

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:		1		Total Area =		68,120 S.F.	
						1.56 Acres	
Surface							
						C	N
Structures	5	@	3000	=	15,000 S.F. =	0.34 Ac.	0.92
Pavement				=	8,401 S.F. =	0.19 Ac.	0.92
Drives	9	@	700	=	6,300 S.F. =	0.14 Ac.	0.92
Patios	1	@	100	=	100 S.F. =	0.00 Ac.	0.92
Sidewalks				=	0 S.F. =	0.00 Ac.	0.92
Lawn (0-2%)			0 S.F.	=		0.00 Ac.	0.15
Lawn (2-5%)			38,319 S.F.	=		0.88 Ac.	0.25
Lawn (5-10%)			0 S.F.	=		0.00 Ac.	0.40
Lawn (>10%)			0 S.F.	=		0.00 Ac.	0.55
Water			0 S.F.	=		0.00 Ac.	1.00
Misc.			0 S.F.	=		0.00 Ac.	0.92

Weighted c =	0.543
Weighted N =	0.234
Sheet Flow	
L =	300 Ft.
H =	8.7 Ft.
S =	0.0290 Ft./Ft.
t1 =	13.76 Minutes
Shallow Concentrated Flow	
L =	489 Ft.
H =	7.5 Ft.
S =	0.0153 Ft./Ft.
v =	2.50 Ft./sec.
t2 =	3.26 Minutes
tc =	17.02 Minutes
I(10) =	In./Hr.
I(25) =	4.846 In./Hr.
I(50) =	In./Hr.
I(100) =	5.981 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	4.12 CFS
Q(50) =	0.00 CFS
Q(100) =	5.08 CFS

(Min. 5 minutes)

(From HEPICCC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:		2		Total Area =		31,951 S.F.	
						0.73 Acres	
Surface							
						C	N
Structures	2	@	3000	=	6,000 S.F. =	0.14 Ac.	0.92
Pavement				=	7,755 S.F. =	0.18 Ac.	0.92
Drives	4	@	700	=	2,800 S.F. =	0.06 Ac.	0.92
Patios	0	@	100	=	0 S.F. =	0.00 Ac.	0.92
Sidewalks				=	0 S.F. =	0.00 Ac.	0.92
Lawn (0-2%)			0 S.F.	=		0.00 Ac.	0.15
Lawn (2-5%)			15,396 S.F.	=		0.35 Ac.	0.25
Lawn (5-10%)			0 S.F.	=		0.00 Ac.	0.40
Lawn (>10%)			0 S.F.	=		0.00 Ac.	0.55
Water			0 S.F.	=		0.00 Ac.	1.00
Misc.			0 S.F.	=		0.00 Ac.	0.92

Weighted c =	0.597
Weighted N =	0.203
Sheet Flow	
L =	300 Ft.
H =	7.4 Ft.
S =	0.0247 Ft./Ft.
t1 =	13.38 Minutes
Shallow Concentrated Flow	
L =	219 Ft.
H =	2.4 Ft.
S =	0.0110 Ft./Ft.
v =	3.20 Ft./sec.
t2 =	1.14 Minutes
tc =	14.52 Minutes
I(10) =	In./Hr.
I(25) =	5.119 In./Hr.
I(50) =	In./Hr.
I(100) =	6.283 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.24 CFS
Q(50) =	0.00 CFS
Q(100) =	2.75 CFS

(Min. 5 minutes)

(From HEPICCC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	3		Total Area = 51,427 S.F. 1.18 Acres			
Surface						
Structures	4	@	3000	=	12,000 S.F. =	0.28 Ac. 0.92 0.02
Pavement				=	0 S.F. =	0.00 Ac. 0.92 0.02
Drives	0	@	700	=	0 S.F. =	0.00 Ac. 0.92 0.02
Patios	8	@	100	=	800 S.F. =	0.02 Ac. 0.92 0.02
Sidewalks				=	0 S.F. =	0.00 Ac. 0.92 0.02
Lawn (0-2%)			0 S.F.	=	0.00 Ac.	0.15 0.40
Lawn (2-5%)			38,627 S.F.	=	0.89 Ac.	0.25 0.40
Lawn (5-10%)			0 S.F.	=	0.00 Ac.	0.40 0.40
Lawn (>10%)			0 S.F.	=	0.00 Ac.	0.55 0.40
Water			0 S.F.	=	0.00 Ac.	1.00 0.00
Misc.			0 S.F.	=	0.00 Ac.	0.92 0.02

Weighted c =	0.417
Weighted N =	0.305
Sheet Flow	
L =	84 Ft.
H =	4.9 Ft.
S =	0.0476 Ft./Ft.
t1 =	7.66 Minutes
Open Channel Flow	
L =	303 Ft.
H =	8.5 Ft.
S =	0.0214 Ft./Ft.
v =	4.04 Ft./sec.
t2 =	1.25 Minutes
tc =	8.91 Minutes
I(10) =	In./Hr.
I(25) =	6.294 In./Hr.
I(50) =	In./Hr.
I(100) =	7.418 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	3.05 CFS
Q(50) =	0.00 CFS
Q(100) =	3.65 CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	4		Total Area = 37,753 S.F. 0.87 Acres			
Surface						
Structures	2	@	3000	=	6,000 S.F. =	0.14 Ac. 0.92 0.02
Pavement				=	11,127 S.F. =	0.26 Ac. 0.92 0.02
Drives	4	@	700	=	2,800 S.F. =	0.06 Ac. 0.92 0.02
Patios	0	@	100	=	0 S.F. =	0.00 Ac. 0.92 0.02
Sidewalks				=	0 S.F. =	0.00 Ac. 0.92 0.02
Lawn (0-2%)			0 S.F.	=	0.00 Ac.	0.15 0.40
Lawn (2-5%)			17,826 S.F.	=	0.41 Ac.	0.25 0.40
Lawn (5-10%)			0 S.F.	=	0.00 Ac.	0.40 0.40
Lawn (>10%)			0 S.F.	=	0.00 Ac.	0.55 0.40
Water			0 S.F.	=	0.00 Ac.	1.00 0.00
Misc.			0 S.F.	=	0.00 Ac.	0.92 0.02

Weighted c =	0.604
Weighted N =	0.199
Sheet Flow	
L =	300 Ft.
H =	6.5 Ft.
S =	0.0217 Ft./Ft.
t1 =	13.67 Minutes
Shallow Concentrated Flow	
L =	272 Ft.
H =	4.5 Ft.
S =	0.0164 Ft./Ft.
v =	2.60 Ft./sec.
t2 =	1.74 Minutes
tc =	15.42 Minutes
I(10) =	In./Hr.
I(25) =	4.995 In./Hr.
I(50) =	In./Hr.
I(100) =	6.159 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.61 CFS
Q(50) =	0.00 CFS
Q(100) =	3.22 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	5		Total Area =	69,129 S.F.	
				1.59 Acres	
Surface			C	N	
Structures	4.5	@ 3000	= 13,500 S.F. =	0.31 Ac.	0.92 0.02
Pavement			= 12,777 S.F. =	0.29 Ac.	0.92 0.02
Drives	8	@ 700	= 5,600 S.F. =	0.13 Ac.	0.92 0.02
Patios	1	@ 100	= 100 S.F. =	0.00 Ac.	0.92 0.02
Sidewalks			= 0 S.F. =	0.00 Ac.	0.92 0.02
Lawn (0-2%)		0 S.F.	=	0.00 Ac.	0.15 0.40
Lawn (2-5%)		62,706 S.F.	=	1.44 Ac.	0.25 0.40
Lawn (5-10%)		0 S.F.	=	0.00 Ac.	0.40 0.40
Lawn (>10%)		0 S.F.	=	0.00 Ac.	0.55 0.40
Water		0 S.F.	=	0.00 Ac.	1.00 0.00
Misc.		0 S.F.	=	0.00 Ac.	0.92 0.02

Weighted c =	0.652
Weighted N =	0.372
Sheet Flow	
L =	300 Ft.
H =	8.1 Ft.
S =	0.0270 Ft./Ft.
t1 =	17.38 Minutes
Shallow Concentrated Flow	
L =	437 Ft.
H =	7.2 Ft.
S =	0.0165 Ft./Ft.
v =	2.70 Ft./sec.
t2 =	2.70 Minutes
tc =	20.08 Minutes
I(10) =	In./Hr.
I(25) =	4.564 In./Hr.
I(50) =	In./Hr.
I(100) =	5.657 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	4.72 CFS
Q(50) =	0.00 CFS
Q(100) =	5.86 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	6		Total Area =	12,700 S.F.	
				0.29 Acres	
Surface			C	N	
Structures	1	@ 3000	= 3,000 S.F. =	0.07 Ac.	0.92 0.02
Pavement			= 0 S.F. =	0.00 Ac.	0.92 0.02
Drives	0	@ 700	= 0 S.F. =	0.00 Ac.	0.92 0.02
Patios	2	@ 100	= 200 S.F. =	0.00 Ac.	0.92 0.02
Sidewalks			= 0 S.F. =	0.00 Ac.	0.92 0.02
Lawn (0-2%)		0 S.F.	=	0.00 Ac.	0.15 0.40
Lawn (2-5%)		9,500 S.F.	=	0.22 Ac.	0.25 0.40
Lawn (5-10%)		0 S.F.	=	0.00 Ac.	0.40 0.40
Lawn (>10%)		0 S.F.	=	0.00 Ac.	0.55 0.40
Water		0 S.F.	=	0.00 Ac.	1.00 0.00
Misc.		0 S.F.	=	0.00 Ac.	0.92 0.02

Weighted c =	0.419
Weighted N =	0.304
Sheet Flow	
L =	77 Ft.
H =	1.5 Ft.
S =	0.0196 Ft./Ft.
t1 =	9.01 Minutes
Open Channel Flow	
L =	145 Ft.
H =	1.2 Ft.
S =	0.0081 Ft./Ft.
v =	2.48 Ft./sec.
t2 =	0.97 Minutes
tc =	9.98 Minutes
I(10) =	In./Hr.
I(25) =	5.930 In./Hr.
I(50) =	In./Hr.
I(100) =	7.131 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	0.72 CFS
Q(50) =	0.00 CFS
Q(100) =	0.87 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	7		Total Area =	17,039 S.F.	
				0.39 Acres	
Surface					
				C	N
Structures	1	@	3000 =	3,000 S.F. =	0.07 Ac. 0.92
Pavement			=	4,809 S.F. =	0.11 Ac. 0.92
Drives	2	@	700 =	1,400 S.F. =	0.03 Ac. 0.92
Patios	0	@	100 =	0 S.F. =	0.00 Ac. 0.92
Sidewalks			=	0 S.F. =	0.00 Ac. 0.92
Lawn (0-2%)			=	0 S.F. =	0.00 Ac. 0.15
Lawn (2-5%)			=	7,830 S.F. =	0.18 Ac. 0.25
Lawn (5-10%)			=	0 S.F. =	0.00 Ac. 0.40
Lawn (>10%)			=	0 S.F. =	0.00 Ac. 0.55
Water			=	0 S.F. =	0.00 Ac. 1.00
Misc.			=	0 S.F. =	0.00 Ac. 0.92

Weighted c =	0.612
Weighted N =	0.195
Sheet Flow	
L =	300 Ft.
H =	3.9 Ft.
S =	0.0130 Ft./Ft.
t1 =	15.23 Minutes
Shallow Concentrated Flow	
L =	49 Ft.
H =	0.9 Ft.
S =	0.0172 Ft./Ft.
v =	2.70 Ft./sec.
t2 =	0.30 Minutes
tc =	15.54 Minutes
I(10) =	In./Hr.
I(25) =	4.983 In./Hr.
I(50) =	In./Hr.
I(100) =	6.137 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	1.19 CFS
Q(50) =	0.00 CFS
Q(100) =	1.47 CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	8		Total Area =	25,354 S.F.	
				0.58 Acres	
Surface					
				C	N
Structures	1.5	@	3000 =	4,500 S.F. =	0.10 Ac. 0.92
Pavement			=	6,145 S.F. =	0.14 Ac. 0.92
Drives	3	@	700 =	2,100 S.F. =	0.05 Ac. 0.92
Patios	0	@	100 =	0 S.F. =	0.00 Ac. 0.92
Sidewalks			=	0 S.F. =	0.00 Ac. 0.92
Lawn (0-2%)			=	0 S.F. =	0.00 Ac. 0.15
Lawn (2-5%)			=	12,609 S.F. =	0.29 Ac. 0.25
Lawn (5-10%)			=	0 S.F. =	0.00 Ac. 0.40
Lawn (>10%)			=	0 S.F. =	0.00 Ac. 0.55
Water			=	0 S.F. =	0.00 Ac. 1.00
Misc.			=	0 S.F. =	0.00 Ac. 0.92

Weighted c =	0.587
Weighted N =	0.209
Sheet Flow	
L =	300 Ft.
H =	3.6 Ft.
S =	0.0120 Ft./Ft.
t1 =	16.04 Minutes
Shallow Concentrated Flow	
L =	147 Ft.
H =	2.3 Ft.
S =	0.0157 Ft./Ft.
v =	2.60 Ft./sec.
t2 =	0.94 Minutes
tc =	16.98 Minutes
I(10) =	In./Hr.
I(25) =	4.849 In./Hr.
I(50) =	In./Hr.
I(100) =	5.984 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	1.66 CFS
Q(50) =	0.00 CFS
Q(100) =	2.04 CFS

(Min. 5 minutes)

(From HRPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	9		Total Area =	20,269 S.F.	
				0.47 Acres	
Surface					
Structures	1.5	@	3000	= 4,500 S.F. =	0.10 Ac. 0.92 0.02
Pavement				= 0 S.F. =	0.00 Ac. 0.92 0.02
Drives	0	@	700	= 0 S.F. =	0.00 Ac. 0.92 0.02
Patios	3	@	100	= 300 S.F. =	0.01 Ac. 0.92 0.02
Sidewalks				= 0 S.F. =	0.00 Ac. 0.92 0.02
Lawn (0-2%)			0 S.F.	=	0.00 Ac. 0.15 0.40
Lawn (2-5%)			7,535 S.F.	=	0.17 Ac. 0.25 0.40
Lawn (5-10%)			0 S.F.	=	0.00 Ac. 0.40 0.40
Lawn (>10%)			7,934 S.F.	=	0.18 Ac. 0.55 0.40
Water			0 S.F.	=	0.00 Ac. 1.00 0.00
Misc.			0 S.F.	=	0.00 Ac. 0.92 0.02

