow Area = 0.90 ac, 54.67% Impervious, Inflow Depth > 5.03" for 50-yr event
Inflow = 4.63 cfs @ 12.09 hrs, Volume= 0.379 af
Outflow = 4.63 cfs @ 12.09 hrs, Volume= 0.379 af, Atten= 0%, Lag= 0.0 min
Primary = 4.63 cfs @ 12.09 hrs, Volume= 0.379 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 315.27' @ 12.09 hrs
Flood Elev= 317.43'

Device	Routing	Invert	Outlet Devices
#1	Primary	314.04'	**15.0" Round Culvert** L= 203.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 314.04' / 310.50' S= 0.0174 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=4.53 cfs @ 12.09 hrs HW=315.24' TW=313.25' (Dynamic Tailwater)
1=Culvert (Inlet Controls 4.53 cfs @ 3.74 fps)

Summary for Pond CB90: CB#90

Inflow Area = 0.31 ac, 72.11% Impervious, Inflow Depth > 4.90" for 50-yr event
Inflow = 1.49 cfs @ 12.09 hrs, Volume= 0.128 af
Outflow = 1.49 cfs @ 12.09 hrs, Volume= 0.128 af, Atten= 0%, Lag= 0.0 min
Primary = 1.49 cfs @ 12.09 hrs, Volume= 0.128 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 315.48' @ 12.12 hrs
Flood Elev= 317.72'

Device	Routing	Invert	Outlet Devices
#1	Primary	314.74'	**15.0" Round Culvert** L= 29.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 314.74' / 314.14' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.15 cfs @ 12.09 hrs HW=315.44' TW=315.24' (Dynamic Tailwater)
1=Culvert (Outlet Controls 1.15 cfs @ 2.34 fps)

Summary for Pond DMH111: DMH#111

Inflow Area = 1.47 ac, 47.09% Impervious, Inflow Depth > 4.95" for 50-yr event
Inflow = 7.51 cfs @ 12.09 hrs, Volume= 0.605 af
Outflow = 7.51 cfs @ 12.09 hrs, Volume= 0.605 af, Atten= 0%, Lag= 0.0 min
Primary = 7.51 cfs @ 12.09 hrs, Volume= 0.605 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 313.19' @ 12.35 hrs
Flood Elev= 314.10'

Device	Routing	Invert	Outlet Devices
#1	Primary	309.79'	**24.0" Round Culvert** L= 40.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 309.79' / 309.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=312.64' TW=312.67' (Dynamic Tailwater)
1=Culvert (Controls 0.00 cfs)

Summary for Pond DMH17: DMH#17

Inflow Area = 3.19 ac, 41.78% Impervious, Inflow Depth > 4.74" for 50-yr event
Inflow = 14.58 cfs @ 12.11 hrs, Volume= 1.261 af
Outflow = 14.58 cfs @ 12.11 hrs, Volume= 1.261 af, Atten= 0%, Lag= 0.0 min
Primary = 14.58 cfs @ 12.11 hrs, Volume= 1.261 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 276.89' @ 12.13 hrs
Flood Elev= 279.48'

Device	Routing	Invert	Outlet Devices
#1	Primary	274.89'	**24.0" Round Culvert** L= 279.8' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 274.89' / 272.09' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=13.13 cfs @ 12.11 hrs HW=276.87' TW=275.06' (Dynamic Tailwater)
1=Culvert (Outlet Controls 13.13 cfs @ 5.26 fps)

Summary for Pond DMH18: DMH#18

Inflow Area = 2.45 ac, 33.78% Impervious, Inflow Depth > 4.63" for 50-yr event
Inflow = 10.98 cfs @ 12.12 hrs, Volume= 0.946 af
Outflow = 10.98 cfs @ 12.12 hrs, Volume= 0.946 af, Atten= 0%, Lag= 0.0 min
Primary = 10.98 cfs @ 12.12 hrs, Volume= 0.946 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 278.49' @ 12.12 hrs
Flood Elev= 281.88'