Weighted c =	0.526
Weighted N =	0.310
Sheet Flow	
L =	31 Ft.
H =	1.0 Ft.
S =	0.0321 Ft./Ft.
t1 =	5.33 Minutes
Open Channel Flow	
L =	136 Ft.
H =	4.3 Ft.
S =	0.0318 Ft./Ft.
v =	4.92 Ft./sec.
t2 =	0.46 Minutes
tc =	5.79 Minutes
I(10) =	In./Hr.
I(25) =	7.005 In./Hr.
I(50) =	In./Hr.
I(100) =	8.257 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	1.71 CFS
Q(50) =	0.00 CFS
Q(100) =	2.02 CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	10		Total Area =	124,954 S.F.	
				2.87 Acres	
Surface					
Structures	6.5	@	3000	= 19,500 S.F. =	0.45 Ac. 0.92 0.02
Pavement				= 0 S.F. =	0.00 Ac. 0.92 0.02
Drives	0	@	700	= 0 S.F. =	0.00 Ac. 0.92 0.02
Patios	13	@	100	= 1,300 S.F. =	0.03 Ac. 0.92 0.02
Sidewalks				= 0 S.F. =	0.00 Ac. 0.92 0.02
Lawn (0-2%)			0 S.F.	=	0.00 Ac. 0.15 0.40
Lawn (2-5%)			104,154 S.F.	=	2.39 Ac. 0.25 0.40
Lawn (5-10%)			0 S.F.	=	0.00 Ac. 0.40 0.40
Lawn (>10%)			0 S.F.	=	0.00 Ac. 0.55 0.40
Water			0 S.F.	=	0.00 Ac. 1.00 0.00
Misc.			0 S.F.	=	0.00 Ac. 0.92 0.02

Weighted c =	0.362
Weighted N =	0.337
Sheet Flow	
L =	89 Ft.
H =	0.6 Ft.
S =	0.0068 Ft./Ft.
t1 =	12.96 Minutes
Open Channel Flow	
L =	837 Ft.
H =	8.2 Ft.
S =	0.0098 Ft./Ft.
v =	22.73 Ft./sec.
t2 =	0.61 Minutes
tc =	13.58 Minutes
I(10) =	In./Hr.
I(25) =	5.257 In./Hr.
I(50) =	In./Hr.
I(100) =	6.459 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	5.48 CFS
Q(50) =	0.00 CFS
Q(100) =	6.70 CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:		11		Total Area =		56,975 S.F.	
						1.31 Acres	
Surface				C	N		
Structures	4	@	3000	=	12,000 S.F.	=	0.28 Ac.
Pavement				=	8,668 S.F.	=	0.20 Ac.
Drives	7.5	@	700	=	5,250 S.F.	=	0.12 Ac.
Patios	1	@	100	=	100 S.F.	=	0.00 Ac.
Sidewalks				=	0 S.F.	=	0.00 Ac.
Lawn (0-2%)			0	S.F.	=	0.00 Ac.	0.15
Lawn (2-5%)			26,244	S.F.	=	0.60 Ac.	0.25
Lawn (5-10%)			0	S.F.	=	0.00 Ac.	0.40
Lawn (>10%)			4,713	S.F.	=	0.11 Ac.	0.55
Water			0	S.F.	=	0.00 Ac.	1.00
Misc.			0	S.F.	=	0.00 Ac.	0.92

Weighted c =	0.581
Weighted N =	0.226
Sheet Flow	
L =	300 Ft.
H =	9.6 Ft.
S =	0.0320 Ft./Ft.
t1 =	13.25 Minutes
Shallow Concentrated Flow	
L =	408 Ft.
H =	4.2 Ft.
S =	0.0104 Ft./Ft.
v =	2.00 Ft./sec.
t2 =	3.40 Minutes
tc =	16.65 Minutes
I(10) =	In./Hr.
I(25) =	4.880 In./Hr.
I(50) =	In./Hr.
I(100) =	6.020 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	3.71 CFS
Q(50) =	0.00 CFS
Q(100) =	4.57 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:		12		Total Area =		41,681 S.F.	
						0.96 Acres	
Surface				C	N		
Structures	3	@	3000	=	9,000 S.F.	=	0.21 Ac.
Pavement				=	8,667 S.F.	=	0.20 Ac.
Drives	6	@	700	=	4,200 S.F.	=	0.10 Ac.
Patios	0	@	100	=	0 S.F.	=	0.00 Ac.
Sidewalks				=	0 S.F.	=	0.00 Ac.
Lawn (0-2%)			0	S.F.	=	0.00 Ac.	0.15
Lawn (2-5%)			19,814	S.F.	=	0.45 Ac.	0.25
Lawn (5-10%)			0	S.F.	=	0.00 Ac.	0.40
Lawn (>10%)			0	S.F.	=	0.00 Ac.	0.55
Water			0	S.F.	=	0.00 Ac.	1.00
Misc.			0	S.F.	=	0.00 Ac.	0.92

Weighted c =	0.602
Weighted N =	0.201
Sheet Flow	
L =	300 Ft.
H =	4.0 Ft.
S =	0.0133 Ft./Ft.
t1 =	15.36 Minutes
Shallow Concentrated Flow	
L =	305 Ft.
H =	2.7 Ft.
S =	0.0088 Ft./Ft.
v =	1.95 Ft./sec.
t2 =	2.61 Minutes
tc =	17.97 Minutes
I(10) =	In./Hr.
I(25) =	4.759 In./Hr.
I(50) =	In./Hr.
I(100) =	5.860 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.74 CFS
Q(50) =	0.00 CFS
Q(100) =	3.38 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: **13** Total Area = **140,114 S.F.**
3.22 Acres

Surface						C	N
Structures	4.25	@	3000	=	12,750 S.F.	=	0.29 Ac.
Pavement				=	0 S.F.	=	0.00 Ac.
Drives	0.5	@	700	=	350 S.F.	=	0.01 Ac.
Patios	9	@	100	=	900 S.F.	=	0.02 Ac.
Sidewalks				=	0 S.F.	=	0.00 Ac.
Lawn (0-2%)				=	0 S.F.	=	0.00 Ac.
Lawn (2-5%)				=	77,225 S.F.	=	1.77 Ac.
Lawn (5-10%)				=	0 S.F.	=	0.00 Ac.
Lawn (>10%)				=	9,049 S.F.	=	0.21 Ac.
Water				=	39,840 S.F.	=	0.91 Ac.
Misc.				=	0 S.F.	=	0.00 Ac.

Weighted c =	0.550
Weighted N =	0.248
Sheet Flow	
L =	57 Ft.
H =	1.6 Ft.
S =	0.0240 Ft./Ft.
t1 =	7.32 Minutes
Open Channel Flow	
L =	494 Ft.
H =	15.7 Ft.
S =	0.0338 Ft./Ft.
v =	5.07 Ft./sec.
t2 =	1.62 Minutes
tc =	8.95 Minutes
I(10) =	In./Hr.
I(25) =	6.195 In./Hr.
I(50) =	In./Hr.
I(100) =	7.409 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	10.95 CFS
Q(50) =	0.00 CFS
Q(100) =	13.10 CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: **14** Total Area = **36,526 S.F.**
0.84 Acres

Surface						C	N
Structures	2.5	@	3000	=	7,500 S.F.	=	0.17 Ac.
Pavement				=	8,557 S.F.	=	0.20 Ac.
Drives	5	@	700	=	3,500 S.F.	=	0.08 Ac.
Patios	0	@	100	=	0 S.F.	=	0.00 Ac.
Sidewalks				=	0 S.F.	=	0.00 Ac.
Lawn (0-2%)				=	0 S.F.	=	0.00 Ac.
Lawn (2-5%)				=	16,969 S.F.	=	0.39 Ac.
Lawn (5-10%)				=	0 S.F.	=	0.00 Ac.
Lawn (>10%)				=	0 S.F.	=	0.00 Ac.
Water				=	0 S.F.	=	0.00 Ac.
Misc.				=	0 S.F.	=	0.00 Ac.

Weighted c =	0.609
Weighted N =	0.197
Sheet Flow	
L =	300 Ft.
H =	4.5 Ft.
S =	0.0150 Ft./Ft.
t1 =	14.80 Minutes
Shallow Concentrated Flow	
L =	210 Ft.
H =	3.0 Ft.
S =	0.0143 Ft./Ft.
v =	2.40 Ft./sec.
t2 =	1.46 Minutes
tc =	16.26 Minutes
I(10) =	In./Hr.
I(25) =	4.917 In./Hr.
I(50) =	In./Hr.
I(100) =	6.061 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.51 CFS
Q(50) =	0.00 CFS
Q(100) =	3.09 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	15	Total Area =	23,148 S.F.
			0.53 Acres
Surface			
Structures	1 @	3000 =	3,000 S.F. = 0.07 Ac. 0.92 0.02
Pavement		=	5,982 S.F. = 0.14 Ac. 0.92 0.02
Drives	2 @	700 =	1,400 S.F. = 0.03 Ac. 0.92 0.02
Patios	0 @	100 =	0 S.F. = 0.00 Ac. 0.92 0.02
Sidewalks		=	0 S.F. = 0.00 Ac. 0.92 0.02
Lawn (0-2%)		0 S.F. =	0.00 Ac. 0.15 0.40
Lawn (2-5%)		12,766 S.F. =	0.29 Ac. 0.25 0.40
Lawn (5-10%)		0 S.F. =	0.00 Ac. 0.40 0.40
Lawn (>10%)		0 S.F. =	0.00 Ac. 0.55 0.40
Water		0 S.F. =	0.00 Ac. 1.00 0.00
Misc.		0 S.F. =	0.00 Ac. 0.92 0.02

Weighted c =	0.550
Weighted N =	0.230
Sheet Flow	
L =	300 Ft.
H =	5.1 Ft.
S =	0.0170 Ft./Ft.
t1 =	15.45 Minutes
(Min. 5 minutes)	
Shallow Concentrated Flow	
L =	93 Ft.
H =	1.0 Ft.
S =	0.0107 Ft./Ft.
v =	2.10 Ft./sec.
t2 =	0.74 Minutes
(From HERPICC Figure 3.4.5)	
tc =	16.19 Minutes
I(10) =	In./Hr.
I(25) =	4.923 In./Hr.
I(50) =	In./Hr.
I(100) =	6.068 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	1.44 CFS
Q(50) =	0.00 CFS
Q(100) =	1.78 CFS

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	16	Total Area =	43,642 S.F.
			1.00 Acres
Surface			
Structures	3.5 @	3000 =	10,500 S.F. = 0.24 Ac. 0.92 0.02
Pavement		=	8,330 S.F. = 0.19 Ac. 0.92 0.02
Drives	7 @	700 =	4,900 S.F. = 0.11 Ac. 0.92 0.02
Patios	0 @	100 =	0 S.F. = 0.00 Ac. 0.92 0.02
Sidewalks		=	0 S.F. = 0.00 Ac. 0.92 0.02
Lawn (0-2%)		0 S.F. =	0.00 Ac. 0.15 0.40
Lawn (2-5%)		19,912 S.F. =	0.46 Ac. 0.25 0.40
Lawn (5-10%)		0 S.F. =	0.00 Ac. 0.40 0.40
Lawn (>10%)		0 S.F. =	0.00 Ac. 0.55 0.40
Water		0 S.F. =	0.00 Ac. 1.00 0.00
Misc.		0 S.F. =	0.00 Ac. 0.92 0.02

Weighted c =	0.614
Weighted N =	0.193
Sheet Flow	
L =	300 Ft.
H =	2.8 Ft.
S =	0.0093 Ft./Ft.
t1 =	16.41 Minutes
(Min. 5 minutes)	
Shallow Concentrated Flow	
L =	125 Ft.
H =	0.8 Ft.
S =	0.0064 Ft./Ft.
v =	1.65 Ft./sec.
t2 =	1.26 Minutes
(From HERPICC Figure 3.4.5)	
tc =	17.67 Minutes
I(10) =	In./Hr.
I(25) =	4.785 In./Hr.
I(50) =	In./Hr.
I(100) =	5.912 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.95 CFS
Q(50) =	0.00 CFS
Q(100) =	3.64 CFS

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:		17		Total Area =		15,480 S.F.	
						0.36 Acres	
Surface						C	N
Structures	0	@	3000	=	0 S.F. =	0.00 Ac.	0.92 0.02
Pavement				=	8,367 S.F. =	0.19 Ac.	0.92 0.02
Drives	0	@	700	=	0 S.F. =	0.00 Ac.	0.92 0.02
Patios	0	@	100	=	0 S.F. =	0.00 Ac.	0.92 0.02
Sidewalks				=	0 S.F. =	0.00 Ac.	0.92 0.02
Lawn (0-2%)			0 S.F.	=		0.00 Ac.	0.15 0.40
Lawn (2-5%)			7,113 S.F.	=		0.16 Ac.	0.25 0.40
Lawn (5-10%)			0 S.F.	=		0.00 Ac.	0.40 0.40
Lawn (>10%)			0 S.F.	=		0.00 Ac.	0.55 0.40
Water			0 S.F.	=		0.00 Ac.	1.00 0.00
Misc.			0 S.F.	=		0.00 Ac.	0.92 0.02

Weighted c =	0.612
Weighted N =	0.195
Sheet Flow	
L =	300 Ft.
H =	2.8 Ft.
S =	0.0093 Ft./Ft.
t1 =	16.46 Minutes
Shallow Concentrated Flow	
L =	115 Ft.
H =	0.8 Ft.
S =	0.0070 Ft./Ft.
v =	1.65 Ft./sec.
t2 =	1.16 Minutes
tc =	17.61 Minutes
I(10) =	In./Hr.
I(25) =	4.791 In./Hr.
I(50) =	In./Hr.
I(100) =	5.915 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	1.04 CFS
Q(50) =	0.00 CFS
Q(100) =	1.29 CFS

(Min. 5 minutes)
(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:		18		Total Area =		105,670 S.F.	
						2.43 Acres	
Surface						C	N
Structures	5	@	3000	=	15,000 S.F. =	0.34 Ac.	0.92 0.02
Pavement				=	0 S.F. =	0.00 Ac.	0.92 0.02
Drives	0	@	700	=	0 S.F. =	0.00 Ac.	0.92 0.02
Patios	10	@	100	=	1,000 S.F. =	0.02 Ac.	0.92 0.02
Sidewalks				=	0 S.F. =	0.00 Ac.	0.92 0.02
Lawn (0-2%)			0 S.F.	=		0.00 Ac.	0.15 0.40
Lawn (2-5%)			0 S.F.	=		0.00 Ac.	0.25 0.40
Lawn (5-10%)			17,751 S.F.	=		0.41 Ac.	0.40 0.40
Lawn (>10%)			71,919 S.F.	=		1.65 Ac.	0.55 0.40
Water			0 S.F.	=		0.00 Ac.	1.00 0.00
Misc.			0 S.F.	=		0.00 Ac.	0.92 0.02

Weighted c =	0.581
Weighted N =	0.342
Sheet Flow	
L =	165 Ft.
H =	0.5 Ft.
S =	0.0030 Ft./Ft.
t1 =	21.04 Minutes
Open Channel Flow	
L =	600 Ft.
H =	14.5 Ft.
S =	0.0242 Ft./Ft.
v =	4.29 Ft./sec.
t2 =	2.33 Minutes
tc =	23.37 Minutes
I(10) =	In./Hr.
I(25) =	4.459 In./Hr.
I(50) =	In./Hr.
I(100) =	5.309 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	6.00 CFS
Q(50) =	0.00 CFS
Q(100) =	7.48 CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	19		Total Area =	69,497 S.F.	
				1.60 Acres	
Surface					
Structures	1	@	3000	= 3,000 S.F. =	0.07 Ac. 0.92 0.02
Pavement				= 0 S.F. =	0.00 Ac. 0.92 0.02
Drives	0	@	700	= 0 S.F. =	0.00 Ac. 0.92 0.02
Patios	2	@	100	= 200 S.F. =	0.00 Ac. 0.92 0.02
Sidewalks				= 0 S.F. =	0.00 Ac. 0.92 0.02
Lawn (0-2%)			0 S.F. =	0.00 Ac.	0.15 0.40
Lawn (2-5%)			0 S.F. =	0.00 Ac.	0.25 0.40
Lawn (5-10%)			66,297 S.F. =	1.52 Ac.	0.40 0.40
Lawn (>10%)			0 S.F. =	0.00 Ac.	0.55 0.40
Water			0 S.F. =	0.00 Ac.	1.00 0.00
Misc.			0 S.F. =	0.00 Ac.	0.92 0.02

Weighted c =	0.424
Weighted N =	0.383
Sheet Flow	
L =	268 Ft.
H =	11.0 Ft.
S =	0.0411 Ft./Ft.
t1 =	15.13 Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	0.00 Ft./sec.
t2 =	0.00 Minutes
tc =	15.13 Minutes
I(10) =	In./Hr.
I(25) =	5.021 In./Hr.
I(50) =	In./Hr.
I(100) =	6.181 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	3.40 CFS
Q(50) =	0.00 CFS
Q(100) =	4.18 CFS

(Min. 5 minutes)
(From HRPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	20		Total Area =	24,220 S.F.	
				0.56 Acres	
Surface					
Structures	1.5	@	3000	= 4,500 S.F. =	0.10 Ac. 0.92 0.02
Pavement				= 5,016 S.F. =	0.12 Ac. 0.92 0.02
Drives	3	@	700	= 2,100 S.F. =	0.05 Ac. 0.92 0.02
Patios	0	@	100	= 0 S.F. =	0.00 Ac. 0.92 0.02
Sidewalks				= 0 S.F. =	0.00 Ac. 0.92 0.02
Lawn (0-2%)			0 S.F. =	0.00 Ac.	0.15 0.40
Lawn (2-5%)			12,604 S.F. =	0.29 Ac.	0.25 0.40
Lawn (5-10%)			0 S.F. =	0.00 Ac.	0.40 0.40
Lawn (>10%)			0 S.F. =	0.00 Ac.	0.55 0.40
Water			0 S.F. =	0.00 Ac.	1.00 0.00
Misc.			0 S.F. =	0.00 Ac.	0.92 0.02

Weighted c =	0.571
Weighted N =	0.218
Sheet Flow	
L =	300 Ft.
H =	3.9 Ft.
S =	0.0130 Ft./Ft.
t1 =	16.05 Minutes
Shallow Concentrated Flow	
L =	13 Ft.
H =	0.1 Ft.
S =	0.0069 Ft./Ft.
v =	1.70 Ft./sec.
t2 =	0.13 Minutes
tc =	16.18 Minutes
I(10) =	In./Hr.
I(25) =	4.924 In./Hr.
I(50) =	In./Hr.
I(100) =	6.069 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	1.56 CFS
Q(50) =	0.00 CFS
Q(100) =	1.93 CFS

(Min. 5 minutes)
(From HRPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	21		Total Area =		11,272 S.F.		0.26 Acres	
Surface								
Structures	0.5	@	3000	=	1,500 S.F.	=	0.03 Ac.	0.92
Pavement				=	5,016 S.F.	=	0.12 Ac.	0.92
Drives	1	@	700	=	700 S.F.	=	0.02 Ac.	0.92
Patios	0	@	100	=	0 S.F.	=	0.00 Ac.	0.92
Sidewalks				=	0 S.F.	=	0.00 Ac.	0.92
Lawn (0-2%)				=	0 S.F.	=	0.00 Ac.	0.15
Lawn (2-5%)				=	0 S.F.	=	0.00 Ac.	0.25
Lawn (5-10%)				=	0 S.F.	=	0.00 Ac.	0.40
Lawn (>10%)				=	0 S.F.	=	0.00 Ac.	0.55
Water				=	0 S.F.	=	0.00 Ac.	1.00
Misc.				=	0 S.F.	=	0.00 Ac.	0.92

Weighted c =	0.643
Weighted N =	0.157
Sheet Flow	
L =	1.00 Ft.
H =	1.8 Ft.
S =	0.0100 Ft./Ft.
t1 =	11.54 Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	0.00 Ft./sec.
t2 =	0.00 Minutes
tc =	11.54 Minutes
I(10) =	In./Hr.
I(25) =	5.649 In./Hr.
I(50) =	In./Hr.
I(100) =	6.838 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	0.94 CFS
Q(50) =	0.00 CFS
Q(100) =	1.14 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	22		Total Area =		85,741 S.F.		1.97 Acres	
Surface								
Structures	5.5	@	3000	=	16,500 S.F.	=	0.38 Ac.	0.92
Pavement				=	0 S.F.	=	0.00 Ac.	0.92
Drives	0	@	700	=	0 S.F.	=	0.00 Ac.	0.92
Patios	11	@	100	=	1,100 S.F.	=	0.03 Ac.	0.92
Sidewalks				=	0 S.F.	=	0.00 Ac.	0.92
Lawn (0-2%)				=	0 S.F.	=	0.00 Ac.	0.15
Lawn (2-5%)				=	0 S.F.	=	0.00 Ac.	0.25
Lawn (5-10%)				=	23,809 S.F.	=	0.55 Ac.	0.40
Lawn (>10%)				=	44,332 S.F.	=	1.02 Ac.	0.55
Water				=	0 S.F.	=	0.00 Ac.	1.00
Misc.				=	0 S.F.	=	0.00 Ac.	0.92

Weighted c =	0.584
Weighted N =	0.322
Sheet Flow	
L =	88 Ft.
H =	4.8 Ft.
S =	0.0544 Ft./Ft.
t1 =	7.79 Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	0.00 Ft./sec.
t2 =	0.00 Minutes
tc =	7.79 Minutes
I(10) =	In./Hr.
I(25) =	6.493 In./Hr.
I(50) =	In./Hr.
I(100) =	7.720 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	7.47 CFS
Q(50) =	0.00 CFS
Q(100) =	8.88 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:		23		Total Area =		59,863 S.F.	
						1.37 Acres	
Surface						C	N
Structures	1	@	3000	=	3,000 S.F.	=	0.07 Ac.
Pavement				=	0 S.F.	=	0.00 Ac.
Drives	0	@	700	=	0 S.F.	=	0.00 Ac.
Patios	2	@	100	=	200 S.F.	=	0.00 Ac.
Sidewalks				=	0 S.F.	=	0.00 Ac.
Lawn (0-2%)			0 S.F.	=	0 S.F.	=	0.00 Ac.
Lawn (2-5%)			2,817 S.F.	=	2,817 S.F.	=	0.06 Ac.
Lawn (5-10%)			0 S.F.	=	0 S.F.	=	0.00 Ac.
Lawn (>10%)			53,846 S.F.	=	53,846 S.F.	=	1.24 Ac.
Water			0 S.F.	=	0 S.F.	=	0.00 Ac.
Misc.			0 S.F.	=	0 S.F.	=	0.00 Ac.

Weighted c =	0.556
Weighted N =	0.380
Sheet Flow	
L =	144 Ft.
H =	14.8 Ft.
S =	0.1031 Ft./Ft.
t1 =	9.09 Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	0.00 Ft./sec.
t2 =	0.00 Minutes
tc =	9.09 Minutes
I(10) =	In./Hr.
I(25) =	6.158 In./Hr.
I(50) =	In./Hr.
I(100) =	7.370 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	4.70 CFS
Q(50) =	0.00 CFS
Q(100) =	5.63 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:		24		Total Area =		60,272 S.F.	
						1.38 Acres	
Surface						C	N
Structures	3.5	@	3000	=	10,500 S.F.	=	0.24 Ac.
Pavement				=	3,820 S.F.	=	0.09 Ac.
Drives	4	@	700	=	2,800 S.F.	=	0.06 Ac.
Patios	3	@	100	=	300 S.F.	=	0.01 Ac.
Sidewalks				=	0 S.F.	=	0.00 Ac.
Lawn (0-2%)			0 S.F.	=	0 S.F.	=	0.00 Ac.
Lawn (2-5%)			42,852 S.F.	=	42,852 S.F.	=	0.98 Ac.
Lawn (5-10%)			0 S.F.	=	0 S.F.	=	0.00 Ac.
Lawn (>10%)			0 S.F.	=	0 S.F.	=	0.00 Ac.
Water			0 S.F.	=	0 S.F.	=	0.00 Ac.
Misc.			0 S.F.	=	0 S.F.	=	0.00 Ac.

Weighted c =	0.444
Weighted N =	0.290
Sheet Flow	
L =	300 Ft.
H =	7.0 Ft.
S =	0.0233 Ft./Ft.
t1 =	16.01 Minutes
Shallow Concentrated Flow	
L =	168 Ft.
H =	5.4 Ft.
S =	0.0321 Ft./Ft.
v =	3.60 Ft./sec.
t2 =	0.78 Minutes
tc =	16.79 Minutes
I(10) =	In./Hr.
I(25) =	4.867 In./Hr.
I(50) =	In./Hr.
I(100) =	6.005 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.99 CFS
Q(50) =	0.00 CFS
Q(100) =	3.69 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	25	Total Area =	18,054 S.F.
			0.41 Acres
Surface			
			C
			N
Structures	1 @ 3000	= 3,000 S.F. =	0.07 Ac.
Pavement		= 3,652 S.F. =	0.08 Ac.
Drives	2 @ 700	= 1,400 S.F. =	0.03 Ac.
Patios	0 @ 100	= 0 S.F. =	0.00 Ac.
Sidewalks		= 0 S.F. =	0.00 Ac.
Lawn (0-2%)	0 S.F. =		0.00 Ac.
Lawn (2-5%)	10,002 S.F. =		0.23 Ac.
Lawn (5-10%)	0 S.F. =		0.00 Ac.
Lawn (>10%)	0 S.F. =		0.00 Ac.
Water	0 S.F. =		0.00 Ac.
Misc.	0 S.F. =		0.00 Ac.

Weighted c =	0.549
Weighted N =	0.231
Sheet Flow	
L =	299 Ft.
H =	9.2 Ft.
S =	0.0308 Ft./Ft.
t1 =	13.45 Minutes
(Min. 5 minutes)	
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	2.90 Ft./sec.
t2 =	0.00 Minutes
tc =	13.45 Minutes
I(10) =	In./Hr.
I(25) =	5.309 In./Hr.
I(50) =	In./Hr.
I(100) =	6.483 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	1.21 CFS
Q(50) =	0.00 CFS
Q(100) =	1.47 CFS

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	26	Total Area =	37,649 S.F.
			0.86 Acres
Surface			
			C
			N
Structures	3.25 @ 3000	= 9,750 S.F. =	0.22 Ac.
Pavement		= 6,515 S.F. =	0.15 Ac.
Drives	7 @ 700	= 4,900 S.F. =	0.11 Ac.
Patios	0 @ 100	= 0 S.F. =	0.00 Ac.
Sidewalks		= 0 S.F. =	0.00 Ac.
Lawn (0-2%)	0 S.F. =		0.00 Ac.
Lawn (2-5%)	16,484 S.F. =		0.38 Ac.
Lawn (5-10%)	0 S.F. =		0.00 Ac.
Lawn (>10%)	0 S.F. =		0.00 Ac.
Water	0 S.F. =		0.00 Ac.
Misc.	0 S.F. =		0.00 Ac.