Device	Routing	Invert	Outlet Devices
#1	Primary	276.06'	**18.0" Round Culvert** L= 71.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 276.06' / 274.99' S= 0.0149 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=10.52 cfs @ 12.12 hrs HW=278.42' TW=276.87' (Dynamic Tailwater)
1=Culvert (Outlet Controls 10.52 cfs @ 5.96 fps)

Summary for Pond DMH2: DMH#2

Inflow Area = 1.67 ac, 66.11% Impervious, Inflow Depth > 4.55" for 50-yr event
Inflow = 7.31 cfs @ 12.09 hrs, Volume= 0.635 af
Outflow = 7.31 cfs @ 12.09 hrs, Volume= 0.635 af, Atten= 0%, Lag= 0.0 min
Primary = 7.31 cfs @ 12.09 hrs, Volume= 0.635 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 293.67' @ 12.14 hrs
Flood Elev= 297.80'

Device	Routing	Invert	Outlet Devices
#1	Primary	291.19'	**18.0" Round Culvert** L= 50.2' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 291.19' / 291.04' S= 0.0030 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.58 cfs @ 12.09 hrs HW=293.57' TW=293.14' (Dynamic Tailwater)
1=Culvert (Inlet Controls 5.58 cfs @ 3.16 fps)

Summary for Pond DMH8: DMH#8

Inflow Area = 1.54 ac, 55.26% Impervious, Inflow Depth > 5.10" for 50-yr event
Inflow = 8.01 cfs @ 12.09 hrs, Volume= 0.655 af
Outflow = 8.01 cfs @ 12.09 hrs, Volume= 0.655 af, Atten= 0%, Lag= 0.0 min
Primary = 8.01 cfs @ 12.09 hrs, Volume= 0.655 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs
Peak Elev= 313.37' @ 12.12 hrs
Flood Elev= 314.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	309.88'	**18.0" Round Culvert** L= 13.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 309.88' / 309.81' S= 0.0052 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=6.48 cfs @ 12.09 hrs HW=313.26' TW=312.68' (Dynamic Tailwater)
↑—**1=Culvert** (Inlet Controls 6.48 cfs @ 3.66 fps)

Summary for Link A: Western Shadowbrook Drive Treatment Area

Inflow Area = 5.76 ac, 33.42% Impervious, Inflow Depth > 3.51" for 50-yr event
Inflow = 14.30 cfs @ 12.11 hrs, Volume= 1.687 af
Primary = 14.30 cfs @ 12.11 hrs, Volume= 1.687 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link B: pond at beginning of neighborhood