Weighted c =	0.627
Weighted N =	0.186
Sheet Flow	
L =	300 Ft.
H =	3.4 Ft.
S =	0.0113 Ft./Ft.
t1 =	15.41 Minutes
(Min. 5 minutes)	
Shallow Concentrated Flow	
L =	208 Ft.
H =	4.3 Ft.
S =	0.0207 Ft./Ft.
v =	2.90 Ft./sec.
t2 =	1.19 Minutes
tc =	16.61 Minutes
I(10) =	In./Hr.
I(25) =	4.884 In./Hr.
I(50) =	In./Hr.
I(100) =	6.024 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.65 CFS
Q(50) =	0.00 CFS
Q(100) =	3.26 CFS

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	27		Total Area =		21,742 S.F.		
					0.50 Acres		
Surface							
Structures	1	@	3000	=	3,000 S.F. =	0.07 Ac.	0.92
Pavement				=	6,341 S.F. =	0.15 Ac.	0.92
Drives	2	@	700	=	1,400 S.F. =	0.03 Ac.	0.92
Patios	0	@	100	=	0 S.F. =	0.00 Ac.	0.92
Sidewalks				=	0 S.F. =	0.00 Ac.	0.92
Lawn (0-2%)			0 S.F.	=		0.00 Ac.	0.15
Lawn (2-5%)			11,001 S.F.	=		0.25 Ac.	0.25
Lawn (5-10%)			0 S.F.	=		0.00 Ac.	0.40
Lawn (>10%)			0 S.F.	=		0.00 Ac.	0.55
Water			0 S.F.	=		0.00 Ac.	1.00
Misc.			0 S.F.	=		0.00 Ac.	0.92

Weighted c =	0.581
Weighted N =	0.212
Sheet Flow	
L =	300 Ft.
H =	3.5 Ft.
S =	0.0083 Ft./Ft.
t1 =	17.60 Minutes
Shallow Concentrated Flow	
L =	146 Ft.
H =	3.7 Ft.
S =	0.0253 Ft./Ft.
v =	3.20 Ft./sec.
t2 =	0.76 Minutes
tc =	18.36 Minutes
I(10) =	In./Hr.
I(25) =	4.722 In./Hr.
I(50) =	In./Hr.
I(100) =	5.839 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	1.37 CFS
Q(50) =	0.00 CFS
Q(100) =	1.69 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	28		Total Area =		127,253 S.F.		
					2.92 Acres		
Surface							
Structures	6.75	@	3000	=	20,250 S.F. =	0.46 Ac.	0.92
Pavement				=	0 S.F. =	0.00 Ac.	0.92
Drives	0	@	700	=	0 S.F. =	0.00 Ac.	0.92
Patios	14	@	100	=	1,400 S.F. =	0.03 Ac.	0.92
Sidewalks				=	0 S.F. =	0.00 Ac.	0.92
Lawn (0-2%)			0 S.F.	=		0.00 Ac.	0.15
Lawn (2-5%)			195,603 S.F.	=		2.42 Ac.	0.25
Lawn (5-10%)			0 S.F.	=		0.00 Ac.	0.40
Lawn (>10%)			0 S.F.	=		0.00 Ac.	0.55
Water			0 S.F.	=		0.00 Ac.	1.00
Misc.			0 S.F.	=		0.00 Ac.	0.92

Weighted c =	0.364
Weighted N =	0.335
Sheet Flow	
L =	145 Ft.
H =	1.6 Ft.
S =	0.0111 Ft./Ft.
t1 =	14.50 Minutes
Open Channel Flow	
L =	450 Ft.
H =	3.6 Ft.
S =	0.0080 Ft./Ft.
v =	2.47 Ft./sec.
t2 =	3.04 Minutes
tc =	17.53143 Minutes
I(10) =	In./Hr.
I(25) =	4.799 In./Hr.
I(50) =	In./Hr.
I(100) =	5.926 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	5.10 CFS
Q(50) =	0.00 CFS
Q(100) =	6.30 CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:		29		Total Area =		71,868 S.F.	
						1.65 Acres	
Surface				C	N		
Structures	4.5	@	3000	=	13,500 S.F.	=	0.31 Ac.
Pavement				=	10,321 S.F.	=	0.24 Ac.
Drives	7	@	700	=	4,900 S.F.	=	0.11 Ac.
Patios	2	@	100	=	200 S.F.	=	0.00 Ac.
Sidewalks				=	0 S.F.	=	0.00 Ac.
Lawn (0-2%)		0	S.F.	=	0 S.F.	=	0.00 Ac.
Lawn (2-5%)		42,947	S.F.	=		=	0.99 Ac.
Lawn (5-10%)		0	S.F.	=	0 S.F.	=	0.00 Ac.
Lawn (>10%)		0	S.F.	=	0 S.F.	=	0.00 Ac.
Water		0	S.F.	=	0 S.F.	=	0.00 Ac.
Misc.		0	S.F.	=	0 S.F.	=	0.00 Ac.

Weighted c =	0.520
Weighted N =	0.247
Sheet Flow	
L =	300 Ft.
H =	2.8 Ft.
S =	0.0094 Ft./Ft.
t1 =	18.38 Minutes
Shallow Concentrated Flow	
L =	489 Ft.
H =	3.3 Ft.
S =	0.0067 Ft./Ft.
v =	1.70 Ft./sec.
t2 =	4.79 Minutes
tc =	23.18 Minutes
I(10) =	In./Hr.
I(25) =	4.277 In./Hr.
I(50) =	In./Hr.
I(100) =	5.329 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	3.67 CFS
Q(50) =	0.00 CFS
Q(100) =	4.57 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:		30		Total Area =		23,185 S.F.	
						0.53 Acres	
Surface				C	N		
Structures	1	@	3000	=	3,000 S.F.	=	0.07 Ac.
Pavement				=	5,694 S.F.	=	0.13 Ac.
Drives	2	@	700	=	1,400 S.F.	=	0.03 Ac.
Patios	0	@	100	=	0 S.F.	=	0.00 Ac.
Sidewalks				=	0 S.F.	=	0.00 Ac.
Lawn (0-2%)		0	S.F.	=	0 S.F.	=	0.00 Ac.
Lawn (2-5%)		13,091	S.F.	=		=	0.30 Ac.
Lawn (5-10%)		0	S.F.	=	0 S.F.	=	0.00 Ac.
Lawn (>10%)		0	S.F.	=	0 S.F.	=	0.00 Ac.
Water		0	S.F.	=	0 S.F.	=	0.00 Ac.
Misc.		0	S.F.	=	0 S.F.	=	0.00 Ac.

Weighted c =	0.542
Weighted N =	0.235
Sheet Flow	
L =	300 Ft.
H =	6.3 Ft.
S =	0.0210 Ft./Ft.
t1 =	14.86 Minutes
Shallow Concentrated Flow	
L =	101 Ft.
H =	0.7 Ft.
S =	0.0069 Ft./Ft.
v =	1.70 Ft./sec.
t2 =	0.99 Minutes
tc =	15.85 Minutes
I(10) =	In./Hr.
I(25) =	4.954 In./Hr.
I(50) =	In./Hr.
I(100) =	6.104 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	1.43 CFS
Q(50) =	0.00 CFS
Q(100) =	1.76 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	31		Total Area =	103,279 S.F.	
				2.37 Acres	
Surface				C	N
Structures	3.75	@	3000 =	11,250 S.F. =	0.26 Ac. 0.92 0.02
Pavement			=	0 S.F. =	0.00 Ac. 0.92 0.02
Drives	0	@	700 =	0 S.F. =	0.00 Ac. 0.92 0.02
Patios	8	@	100 =	800 S.F. =	0.02 Ac. 0.92 0.02
Sidewalks			=	0 S.F. =	0.00 Ac. 0.92 0.02
Lawn (0-2%)			0 S.F. =	0.00 Ac.	0.15 0.40
Lawn (2-5%)			91,229 S.F. =	2.09 Ac.	0.25 0.40
Lawn (5-10%)			0 S.F. =	0.00 Ac.	0.40 0.40
Lawn (>10%)			0 S.F. =	0.00 Ac.	0.55 0.40
Water			0 S.F. =	0.00 Ac.	1.00 0.00
Misc.			0 S.F. =	0.00 Ac.	0.92 0.02

Weighted c =	0.328
Weighted N =	0.356
Sheet Flow	
L =	101 Ft.
H =	2.2 Ft.
S =	0.0218 Ft./Ft.
t1 =	10.76 Minutes
Open Channel Flow	
L =	591 Ft.
H =	6.5 Ft.
S =	0.0110 Ft./Ft.
v =	2.89 Ft./sec.
t2 =	3.41 Minutes
tc =	14.17 Minutes
I(10) =	In./Hr.
I(25) =	5.181 In./Hr.
I(50) =	In./Hr.
I(100) =	6.349 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	4.03 CFS
Q(50) =	0.00 CFS
Q(100) =	4.94 CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	32		Total Area =	83,142 S.F.	
				1.91 Acres	
Surface				C	N
Structures	4	@	3000 =	12,000 S.F. =	0.28 Ac. 0.92 0.02
Pavement			=	7,899 S.F. =	0.18 Ac. 0.92 0.02
Drives	5	@	700 =	3,500 S.F. =	0.08 Ac. 0.92 0.02
Patios	3	@	100 =	300 S.F. =	0.01 Ac. 0.92 0.02
Sidewalks			=	0 S.F. =	0.00 Ac. 0.92 0.02
Lawn (0-2%)			0 S.F. =	0.00 Ac.	0.15 0.40
Lawn (2-5%)			59,443 S.F. =	1.36 Ac.	0.25 0.40
Lawn (5-10%)			0 S.F. =	0.00 Ac.	0.40 0.40
Lawn (>10%)			0 S.F. =	0.00 Ac.	0.55 0.40
Water			0 S.F. =	0.00 Ac.	1.00 0.00
Misc.			0 S.F. =	0.00 Ac.	0.92 0.02

Weighted c =	0.441
Weighted N =	0.292
Sheet Flow	
L =	300 Ft.
H =	6.9 Ft.
S =	0.0230 Ft./Ft.
t1 =	16.11 Minutes
Shallow Concentrated Flow	
L =	246 Ft.
H =	4.1 Ft.
S =	0.0167 Ft./Ft.
v =	2.70 Ft./sec.
t2 =	1.52 Minutes
tc =	17.62 Minutes
I(10) =	In./Hr.
I(25) =	4.791 In./Hr.
I(50) =	In./Hr.
I(100) =	5.917 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	4.03 CFS
Q(50) =	0.00 CFS
Q(100) =	4.98 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	33		Total Area =		32,499 S.F.		
					0.75 Acres		
Surface						C	N
Structures	2.5	@	3000	=	7,500 S.F. =	0.17 Ac.	0.92
Pavement				=	6,258 S.F. =	0.14 Ac.	0.92
Drives	5	@	700	=	3,500 S.F. =	0.08 Ac.	0.92
Patios	0	@	100	=	0 S.F. =	0.00 Ac.	0.92
Sidewalks				=	0 S.F. =	0.00 Ac.	0.92
Lawn (0-2%)			0 S.F.	=		0.00 Ac.	0.15
Lawn (2-5%)			15,241 S.F.	=		0.35 Ac.	0.25
Lawn (5-10%)			0 S.F.	=		0.00 Ac.	0.40
Lawn (>10%)			0 S.F.	=		0.00 Ac.	0.55
Water			0 S.F.	=		0.00 Ac.	1.00
Misc.			0 S.F.	=		0.00 Ac.	0.92

Weighted c =	0.606
Weighted N =	0.198
Sheet Flow	
L =	300 Ft.
H =	6.4 Ft.
S =	0.0213 Ft./Ft.
t1 =	13.68 Minutes
Shallow Concentrated Flow	
L =	92 Ft.
H =	1.4 Ft.
S =	0.0152 Ft./Ft.
v =	2.50 Ft./sec.
t2 =	0.61 Minutes
tc =	14.30 Minutes
I(10) =	In./Hr.
I(25) =	5.158 In./Hr.
I(50) =	In./Hr.
I(100) =	6.325 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.33 CFS
Q(50) =	0.00 CFS
Q(100) =	2.86 CFS

(Min. 5 minutes)
(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	34		Total Area =		25,368 S.F.		
					0.58 Acres		
Surface						C	N
Structures	2	@	3000	=	6,000 S.F. =	0.14 Ac.	0.92
Pavement				=	0 S.F. =	0.00 Ac.	0.92
Drives	0	@	700	=	0 S.F. =	0.00 Ac.	0.92
Patios	4	@	100	=	400 S.F. =	0.01 Ac.	0.92
Sidewalks				=	0 S.F. =	0.00 Ac.	0.92
Lawn (0-2%)			0 S.F.	=		0.00 Ac.	0.15
Lawn (2-5%)			0 S.F.	=		0.00 Ac.	0.25
Lawn (5-10%)			18,968 S.F.	=		0.44 Ac.	0.40
Lawn (>10%)			0 S.F.	=		0.00 Ac.	0.55
Water			0 S.F.	=		0.00 Ac.	1.00
Misc.			0 S.F.	=		0.00 Ac.	0.92

Weighted c =	0.531
Weighted N =	0.304
Sheet Flow	
L =	81 Ft.
H =	2.9 Ft.
S =	0.0359 Ft./Ft.
t1 =	8.01 Minutes
Open Channel Flow	
L =	274 Ft.
H =	2.2 Ft.
S =	0.0080 Ft./Ft.
v =	2.47 Ft./sec.
t2 =	1.85 Minutes
tc =	9.86 Minutes
I(10) =	In./Hr.
I(25) =	5.960 In./Hr.
I(50) =	In./Hr.
I(100) =	7.163 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	1.84 CFS
Q(50) =	0.00 CFS
Q(100) =	2.22 CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS									
Basin No.:		35		Total Area = 39,854 S.F.					
				0.91 Acres					
Surface									
							C	N	
Structures	2.75	@	3000	=	8,250 S.F.	=	0.19 Ac.	0.92	0.02
Pavement				=	8,885 S.F.	=	0.20 Ac.	0.92	0.02
Drives	5.5	@	700	=	3,850 S.F.	=	0.09 Ac.	0.92	0.02
Patios	0	@	100	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Sidewalks				=	0 S.F.	=	0.00 Ac.	0.92	0.02
Lawn (0-2%)			0 S.F.	=	0.00 Ac.	=	0.15	0.40	
Lawn (2-5%)			13,869 S.F.	=	0.43 Ac.	=	0.25	0.40	
Lawn (5-10%)			0 S.F.	=	0.00 Ac.	=	0.40	0.40	
Lawn (>10%)			0 S.F.	=	0.00 Ac.	=	0.55	0.40	
Water			0 S.F.	=	0.00 Ac.	=	1.00	0.00	
Misc.			0 S.F.	=	0.00 Ac.	=	0.92	0.02	