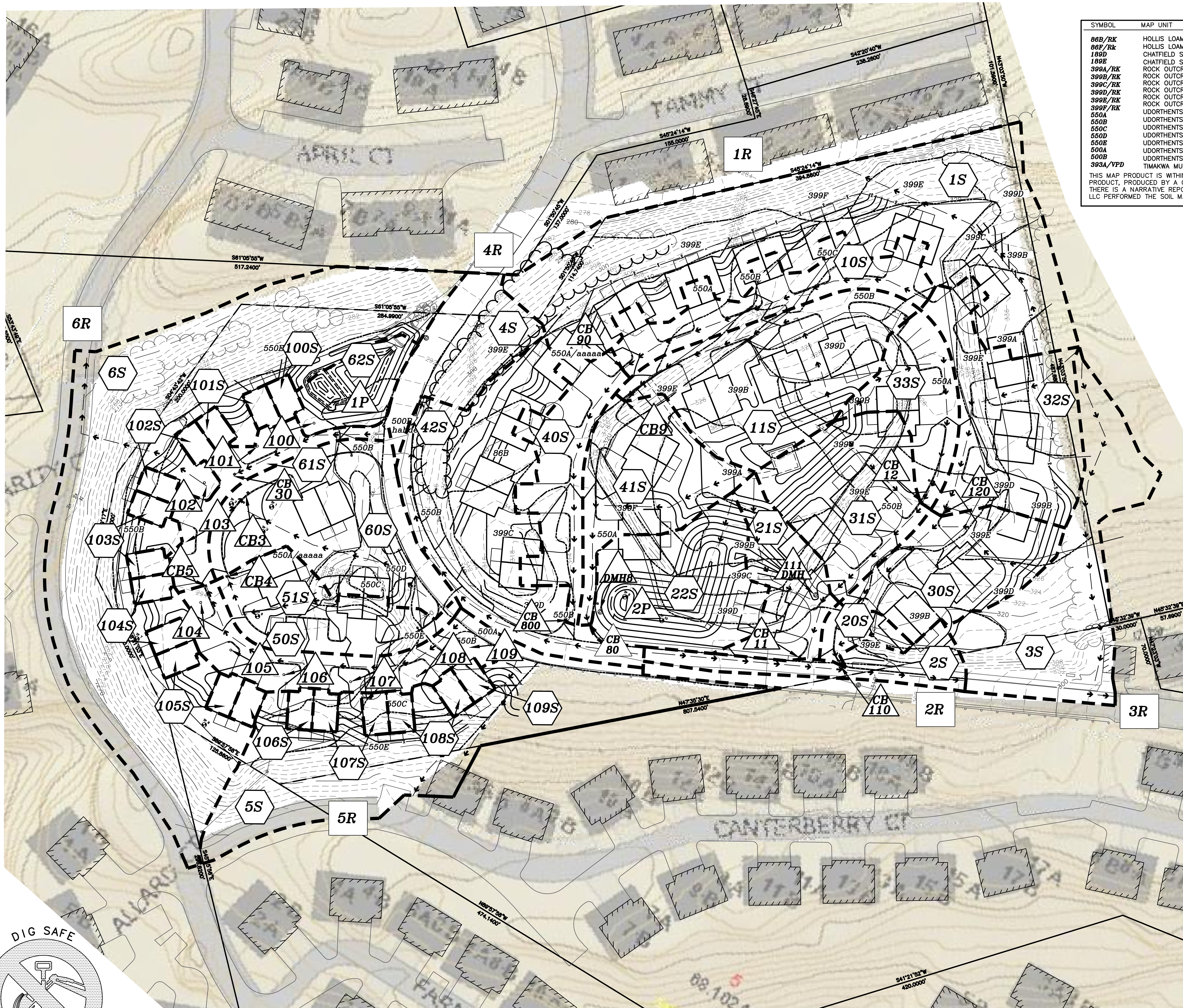
Inflow Area = 5.28 ac, 37.67% Impervious, Inflow Depth > 4.06" for 50-yr event
Inflow = 10.33 cfs @ 12.13 hrs, Volume= 1.788 af
Primary = 10.33 cfs @ 12.13 hrs, Volume= 1.788 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link C: Wetlands

Inflow Area = 9.23 ac, 21.04% Impervious, Inflow Depth > 3.72" for 50-yr event
Inflow = 22.54 cfs @ 12.26 hrs, Volume= 2.862 af
Primary = 22.54 cfs @ 12.26 hrs, Volume= 2.862 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs



SITE SPECIFIC SOIL MAP UNIT KEY

SYMBOL	MAP UNIT	SLOPE CLASS	DRAINAGE CLASS	HSC/GROUP
86B/RK	HOLLIS LOAMY SAND	3-8%	EXCESSIVELY WELL DRAINED	C/4
86F/Rk	HOLLIS LOAMY SAND	50%+	EXCESSIVELY WELL DRAINED	C/4
189D	CHATFIELD SANDY LOAM	15-25%	MODERATELY WELL DRAINED	B/3
189E	CHATFIELD SANDY LOAM	25-50%	MODERATELY WELL DRAINED	B/3
399A/RK	ROCK OUTCROP	0-3%		
399B/RK	ROCK OUTCROP	3-8%		
399C/RK	ROCK OUTCROP	8-15%		
399D/RK	ROCK OUTCROP	15-25%		
399E/RK	ROCK OUTCROP	25-50%		
399F/RK	ROCK OUTCROP	50%+		
550A	UDORTHENTS, SANDY COBBLY FILL OVER DEEPER LEDGE/AAAAA	0-3%	SLOPES EXCESSIVELY WELL DRAINED	A/1
550B	UDORTHENTS, SANDY COBBLY FILL OVER DEEPER LEDGE/AAAAA	3-8%	SLOPES EXCESSIVELY WELL DRAINED	A/1
550C	UDORTHENTS, SANDY COBBLY FILL OVER DEEPER LEDGE/AAAAA	8-15%	SLOPES EXCESSIVELY WELL DRAINED	A/1
550D	UDORTHENTS, SANDY COBBLY FILL OVER DEEPER LEDGE/AAAAA	15-25%	SLOPES EXCESSIVELY WELL DRAINED	A/1
550E	UDORTHENTS, SANDY COBBLY FILL OVER DEEPER LEDGE/AAAAA	25-50%	SLOPES EXCESSIVELY WELL DRAINED	A/1
500A	UDORTHENTS, PAVEMENT OVER FILL/HAHDE	0-3%	IMPERVIOUS	N/A
500B	UDORTHENTS, PAVEMENT OVER FILL/HAHDE	3-8%	IMPERVIOUS	N/A
393A/VPD	TIMAKWA MUCKY PEAT	0-3%	VERY POORLY DRAINED	D/6

THIS MAP PRODUCT IS WITHIN THE TECHNICAL STANDARDS OF THE NATIONAL COOPERATIVE SOILS SURVEY. IT IS A SPECIAL PURPOSE PRODUCT, PRODUCED BY A CERTIFIED SOIL SCIENTIST, AND IS NOT A PRODUCT OF THE USDA NATURAL RESOURCE CONSERVATION SERVICE. THERE IS A NARRATIVE REPORT THAT ACCOMPANIES THIS MAP AND MAP KEY. CYNTHIA BALCIUS, CSS OF STONEY RIDGE ENVIRONMENTAL LLC PERFORMED THE SOIL MAPPING ON SEPTEMBER 10, 2020.

DRAINAGE LEGEND:

THE LEGEND BELOW REFLECTS THE HYDROCAD MODEL USED FOR DRAINAGE CALCULATIONS.

SCS SOIL LINES
SITE SPECIFIC SOIL LINES
WnC — DENOTES SOIL TYPE
P — DENOTES POND
S — DENOTES SUBCATCHMENT AREA
R — DENOTES REACH
L — DENOTES POINT OF INTEREST
LIMIT OF SUBCATCHMENT AREA
TIME OF CONCENTRATION
REACH

GRAPHIC SCALE

50 0 50 50 100 400

(IN FEET)
1 inch = 50 ft.

POST-DEVELOPMENT DRAINAGE PLAN

SHEPHERDS HILL

MAP 177 LOT 5
SHADOWBROOK DRIVE
HUDSON, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:
SHEPHERDS HILL HOME OWNERS ASSOCIATION
C/O GREAT NORTH PROPERTY MANAGEMENT
3 HOLLAND WAY, SUITE 201
EXETER, NH 03833

APPLICANT:
SHEPHERDS HILL, LLC
253 MAIN STREET
NASHUA, NH 03060

KNA KEACH–NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

REVISIONS

No.	DATE	DESCRIPTION	BY
1	7/7/22	REVISED PER COMMENTS	ACL
2	10/6/22	REVISED PER TOWN COMMENTS	ACL

DATE: MAY 2, 2022 — **SCALE:** 1" = 50'
PROJECT NO: 17-0824-1 — **SHEET** 5 **OF** 6

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