Weighted c =	0.603
Weighted N =	0.200
Sheet Flow	
L =	300 Ft.
H =	2.0 Ft.
S =	0.0068 Ft./Ft.
t1 =	17.96 Minutes
(Min. 5 minutes)	
Shallow Concentrated Flow	
L =	240 Ft.
H =	2.0 Ft.
S =	0.0082 Ft./Ft.
v =	2.00 Ft./sec.
t2 =	2.00 Minutes
(From HERPICC Figure 3.4.5)	
tc =	19.96 Minutes
I(10) =	In./Hr.
I(25) =	4.574 In./Hr.
I(50) =	In./Hr.
I(100) =	3.660 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.52 CFS
Q(50) =	0.00 CFS
Q(100) =	3.13 CFS

DEVELOPED DRAINAGE BASIN CALCULATIONS									
Basin No.:		36		Total Area = 30,677 S.F.					
				0.70 Acres					
Surface									
							C	N	
Structures	2.5	@	3000	=	7,500 S.F.	=	0.17 Ac.	0.92	0.02
Pavement				=	5,948 S.F.	=	0.14 Ac.	0.92	0.02
Drives	5	@	700	=	3,500 S.F.	=	0.08 Ac.	0.92	0.02
Patios	0	@	100	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Sidewalks				=	0 S.F.	=	0.00 Ac.	0.92	0.02
Lawn (0-2%)			0 S.F.	=	0.00 Ac.	=	0.15	0.40	
Lawn (2-5%)			13,729 S.F.	=	0.32 Ac.	=	0.25	0.40	
Lawn (5-10%)			0 S.F.	=	0.00 Ac.	=	0.40	0.40	
Lawn (>10%)			0 S.F.	=	0.00 Ac.	=	0.55	0.40	
Water			0 S.F.	=	0.00 Ac.	=	1.00	0.00	
Misc.			0 S.F.	=	0.00 Ac.	=	0.92	0.02	

Weighted c =	0.620
Weighted N =	0.190
Sheet Flow	
L =	300 Ft.
H =	5.8 Ft.
S =	0.0193 Ft./Ft.
t1 =	13.73 Minutes
(Min. 5 minutes)	
Shallow Concentrated Flow	
L =	50 Ft.
H =	1.0 Ft.
S =	0.0200 Ft./Ft.
v =	2.90 Ft./sec.
t2 =	0.29 Minutes
(From HERPICC Figure 3.4.5)	
tc =	14.02 Minutes
I(10) =	In./Hr.
I(25) =	5.208 In./Hr.
I(50) =	In./Hr.
I(100) =	6.377 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.27 CFS
Q(50) =	0.00 CFS
Q(100) =	2.79 CFS

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: 37

Total Area = 194,073 S.F.
4.46 Acres

Surface						C	N
Structures	7	@	3000	=	21,000 S.F.	0.48 Ac.	0.92
Pavement				=	0 S.F.	0.00 Ac.	0.92
Drives	0	@	700	=	0 S.F.	0.00 Ac.	0.92
Patios	14	@	100	=	1,400 S.F.	0.03 Ac.	0.92
Sidewalks				=	0 S.F.	0.00 Ac.	0.92
Lawn (0-2%)			0	=	0 S.F.	0.00 Ac.	0.15
Lawn (2-5%)			128,474	=	128,474 S.F.	2.95 Ac.	0.25
Lawn (5-10%)			20,247	=	20,247 S.F.	0.46 Ac.	0.40
Lawn (>10%)			22,952	=	22,952 S.F.	0.53 Ac.	0.55
Water			0	=	0 S.F.	0.00 Ac.	1.00
Misc.			0	=	0 S.F.	0.00 Ac.	0.92

Weighted c =	0.378
Weighted N =	0.356
Sheet Flow	
L =	79 Ft.
H =	2.2 Ft.
S =	0.0277 Ft./Ft.
t1 =	9.09 Minutes
Open Channel Flow	
L =	213 Ft.
H =	4.0 Ft.
S =	0.0188 Ft./Ft.
v =	3.78 Ft./sec.
t2 =	0.94 Minutes
tc =	10.03 Minutes
I(10) =	In./Hr.
I(25) =	5.820 In./Hr.
I(50) =	In./Hr.
I(100) =	7.120 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	9.98 CFS
Q(50) =	0.00 CFS
Q(100) =	12.01 CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: 38

Total Area = 53,653 S.F.
1.23 Acres

Surface						C	N
Structures	6.25	@	3000	=	18,750 S.F.	0.43 Ac.	0.92
Pavement				=	0 S.F.	0.00 Ac.	0.92
Drives	0	@	700	=	0 S.F.	0.00 Ac.	0.92
Patios	6	@	100	=	600 S.F.	0.01 Ac.	0.92
Sidewalks				=	0 S.F.	0.00 Ac.	0.92
Lawn (0-2%)			0	=	0 S.F.	0.00 Ac.	0.15
Lawn (2-5%)			34,303	=	34,303 S.F.	0.79 Ac.	0.25
Lawn (5-10%)			0	=	0 S.F.	0.00 Ac.	0.40
Lawn (>10%)			0	=	0 S.F.	0.00 Ac.	0.40
Water			0	=	0 S.F.	0.00 Ac.	0.55
Misc.			0	=	0 S.F.	0.00 Ac.	0.92

Weighted c =	0.492
Weighted N =	0.263
Sheet Flow	
L =	100 Ft.
H =	1.3 Ft.
S =	0.0130 Ft./Ft.
t1 =	10.52 Minutes
Open Channel Flow	
L =	475 Ft.
H =	5.9 Ft.
S =	0.0124 Ft./Ft.
v =	3.20 Ft./sec.
t2 =	3.07 Minutes
tc =	13.59 Minutes
I(10) =	In./Hr.
I(25) =	5.285 In./Hr.
I(50) =	In./Hr.
I(100) =	6.457 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	3.20 CFS
Q(50) =	0.00 CFS
Q(100) =	3.91 CFS

(Min. 5 minutes)

REVISION

DEVELOPED DRAINAGE BASIN CALCULATIONS									
Basin No.:		39		Total Area = 38,571 S.F.					
				0.89 Acres					
Surface									
								C	N
Structures	3.25	@	3000	=	9,750 S.F.	=	0.22 Ac.	0.92	0.02
Pavement				=	6,980 S.F.	=	0.16 Ac.	0.92	0.02
Drives	6	@	700	=	4,200 S.F.	=	0.10 Ac.	0.92	0.02
Patios	0	@	100	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Sidewalks				=	0 S.F.	=	0.00 Ac.	0.92	0.02
Lawn (0-2%)			0 S.F.	=		=	0.00 Ac.	0.15	0.40
Lawn (2-5%)			17,641 S.F.	=		=	0.40 Ac.	0.25	0.40
Lawn (5-10%)			0 S.F.	=		=	0.00 Ac.	0.40	0.40
Lawn (>10%)			0 S.F.	=		=	0.00 Ac.	0.55	0.40
Water			0 S.F.	=		=	0.00 Ac.	1.00	0.00
Misc.			0 S.F.	=		=	0.00 Ac.	0.92	0.02

Weighted c =	0.614
Weighted N =	0.194
Sheet Flow	
L =	300 Ft.
H =	4.2 Ft.
S =	0.0140 Ft./Ft.
t1 =	14.94 Minutes
(Min. 5 minutes)	
Shallow Concentrated Flow	
L =	168 Ft.
H =	5.0 Ft.
S =	0.0297 Ft./Ft.
v =	3.50 Ft./sec.
t2 =	0.80 Minutes
(From HERPICC Figure 3.4.5)	
tc =	15.74 Minutes
I(10) =	In./Hr.
I(25) =	4.964 In./Hr.
I(50) =	In./Hr.
I(100) =	6.115 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.70 CFS
Q(50) =	0.00 CFS
Q(100) =	3.32 CFS

DEVELOPED DRAINAGE BASIN CALCULATIONS									
Basin No.:		40		Total Area = 29,858 S.F.					
				0.69 Acres					
Surface									
								C	N
Structures	2	@	3000	=	6,000 S.F.	=	0.14 Ac.	0.92	0.02
Pavement				=	6,942 S.F.	=	0.16 Ac.	0.92	0.02
Drives	4	@	700	=	2,800 S.F.	=	0.06 Ac.	0.92	0.02
Patios	0	@	100	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Sidewalks				=	0 S.F.	=	0.00 Ac.	0.92	0.02
Lawn (0-2%)			0 S.F.	=		=	0.00 Ac.	0.15	0.40
Lawn (2-5%)			14,116 S.F.	=		=	0.32 Ac.	0.25	0.40
Lawn (5-10%)			0 S.F.	=		=	0.00 Ac.	0.40	0.40
Lawn (>10%)			0 S.F.	=		=	0.00 Ac.	0.55	0.40
Water			0 S.F.	=		=	0.00 Ac.	1.00	0.00
Misc.			0 S.F.	=		=	0.00 Ac.	0.92	0.02

Weighted c =	0.603
Weighted N =	0.200
Sheet Flow	
L =	300 Ft.
H =	4.3 Ft.
S =	0.0143 Ft./Ft.
t1 =	15.07 Minutes
(Min. 5 minutes)	
Shallow Concentrated Flow	
L =	109 Ft.
H =	3.3 Ft.
S =	0.0302 Ft./Ft.
v =	3.50 Ft./sec.
t2 =	0.52 Minutes
(From HERPICC Figure 3.4.5)	
tc =	15.59 Minutes
I(10) =	In./Hr.
I(25) =	4.979 In./Hr.
I(50) =	In./Hr.
I(100) =	6.132 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.06 CFS
Q(50) =	0.00 CFS
Q(100) =	2.54 CFS

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	41		Total Area =	38,064 S.F.
				0.87 Acres
Surface				
			C	N
Structures	3	@ 3000 =	9,000 S.F. =	0.21 Ac. 0.92 0.02
Pavement		=	6,920 S.F. =	0.16 Ac. 0.92 0.02
Drives	6	@ 700 =	4,200 S.F. =	0.10 Ac. 0.92 0.02
Patios	0	@ 100 =	0 S.F. =	0.00 Ac. 0.92 0.02
Sidewalks		=	0 S.F. =	0.00 Ac. 0.92 0.02
Lawn (0-2%)		0 S.F. =		0.00 Ac. 0.15 0.40
Lawn (2-5%)		17,944 S.F. =		0.41 Ac. 0.25 0.40
Lawn (5-10%)		0 S.F. =		0.00 Ac. 0.40 0.40
Lawn (>10%)		0 S.F. =		0.00 Ac. 0.55 0.40
Water		0 S.F. =		0.00 Ac. 1.00 0.00
Misc.		0 S.F. =		0.00 Ac. 0.92 0.02

Weighted c =	0.604
Weighted N =	0.199
Sheet Flow	
L =	285 Ft.
H =	5.3 Ft.
S =	0.0186 Ft./Ft.
t1 =	13.82 Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	0.00 Ft./sec.
t2 =	0.00 Minutes
tc =	13.82 Minutes
I(10) =	In./Hr.
I(25) =	5.248 In./Hr.
I(50) =	In./Hr.
I(100) =	6.413 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.77 CFS
Q(50) =	0.00 CFS
Q(100) =	3.39 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	42		Total Area =	34,244 S.F.
				0.79 Acres
Surface				
			C	N
Structures	3	@ 3000 =	9,000 S.F. =	0.21 Ac. 0.92 0.02
Pavement		=	6,809 S.F. =	0.16 Ac. 0.92 0.02
Drives	6	@ 700 =	4,200 S.F. =	0.10 Ac. 0.92 0.02
Patios	0	@ 100 =	0 S.F. =	0.00 Ac. 0.92 0.02
Sidewalks		=	0 S.F. =	0.00 Ac. 0.92 0.02
Lawn (0-2%)		0 S.F. =		0.00 Ac. 0.15 0.40
Lawn (2-5%)		14,235 S.F. =		0.33 Ac. 0.25 0.40
Lawn (5-10%)		0 S.F. =		0.00 Ac. 0.40 0.40
Lawn (>10%)		0 S.F. =		0.00 Ac. 0.55 0.40
Water		0 S.F. =		0.00 Ac. 1.00 0.00
Misc.		0 S.F. =		0.00 Ac. 0.92 0.02

Weighted c =	0.641
Weighted N =	0.178
Sheet Flow	
L =	272 Ft.
H =	7.1 Ft.
S =	0.0261 Ft./Ft.
t1 =	11.86 Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	0.00 Ft./sec.
t2 =	0.00 Minutes
tc =	11.86 Minutes
I(10) =	In./Hr.
I(25) =	5.592 In./Hr.
I(50) =	In./Hr.
I(100) =	6.778 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.82 CFS
Q(50) =	0.00 CFS
Q(100) =	3.42 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	43		Total Area =	56,276 S.F.	
				1.29 Acres	
Surface					
				C	N
Structures	3	@	3000 =	9,000 S.F. =	0.21 Ac. 0.92 0.02
Pavement			=	0 S.F. =	0.00 Ac. 0.92 0.02
Drives	0	@	700 =	0 S.F. =	0.00 Ac. 0.92 0.02
Patios	6	@	100 =	600 S.F. =	0.01 Ac. 0.92 0.02
Sidewalks			=	0 S.F. =	0.00 Ac. 0.92 0.02
Lawn (0-2%)			0 S.F. =	0.00 Ac.	0.15 0.40
Lawn (2-5%)			46,576 S.F. =	1.07 Ac.	0.25 0.40
Lawn (5-10%)			0 S.F. =	0.00 Ac.	0.40 0.40
Lawn (>10%)			0 S.F. =	0.00 Ac.	0.55 0.40
Water			0 S.F. =	0.00 Ac.	1.00 0.00
Misc.			0 S.F. =	0.00 Ac.	0.92 0.02

Weighted c =	0.364
Weighted N =	0.335
Sheet Flow	
L =	1.38 Ft.
H =	1.5 Ft.
S =	0.0109 Ft./Ft.
t1 =	14.22 Minutes
Open Channel Flow	
L =	325 Ft.
H =	3.3 Ft.
S =	0.0102 Ft./Ft.
v =	2.79 Ft./sec.
t2 =	1.94 Minutes
tc =	16.17 Minutes
I(10) =	In./Hr.
I(25) =	4.925 In./Hr.
I(50) =	In./Hr.
I(100) =	6.071 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.32 CFS
Q(50) =	0.00 CFS
Q(100) =	2.86 CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	44		Total Area =	40,709 S.F.	
				0.93 Acres	
Surface					
				C	N
Structures	3	@	3000 =	9,000 S.F. =	0.21 Ac. 0.92 0.02
Pavement			=	8,483 S.F. =	0.19 Ac. 0.92 0.02
Drives	6	@	700 =	4,200 S.F. =	0.10 Ac. 0.92 0.02
Patios	0	@	100 =	0 S.F. =	0.00 Ac. 0.92 0.02
Sidewalks			=	0 S.F. =	0.00 Ac. 0.92 0.02
Lawn (0-2%)			0 S.F. =	0.00 Ac.	0.15 0.40
Lawn (2-5%)			19,026 S.F. =	0.44 Ac.	0.25 0.40
Lawn (5-10%)			0 S.F. =	0.00 Ac.	0.40 0.40
Lawn (>10%)			0 S.F. =	0.00 Ac.	0.55 0.40
Water			0 S.F. =	0.00 Ac.	1.00 0.00
Misc.			0 S.F. =	0.00 Ac.	0.92 0.02

Weighted c =	0.607
Weighted N =	0.198
Sheet Flow	
L =	300 Ft.
H =	6.3 Ft.
S =	0.0210 Ft./Ft.
t1 =	13.72 Minutes
Shallow Concentrated Flow	
L =	32 Ft.
H =	0.2 Ft.
S =	0.0069 Ft./Ft.
v =	1.70 Ft./sec.
t2 =	0.31 Minutes
tc =	14.03 Minutes
I(10) =	In./Hr.
I(25) =	5.207 In./Hr.
I(50) =	In./Hr.
I(100) =	6.375 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.95 CFS
Q(50) =	0.00 CFS
Q(100) =	3.62 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	45		Total Area =	44,451 S.F.			
				1.02 Acres		C	N
Surface							
Structures	3.25	@	3000	=	9,750 S.F. =	0.22 Ac.	0.92
Pavement				=	8,593 S.F. =	0.20 Ac.	0.92
Drives	6	@	700	=	4,200 S.F. =	0.10 Ac.	0.92
Patios	0	@	100	=	0 S.F. =	0.00 Ac.	0.92
Sidewalks				=	0 S.F. =	0.00 Ac.	0.92
Lawn (0-2%)				=	0 S.F. =	0.00 Ac.	0.15
Lawn (2-5%)				=	21,908 S.F. =	0.50 Ac.	0.25
Lawn (5-10%)				=	0 S.F. =	0.00 Ac.	0.40
Lawn (>10%)				=	0 S.F. =	0.00 Ac.	0.55
Water				=	0 S.F. =	0.00 Ac.	1.00
Misc.				=	0 S.F. =	0.00 Ac.	0.92

Weighted c =	0.590
Weighted N =	0.207
Sheet Flow	
L =	300 Ft.
H =	3.3 Ft.
S =	0.0110 Ft./Ft.
t1 =	16.31 Minutes
(Min. 5 minutes)	
Shallow Concentrated Flow	
L =	102 Ft.
H =	0.7 Ft.
S =	0.0071 Ft./Ft.
v =	1.70 Ft./sec.
t2 =	1.00 Minutes
tc =	17.3 Minutes
I(10) =	In./Hr.
I(25) =	4.820 In./Hr.
I(50) =	In./Hr.
I(100) =	5.950 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.90 CFS
Q(50) =	0.00 CFS
Q(100) =	3.58 CFS

(Min. 5 minutes)
(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	46		Total Area =	182,017 S.F.			
				4.18 Acres		C	N
Surface							
Structures	7	@	3000	=	21,000 S.F. =	0.48 Ac.	0.92
Pavement				=	0 S.F. =	0.00 Ac.	0.92
Drives	0	@	700	=	0 S.F. =	0.00 Ac.	0.92
Patios	14	@	100	=	1,400 S.F. =	0.03 Ac.	0.92
Sidewalks				=	0 S.F. =	0.00 Ac.	0.92
Lawn (0-2%)				=	0 S.F. =	0.00 Ac.	0.15
Lawn (2-5%)				=	70,197 S.F. =	1.61 Ac.	0.25
Lawn (5-10%)				=	26,467 S.F. =	0.61 Ac.	0.40
Lawn (>10%)				=	13,940 S.F. =	0.32 Ac.	0.55
Water				=	49,013 S.F. =	1.13 Ac.	1.00
Misc.				=	0 S.F. =	0.00 Ac.	0.92

Weighted c =	0.579
Weighted N =	0.246
Sheet Flow	
L =	95 Ft.
H =	2.1 Ft.
S =	0.0222 Ft./Ft.
t1 =	8.75 Minutes
(Min. 5 minutes)	
Open Channel Flow	
L =	350 Ft.
H =	3.3 Ft.
S =	0.0094 Ft./Ft.
v =	2.68 Ft./sec.
t2 =	2.17 Minutes
tc =	10.92729 Minutes
I(10) =	In./Hr.
I(25) =	5.760 In./Hr.
I(50) =	In./Hr.
I(100) =	6.953 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	13.94 CFS
Q(50) =	0.00 CFS
Q(100) =	16.83 CFS

REVISED

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	47		Total Area =	33,005 S.F.	
				0.76 Acres	
Surface				C	N
Structures	3	@	3000 =	9,000 S.F. =	0.21 Ac. 0.92 0.02
Pavement			=	5,960 S.F. =	0.14 Ac. 0.92 0.02
Drives	6	@	700 =	4,200 S.F. =	0.10 Ac. 0.92 0.02
Patios	0	@	100 =	0 S.F. =	0.00 Ac. 0.92 0.02
Sidewalks			=	0 S.F. =	0.00 Ac. 0.92 0.02
Lawn (0-2%)			0 S.F. =	0.00 Ac.	0.15 0.40
Lawn (2-5%)			13,845 S.F. =	0.32 Ac.	0.25 0.40
Lawn (5-10%)			0 S.F. =	0.00 Ac.	0.40 0.40
Lawn (>10%)			0 S.F. =	0.00 Ac.	0.55 0.40
Water			0 S.F. =	0.00 Ac.	1.00 0.00
Misc.			0 S.F. =	0.00 Ac.	0.92 0.02

Weighted c =	0.639
Weighted N =	0.179
Sheet Flow	
L =	238 Ft.
H =	3.2 Ft.
S =	0.0135 Ft./Ft.
t1 =	13.04 Minutes
Shallow Concentrated Flow	
L =	6 Ft.
H =	6.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	0.00 Ft./sec.
t2 =	0.00 Minutes
tc =	13.04 Minutes
I(10) =	In./Hr.
I(25) =	5.382 In./Hr.
I(50) =	In./Hr.
I(100) =	6.559 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.61 CFS
Q(50) =	0.00 CFS
Q(100) =	3.18 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	48		Total Area =	100,757 S.F.	
				2.31 Acres	
Surface				C	N
Structures	3.25	@	3000 =	9,750 S.F. =	0.22 Ac. 0.92 0.02
Pavement			=	3,906 S.F. =	0.09 Ac. 0.92 0.02
Drives	0	@	700 =	0 S.F. =	0.00 Ac. 0.92 0.02
Patios	7	@	100 =	700 S.F. =	0.02 Ac. 0.92 0.02
Sidewalks			=	0 S.F. =	0.00 Ac. 0.92 0.02
Lawn (0-2%)			0 S.F. =	0.00 Ac.	0.15 0.40
Lawn (2-5%)			86,401 S.F. =	1.98 Ac.	0.25 0.40
Lawn (5-10%)			15,855 S.F. =	0.36 Ac.	0.40 0.40
Lawn (>10%)			0 S.F. =	0.00 Ac.	0.55 0.40
Water			0 S.F. =	0.00 Ac.	1.00 0.00
Misc.			0 S.F. =	0.00 Ac.	0.92 0.02

Weighted c =	0.408
Weighted N =	0.409
Sheet Flow	
L =	98 Ft.
H =	1.0 Ft.
S =	0.0102 Ft./Ft.
t1 =	13.48 Minutes
Open Channel Flow	
L =	729 Ft.
H =	6.9 Ft.
S =	0.0095 Ft./Ft.
v =	2.69 Ft./sec.
t2 =	4.52 Minutes
tc =	18.00 Minutes
I(10) =	In./Hr.
I(25) =	4.756 In./Hr.
I(50) =	In./Hr.
I(100) =	5.877 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	4.49 CFS
Q(50) =	0.00 CFS
Q(100) =	5.55 CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: 49 Total Area = 34,068 S.F.
0.78 Acres

Surface						C	N		
Structures	1	@	3000	=	3,000 S.F.	=	0.07 Ac.	0.92	0.02
Pavement				=	0 S.F.	=	0.00 Ac.	0.92	0.02
Drives	0	@	700	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Patios	2	@	100	=	200 S.F.	=	0.00 Ac.	0.92	0.02
Sidewalks				=	0 S.F.	=	0.00 Ac.	0.92	0.02
Lawn (0-2%)				=	0 S.F.	=	0.00 Ac.	0.15	0.40
Lawn (2-5%)				=	14,634 S.F.	=	0.34 Ac.	0.25	0.40
Lawn (5-10%)				=	3,768 S.F.	=	0.09 Ac.	0.40	0.40
Lawn (>10%)				=	12,466 S.F.	=	0.29 Ac.	0.55	0.40
Water				=	0 S.F.	=	0.00 Ac.	1.00	0.00
Misc.				=	0 S.F.	=	0.00 Ac.	0.92	0.02

Weighted c =	0.439
Weighted N =	0.364
Sheet Flow	
L =	180 Ft.
H =	3.0 Ft.
S =	0.0133 Ft./Ft.
t1 =	14.70 Minutes
	(Min. 5 minutes)
Shallow Concentrated Flow	
L =	0 Ft.
H =	0 Ft.
S =	#DIV/0! Ft./Ft.
v =	0.00 Ft./SEC
t2 =	0.00 Minutes
	(From HERPICC Figure 3.4.5)
tc =	14.70 Minutes
I(10) =	In./Hr.
I(25) =	5.087 In./Hr.
I(50) =	In./Hr.
I(100) =	6.251 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	1.75 CFS
Q(50) =	0.00 CFS
Q(100) =	2.15 CFS

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: 50A Total Area = 58,102 S.F.
1.33 Acres

Surface						C	N		
Structures	3	@	3000	=	9,000 S.F.	=	0.21 Ac.	0.92	0.02
Pavement				=	4,707 S.F.	=	0.11 Ac.	0.92	0.02
Drives	3	@	700	=	2,100 S.F.	=	0.05 Ac.	0.92	0.02
Patios	3	@	100	=	300 S.F.	=	0.01 Ac.	0.92	0.02
Sidewalks				=	0 S.F.	=	0.00 Ac.	0.92	0.02
Lawn (0-2%)				=	0 S.F.	=	0.00 Ac.	0.15	0.40
Lawn (2-5%)				=	41,995 S.F.	=	0.96 Ac.	0.25	0.40
Lawn (5-10%)				=	0 S.F.	=	0.00 Ac.	0.40	0.40
Lawn (>10%)				=	0 S.F.	=	0.00 Ac.	0.55	0.40
Water				=	0 S.F.	=	0.00 Ac.	1.00	0.00
Misc.				=	0 S.F.	=	0.00 Ac.	0.92	0.02

Weighted c =	0.436
Weighted N =	0.295
Sheet Flow	
L =	300 Ft.
H =	3.5 Ft.
S =	0.0117 Ft./Ft.
t1 =	18.96 Minutes
	(Min. 5 minutes)
Shallow Concentrated Flow	
L =	182 Ft.
H =	4.7 Ft.
S =	0.0259 Ft./Ft.
v =	3.20 Ft./sec.
t2 =	0.95 Minutes
	(From HERPICC Figure 3.4.5)
tc =	19.91 Minutes
I(10) =	In./Hr.
I(25) =	4.579 In./Hr.
I(50) =	In./Hr.
I(100) =	5.675 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.66 CFS
Q(50) =	0.00 CFS
Q(100) =	3.30 CFS

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: 51

Total Area = 36,105 S.F.
0.83 Acres

Surface						C	N
Structures	2.5	@	3000	=	7,500 S.F.	=	0.17 Ac. 0.92 0.02
Pavement				=	6,544 S.F.	=	0.15 Ac. 0.92 0.02
Drives	5	@	700	=	3,500 S.F.	=	0.08 Ac. 0.92 0.02
Patios	0	@	100	=	0 S.F.	=	0.00 Ac. 0.92 0.02
Sidewalks				=	0 S.F.	=	0.00 Ac. 0.92 0.02
Lawn (0-2%)			0 S.F.	=		=	0.00 Ac. 0.15 0.40
Lawn (2-5%)			19,561 S.F.	=		=	0.43 Ac. 0.25 0.40
Lawn (5-10%)			0 S.F.	=		=	0.00 Ac. 0.40 0.40
Lawn (>10%)			0 S.F.	=		=	0.00 Ac. 0.55 0.40
Water			0 S.F.	=		=	0.00 Ac. 1.00 0.00
Misc.			0 S.F.	=		=	0.00 Ac. 0.92 0.02

Weighted c =	0.576
Weighted N =	0.215
Sheet Flow	
L =	25.4 Ft.
H =	2.8 Ft.
S =	0.0111 Ft./Ft.
t1 =	15.32 Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	2.50 Ft./sec.
t2 =	0.00 Minutes
tc =	15.32 Minutes
I(10) =	In./Hr.
I(25) =	5.004 In./Hr.
I(50) =	In./Hr.
I(100) =	6.160 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.39 CFS
Q(50) =	0.00 CFS
Q(100) =	2.94 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: 508

Total Area = 6,897 S.F.
0.16 Acres

Surface						C	N
Structures	0	@	3000	=	0 S.F.	=	0.00 Ac. 0.92 0.02
Pavement				=	1,715 S.F.	=	0.04 Ac. 0.92 0.02
Drives	0	@	700	=	0 S.F.	=	0.00 Ac. 0.92 0.02
Patios	0	@	100	=	0 S.F.	=	0.00 Ac. 0.92 0.02
Sidewalks				=	0 S.F.	=	0.00 Ac. 0.92 0.02
Lawn (0-2%)			0 S.F.	=		=	0.00 Ac. 0.15 0.40
Lawn (2-5%)			5,182 S.F.	=		=	0.12 Ac. 0.25 0.40
Lawn (5-10%)			0 S.F.	=		=	0.00 Ac. 0.40 0.40
Lawn (>10%)			0 S.F.	=		=	0.00 Ac. 0.55 0.40
Water			0 S.F.	=		=	0.00 Ac. 1.00 0.00
Misc.			0 S.F.	=		=	0.00 Ac. 0.92 0.02

Weighted c =	0.417
Weighted N =	0.306
Sheet Flow	
L =	188 Ft.
H =	9.2 Ft.
S =	0.0489 Ft./Ft.
t1 =	11.10 Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	3.20 Ft./sec.
t2 =	0.00 Minutes
tc =	11.10 Minutes
I(10) =	In./Hr.
I(25) =	5.729 In./Hr.
I(50) =	In./Hr.
I(100) =	6.921 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	0.38 CFS
Q(50) =	0.00 CFS
Q(100) =	0.46 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: 51A Total Area = 8,584 S.F.
0.20 Acres

Surface				C	N
Structures	0.5	@	3000 = 1,500 S.F. =	0.03 Ac.	0.92 0.02
Pavement			= 0 S.F. =	0.00 Ac.	0.92 0.02
Drives	0	@	700 = 0 S.F. =	0.00 Ac.	0.92 0.02
Patios	1	@	100 = 100 S.F. =	0.00 Ac.	0.92 0.02
Sidewalks			= 0 S.F. =	0.00 Ac.	0.92 0.02
Lawn (0-2%)			0 S.F. =	0.00 Ac.	0.15 0.40
Lawn (2-5%)			6,984 S.F. =	0.16 Ac.	0.25 0.40
Lawn (5-10%)			0 S.F. =	0.00 Ac.	0.40 0.40
Lawn (>10%)			0 S.F. =	0.00 Ac.	0.55 0.40
Water			0 S.F. =	0.00 Ac.	1.00 0.00
Misc.			0 S.F. =	0.00 Ac.	0.92 0.02

Weighted c =	0.375
Weighted N =	0.329
Sheet Flow	
L =	88 Ft.
H =	1.3 Ft.
S =	0.0148 Ft./Ft.
t1 =	10.66 Minutes
(Min. 5 minutes)	
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	2.50 Ft./sec.
t2 =	0.00 Minutes
(From HERPICC Figure 3.4.5)	
tc =	10.66 Minutes
I(10) =	In./Hr.
I(25) =	5.808 In./Hr.
I(50) =	In./Hr.
I(100) =	7.003 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	0.43 CFS
Q(50) =	0.00 CFS
Q(100) =	0.52 CFS

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: 51B Total Area = 39,281 S.F.
0.90 Acres

Surface				C	N
Structures	1.75	@	3000 = 5,250 S.F. =	0.12 Ac.	0.92 0.02
Pavement			= 2,784 S.F. =	0.06 Ac.	0.92 0.02
Drives	0	@	700 = 0 S.F. =	0.00 Ac.	0.92 0.02
Patios	3.5	@	100 = 350 S.F. =	0.01 Ac.	0.92 0.02
Sidewalks			= 0 S.F. =	0.00 Ac.	0.92 0.02
Lawn (0-2%)			0 S.F. =	0.00 Ac.	0.15 0.40
Lawn (2-5%)			35,897 S.F. =	0.71 Ac.	0.25 0.40
Lawn (5-10%)			0 S.F. =	0.00 Ac.	0.40 0.40
Lawn (>10%)			0 S.F. =	0.00 Ac.	0.55 0.40
Water			0 S.F. =	0.00 Ac.	1.00 0.00
Misc.			0 S.F. =	0.00 Ac.	0.92 0.02

Weighted c =	0.393
Weighted N =	0.319
Sheet Flow	
L =	94 Ft.
H =	3.8 Ft.
S =	0.0404 Ft./Ft.
t1 =	8.56 Minutes
(Min. 5 minutes)	
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	3.20 Ft./sec.
t2 =	0.00 Minutes
(From HERPICC Figure 3.4.5)	
tc =	8.56 Minutes
I(10) =	In./Hr.
I(25) =	6.294 In./Hr.
I(50) =	In./Hr.
I(100) =	7.513 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.23 CFS
Q(50) =	0.00 CFS
Q(100) =	2.66 CFS

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: 51 + 51A + 51B

Total Area = 83,970 S.F.
1.93 Acres

Surface						C	N
Structures	4.75	@	3000	=	14,250 S.F.	=	0.33 Ac.
Pavement				=	9,328 S.F.	=	0.21 Ac.
Drives	5	@	700	=	3,500 S.F.	=	0.08 Ac.
Patios	4.5	@	100	=	450 S.F.	=	0.01 Ac.
Sidewalks				=	0 S.F.	=	0.00 Ac.
Lawn (0-2%)			0 S.F.	=	0 S.F.	=	0.00 Ac.
Lawn (2-5%)			56,442 S.F.	=	56,442 S.F.	=	1.30 Ac.
Lawn (5-10%)			0 S.F.	=	0 S.F.	=	0.00 Ac.
Lawn (>10%)			0 S.F.	=	0 S.F.	=	0.00 Ac.
Water			0 S.F.	=	0 S.F.	=	0.00 Ac.
Misc.			0 S.F.	=	0 S.F.	=	0.00 Ac.

Weighted c =	0.470
Weighted N =	0.275
Sheet Flow	
L =	300 Ft.
H =	3.0 Ft.
S =	0.0100 Ft./Ft.
t1 =	19.05 Minutes
Shallow Concentrated Flow	
L =	194 Ft.
H =	2.6 Ft.
S =	0.0135 Ft./Ft.
v =	2.40 Ft./sec.
t2 =	1.35 Minutes
tc =	20.39 Minutes
I(10) =	In./Hr.
I(25) =	4.534 In./Hr.
I(50) =	In./Hr.
I(100) =	5.624 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	4.11 CFS
Q(50) =	0.00 CFS
Q(100) =	5.09 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: 52A

Total Area = 20,869 S.F.
0.48 Acres

Surface						C	N		
Structures	1.25	@	3000	=	3,750 S.F.	=	0.09 Ac.	0.92	0.02
Pavement				=	4,175 S.F.	=	0.10 Ac.	0.92	0.02
Drives	3	@	700	=	2,100 S.F.	=	0.05 Ac.	0.92	0.02
Patios	0	@	100	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Sidewalks				=	0 S.F.	=	0.00 Ac.	0.92	0.02
Lawn (0-2%)			0 S.F.	=		=	0.00 Ac.	0.15	0.40
Lawn (2-5%)			10,844 S.F.	=		=	0.25 Ac.	0.25	0.40
Lawn (5-10%)			0 S.F.	=		=	0.00 Ac.	0.40	0.40
Lawn (>10%)			0 S.F.	=		=	0.00 Ac.	0.55	0.40
Water			0 S.F.	=		=	0.00 Ac.	1.00	0.00
Misc.			0 S.F.	=		=	0.00 Ac.	0.92	0.02

Weighted c =	0.572
Weighted N =	0.217
Sheet Flow	
L =	390 Ft.
H =	7.8 Ft.
S =	0.0260 Ft./Ft.
t1 =	13.65 Minutes
Shallow Concentrated Flow	
L =	27 Ft.
H =	0.6 Ft.
S =	0.0234 Ft./Ft.
v =	3.10 Ft./sec.
t2 =	0.14 Minutes
tc =	13.79 Minutes
I(10) =	In./Hr.
I(25) =	5.249 In./Hr.
I(50) =	In./Hr.
I(100) =	6.420 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	1.44 CFS
Q(50) =	0.00 CFS
Q(100) =	1.76 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: 52B

Total Area = 37,576 S.F.
0.86 Acres

Surface						C	N		
Structures	1.5	@	3000	=	4,500 S.F.	=	0.10 Ac.	0.92	0.02
Pavement				=	1,708 S.F.	=	0.04 Ac.	0.92	0.02
Drives	0	@	700	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Patios	3	@	100	=	300 S.F.	=	0.01 Ac.	0.92	0.02
Sidewalks				=	0 S.F.	=	0.00 Ac.	0.92	0.02
Lawn (0-2%)			0 S.F.	=		=	0.00 Ac.	0.15	0.40
Lawn (2-5%)			0 S.F.	=		=	0.00 Ac.	0.25	0.40
Lawn (5-10%)			0 S.F.	=		=	0.00 Ac.	0.40	0.40
Lawn (>10%)			0 S.F.	=		=	0.00 Ac.	0.55	0.40
Water			0 S.F.	=		=	0.00 Ac.	1.00	0.00
Misc.			0 S.F.	=		=	0.00 Ac.	0.92	0.02

Weighted c =	0.159
Weighted N =	0.003
Sheet Flow	
L =	104 Ft.
H =	4.5 Ft.
S =	0.0434 Ft./Ft.
t1 =	5.00 Minutes
Open Channel Flow	
L =	296 Ft.
H =	5.8 Ft.
S =	0.0194 Ft./Ft.
v =	3.84 Ft./sec.
t2 =	1.28 Minutes
tc =	6.28 Minutes
I(10) =	In./Hr.
I(25) =	6.878 In./Hr.
I(50) =	In./Hr.
I(100) =	8.124 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	0.95 CFS
Q(50) =	0.00 CFS
Q(100) =	1.12 CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	53	Total Area =	0 S.F.
			0.00 Acres
Surface			
Structures	0 @ 3000 =	0 S.F. =	0.00 Ac. 0.92 0.02
Pavement	=	0 S.F. =	0.00 Ac. 0.92 0.02
Drives	0 @ 700 =	0 S.F. =	0.00 Ac. 0.92 0.02
Patios	0 @ 100 =	0 S.F. =	0.00 Ac. 0.92 0.02
Sidewalks	=	0 S.F. =	0.00 Ac. 0.92 0.02
Lawn (0-2%)	0 S.F. =	0.00 Ac.	0.15 0.40
Lawn (2-5%)	0 S.F. =	0.00 Ac.	0.25 0.40
Lawn (5-10%)	0 S.F. =	0.00 Ac.	0.40 0.40
Lawn (>10%)	0 S.F. =	0.00 Ac.	0.55 0.40
Water	0 S.F. =	0.00 Ac.	1.00 0.00
Misc.	0 S.F. =	0.00 Ac.	0.92 0.02

Weighted c =	#DIV/0!
Weighted N =	#DIV/0!
Sheet Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
t1 =	#DIV/0! Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	2.90 Ft./sec.
t2 =	0.00 Minutes
tc =	#DIV/0! Minutes
I(10) =	In./Hr.
I(25) =	#DIV/0! In./Hr.
I(50) =	In./Hr.
I(100) =	#DIV/0! In./Hr.
Q(10) =	#DIV/0! CFS
Q(25) =	#DIV/0! CFS
Q(50) =	#DIV/0! CFS
Q(100) =	#DIV/0! CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.:	54	Total Area =	0 S.F.
			0.00 Acres
Surface			
Structures	0 @ 3000 =	0 S.F. =	0.00 Ac. 0.92 0.02
Pavement	=	0 S.F. =	0.00 Ac. 0.92 0.02
Drives	0 @ 700 =	0 S.F. =	0.00 Ac. 0.92 0.02
Patios	0 @ 100 =	0 S.F. =	0.00 Ac. 0.92 0.02
Sidewalks	=	0 S.F. =	0.00 Ac. 0.92 0.02
Lawn (0-2%)	0 S.F. =	0.00 Ac.	0.15 0.40
Lawn (2-5%)	0 S.F. =	0.00 Ac.	0.25 0.40
Lawn (5-10%)	0 S.F. =	0.00 Ac.	0.40 0.40
Lawn (>10%)	0 S.F. =	0.00 Ac.	0.55 0.40
Water	0 S.F. =	0.00 Ac.	1.00 0.00
Misc.	0 S.F. =	0.00 Ac.	0.92 0.02

Weighted c =	#DIV/0!
Weighted N =	#DIV/0!
Sheet Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
t1 =	#DIV/0! Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	3.20 Ft./sec.
t2 =	0.00 Minutes
tc =	#DIV/0! Minutes
I(10) =	In./Hr.
I(25) =	#DIV/0! In./Hr.
I(50) =	In./Hr.
I(100) =	#DIV/0! In./Hr.
Q(10) =	#DIV/0! CFS
Q(25) =	#DIV/0! CFS
Q(50) =	#DIV/0! CFS
Q(100) =	#DIV/0! CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

UNDEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: UN-1

Total Area = 1,013,992 S.F.
23.28 Acres

Surface				C	N
Structures	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Drives (Asphalt)	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Drives (Gravel)	=	0 S.F.	=	0.00 Ac.	0.50 0.15
Pavement	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Patios	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Cult. Field (0-2%)	=	282,065 S.F.	=	6.48 Ac.	0.20 0.20
Cult. Field (2-5%)	=	640,559 S.F.	=	14.71 Ac.	0.35 0.20
Cult. Field (5-10%)	=	91,369 S.F.	=	2.10 Ac.	0.50 0.20
Cult. Field (>10%)	=	0 S.F.	=	0.00 Ac.	0.65 0.20
Water	=	S.F.	=	0.00 Ac.	1.00 0.00
Misc.	=	S.F.	=	0.00 Ac.	0.92 0.02

Weighted c =	0.322
Weighted N =	0.200
Sheet Flow	
L =	300 Ft.
H =	9.8 Ft.
S =	0.0327 Ft./Ft.
t1 =	12.44 Minutes
Shallow Concentrated Flow	
L =	300 Ft.
H =	7.7 Ft.
S =	0.0257 Ft./Ft.
v =	2.60 Ft./sec.
t2 =	1.92 Minutes
Open Channel Flow	
L =	866 Ft.
H =	9.8 Ft.
S =	0.0113 Ft./Ft.
v =	4.20 Ft./sec.
t3 =	3.44 Minutes
tc =	17.80
I(10) =	4.274 In./Hr.
I(25) =	0.000 In./Hr.
I(50) =	0.000 In./Hr.
I(100) =	0.000 In./Hr.
Q(10) =	32.02 CFS
Q(25) =	0.00 CFS
Q(50) =	0.00 CFS
Q(100) =	0.00 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

UNDEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: UN-2

Total Area = 89,571 S.F.
2.06 Acres

Surface				C	N	
Structures	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Drives (Asphalt)	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Drives (Gravel)	=	0 S.F.	=	0.00 Ac.	0.50	0.15
Pavement	=	2,853 S.F.	=	0.07 Ac.	0.92	0.02
Patios	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Cult. Field (0-2%)	=	9,192 S.F.	=	0.21 Ac.	0.20	0.20
Cult. Field (2-5%)	=	40,844 S.F.	=	0.94 Ac.	0.35	0.20
Cult. Field (5-10%)	=	36,682 S.F.	=	0.84 Ac.	0.50	0.20
Cult. Field (>10%)	=	0 S.F.	=	0.00 Ac.	0.65	0.20
Water	=	S.F.	=	0.00 Ac.	1.00	0.00
Misc.	=	S.F.	=	0.00 Ac.	0.92	0.02

Weighted c =	0.414
Weighted N =	0.194
Sheet Flow	
L =	300 Ft.
H =	11.0 Ft.
S =	0.0367 Ft./Ft.
t1 =	11.95 Minutes
Shallow Concentrated Flow	
L =	163 Ft.
H =	4.0 Ft.
S =	0.0246 Ft./Ft.
v =	2.50 Ft./sec.
t2 =	1.08 Minutes
Open Channel Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	1.15 Ft./sec.
t3 =	0.00 Minutes
tc =	13.03
I(10) =	4.856 In./Hr.
I(25) =	0.000 In./Hr.
I(50) =	0.000 In./Hr.
I(100) =	0.000 In./Hr.
Q(10) =	4.14 CFS
Q(25) =	0.00 CFS
Q(50) =	0.00 CFS
Q(100) =	0.00 CFS

(Min. 5 minutes)

(From HEPICCC Figure 3.4.5)

UNDEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: UN-3

Total Area = 188,645 S.F.
4.33 Acres

Surface				C	N
Structures	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Drives (Asphalt)	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Drives (Gravel)	=	0 S.F.	=	0.00 Ac.	0.50 0.15
Pavement	=	3,700 S.F.	=	0.08 Ac.	0.92 0.02
Patios	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Cult. Field (0-2%)	=	75,466 S.F.	=	1.76 Ac.	0.20 0.20
Cult. Field (2-5%)	=	58,036 S.F.	=	1.33 Ac.	0.35 0.20
Cult. Field (5-10%)	=	50,443 S.F.	=	1.16 Ac.	0.50 0.20
Cult. Field (>10%)	=	0 S.F.	=	0.00 Ac.	0.65 0.20
Water	=	S.F.	=	0.00 Ac.	1.00 0.00
Misc.	=	S.F.	=	0.00 Ac.	0.92 0.02

Weighted c =	0.340
Weighted N =	0.196
Sheet Flow	
L =	300 Ft.
H =	2.0 Ft.
S =	0.0067 Ft./Ft.
t1 =	17.88 Minutes
Shallow Concentrated Flow	
L =	510 Ft.
H =	11.0 Ft.
S =	0.0216 Ft./Ft.
v =	2.40 Ft./sec.
t2 =	3.54 Minutes
Open Channel Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	1.15 Ft./sec.
t3 =	0.00 Minutes
tc =	21.42
I(10) =	3.963 In./Hr.
I(25) =	0.000 In./Hr.
I(50) =	0.000 In./Hr.
I(100) =	0.000 In./Hr.
Q(10) =	5.84 CFS
Q(25) =	0.00 CFS
Q(50) =	0.00 CFS
Q(100) =	0.00 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

UNDEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: UN-4		Total Area = 561,076 S.F. 12.88 Acres			
Surface				C	N
Structures	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Drives (Asphalt)	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Drives (Gravel)	=	0 S.F.	=	0.00 Ac.	0.50 0.15
Pavement	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Patios	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Cult. Field (0-2%)	=	70,725 S.F.	=	1.62 Ac.	0.20 0.20
Cult. Field (2-5%)	=	490,301 S.F.	=	11.26 Ac.	0.35 0.20
Cult. Field (5-10%)	=	0 S.F.	=	0.00 Ac.	0.50 0.20
Cult. Field (>10%)	=	0 S.F.	=	0.00 Ac.	0.65 0.20
Water	=	S.F.	=	0.00 Ac.	1.00 0.00
Misc.	=	S.F.	=	0.00 Ac.	0.92 0.02

Weighted c =	0.331
Weighted N =	0.200
Sheet Flow	
L =	300 Ft.
H =	6.5 Ft.
S =	0.0217 Ft./Ft.
t1 =	13.69 Minutes
Shallow Concentrated Flow	
L =	491 Ft.
H =	7.5 Ft.
S =	0.0153 Ft./Ft.
v =	2.00 Ft./sec.
t2 =	4.09 Minutes
Open Channel Flow	
L =	0 Ft.
H =	0 Ft.
S =	#DIV/0! Ft./Ft.
v =	1.15 Ft./sec.
t3 =	0.00 Minutes
tc =	17.79
I(10) =	4.276 In./Hr.
I(25) =	0.000 In./Hr.
I(50) =	0.000 In./Hr.
I(100) =	0.000 In./Hr.
Q(10) =	18.23 CFS
Q(25) =	0.00 CFS
Q(50) =	0.00 CFS
Q(100) =	0.00 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

UNDEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: UN-5

Total Area = 186,771 S.F.
4.29 Acres

Surface				C	N
Structures	=	0 S.F.	=	0.00 Ac.	0.92
Drives (Asphalt)	=	0 S.F.	=	0.00 Ac.	0.92
Drives (Gravel)	=	0 S.F.	=	0.00 Ac.	0.50
Pavement	=	3,684 S.F.	=	0.08 Ac.	0.92
Patios	=	0 S.F.	=	0.00 Ac.	0.92
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92
Cult. Field (0-2%)	=	0 S.F.	=	0.00 Ac.	0.20
Cult. Field (2-5%)	=	183,087 S.F.	=	4.20 Ac.	0.35
Cult. Field (5-10%)	=	0 S.F.	=	0.00 Ac.	0.50
Cult. Field (>10%)	=	0 S.F.	=	0.00 Ac.	0.65
Water	=	S.F.	=	0.00 Ac.	1.00
Misc.	=	S.F.	=	0.00 Ac.	0.92

Weighted c =	0.361
Weighted N =	0.196
Sheet Flow	
L =	300 Ft.
H =	8.0 Ft.
S =	0.0267 Ft./Ft.
t1 =	12.94 Minutes
Shallow Concentrated Flow	
L =	109 Ft.
H =	1.2 Ft.
S =	0.0107 Ft./Ft.
v =	1.65 Ft./sec.
t2 =	1.10 Minutes
Open Channel Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	1.15 Ft./sec.
t3 =	0.00 Minutes
tc =	14.04
I(10) =	4.682 In./Hr.
I(25) =	0.000 In./Hr.
I(50) =	0.000 In./Hr.
I(100) =	0.000 In./Hr.
Q(10) =	7.25 CFS
Q(25) =	0.00 CFS
Q(50) =	0.00 CFS
Q(100) =	0.00 CFS

(Min. 5 minutes)

(From HRPICCC Figure 3.4.5)

UNDEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: UN-6

Total Area = 884,129 S.F.
20.30 Acres

Surface				C	N
Structures	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Drives (Asphalt)	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Drives (Gravel)	=	0 S.F.	=	0.00 Ac.	0.50 0.15
Pavement	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Patios	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Cult. Field (0-2%)		159,397 S.F.	=	3.64 Ac.	0.20 0.20
Cult. Field (2-5%)		438,840 S.F.	=	10.07 Ac.	0.35 0.20
Cult. Field (5-10%)		272,363 S.F.	=	6.25 Ac.	0.50 0.20
Cult. Field (>10%)		14,529 S.F.	=	0.33 Ac.	0.65 0.20
Water		S.F.	=	0.00 Ac.	1.00 0.00
Misc.		S.F.	=	0.00 Ac.	0.92 0.02

Weighted c =	0.374
Weighted N =	0.200
Sheet Flow	
L =	300 Ft.
H =	3.0 Ft.
S =	0.0100 Ft./Ft.
t1 =	16.40 Minutes
Shallow Concentrated Flow	
L =	300 Ft.
H =	6.4 Ft.
S =	0.0213 Ft./Ft.
v =	2.30 Ft./sec.
t2 =	2.17 Minutes
Open Channel Flow	
L =	697 Ft.
H =	11.6 Ft.
S =	0.0191 Ft./Ft.
v =	3.80 Ft./sec.
t3 =	2.66 Minutes
tc =	21.24
I(10) =	1.374 in./Hr.
I(25) =	0.000 in./Hr.
I(50) =	0.000 in./Hr.
I(100) =	0.000 in./Hr.
Q(10) =	30.23 CFS
Q(25) =	0.00 CFS
Q(50) =	0.00 CFS
Q(100) =	0.00 CFS

(Min. 5 minutes)

(From HRPICC Figure 3.4.5)

UNDEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: OS-1A

Total Area = 1,045,288 S.F.
24.00 Acres

Surface				C	N
Structures	=	18,546 S.F.	=	0.43 Ac.	0.92
Drives (Asphalt)	=	32,906 S.F.	=	0.76 Ac.	0.92
Drives (Gravel)	=	29,204 S.F.	=	0.67 Ac.	0.60
Pavement	=	8,534 S.F.	=	0.20 Ac.	0.92
Patios	=	0 S.F.	=	0.00 Ac.	0.92
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92
Lawn (2-5%)	=	457,404 S.F.	=	10.73 Ac.	0.25
Cult. Field (2-5%)	=	237,370 S.F.	=	5.45 Ac.	0.35
Cult. Field (5-10%)	=	154,360 S.F.	=	3.54 Ac.	0.50
Woods (>10%)	=	96,954 S.F.	=	2.23 Ac.	0.48
Water	=	S.F.	=	0.00 Ac.	1.00
Misc.	=	S.F.	=	0.00 Ac.	0.92

Weighted c =	0.379
Weighted N =	0.315
Sheet Flow	
L =	300 Ft.
H =	2.5 Ft.
S =	0.0250 Ft./Ft.
t1 =	16.37 Minutes
Shallow Concentrated Flow	
L =	221 Ft.
H =	5.0 Ft.
S =	0.0227 Ft./Ft.
v =	2.40 Ft./sec.
t2 =	1.53 Minutes
Open Channel Flow	
L =	506 Ft.
H =	5.0 Ft.
S =	0.0099 Ft./Ft.
v =	4.00 Ft./sec.
t3 =	2.11 Minutes
tc =	20.01
I(10) =	0.070 In./Hr.
I(25) =	4.570 In./Hr.
I(50) =	0.000 In./Hr.
I(100) =	5.665 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	41.58 CFS
Q(50) =	0.00 CFS
Q(100) =	51.54 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

UNDEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: OS-1B

Total Area = 6,853 S.F.
0.16 Acres

Surface				C	N
Structures	=	447 S.F.	=	0.01 Ac.	0.92
Drives (Asphalt)	=	0 S.F.	=	0.00 Ac.	0.92
Drives (Gravel)	=	0 S.F.	=	0.00 Ac.	0.60
Pavement	=	0 S.F.	=	0.00 Ac.	0.92
Patios	=	0 S.F.	=	0.00 Ac.	0.92
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92
Lawn (2-5%)	=	5,406 S.F.	=	0.15 Ac.	0.25
Cult. Field (2-5%)	=	0 S.F.	=	0.00 Ac.	0.35
Cult. Field (5-10%)	=	0 S.F.	=	0.00 Ac.	0.50
Woods (>10%)	=	0 S.F.	=	0.00 Ac.	0.48
Water	=	S.F.	=	0.00 Ac.	1.00
Misc.	=	S.F.	=	0.00 Ac.	0.92

Weighted c =	0.294
Weighted N =	0.375
Sheet Flow	
L =	121 Ft.
H =	1.4 Ft.
S =	0.0116 Ft./Ft.
t1 =	13.92 Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	2.40 Ft./sec.
t2 =	0.00 Minutes
Open Channel Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	4.00 Ft./sec.
t3 =	0.00 Minutes
tc =	13.92
I(10) =	0.000 In./Hr.
I(25) =	3.226 In./Hr.
I(50) =	0.000 In./Hr.
I(100) =	6.396 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	0.24 CFS
Q(50) =	0.00 CFS
Q(100) =	0.30 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: OS-2

Total Area = 101,207 S.F.
2.32 Acres

Surface				C	N
Structures	=	7,106 S.F.	=	0.16 Ac.	0.92
Pavement	=	0 S.F.	=	0.00 Ac.	0.92
Gravel	=	8,559 S.F.	=	0.20 Ac.	0.60
Concrete	=	456 S.F.	=	0.01 Ac.	0.92
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92
Lawn (5-10%)	=	65,922 S.F.	=	1.51 Ac.	0.40
Cult. Field (2-5%)	=	19,164 S.F.	=	0.44 Ac.	0.35
Cult. Field (5-10%)	=	0 S.F.	=	0.00 Ac.	0.50
Cult. Field (>10%)	=	0 S.F.	=	0.00 Ac.	0.65
Water	=	0 S.F.	=	0.00 Ac.	1.00
Misc.	=	0 S.F.	=	0.00 Ac.	0.92

Weighted c =	0.446
Weighted N =	0.313
Sheet Flow	
L =	300 Ft.
H =	14.2 Ft.
S =	0.0473 Ft./Ft.
t1 =	14.05 Minutes
Shallow Concentrated Flow	
L =	174 Ft.
H =	3.9 Ft.
S =	0.0219 Ft./Ft.
v =	2.40 Ft./sec.
t2 =	1.24 Minutes
tc =	15.29 Minutes
I(10) =	In./Hr.
I(25) =	5.006 In./Hr.
I(50) =	In./Hr.
I(100) =	6.163 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	5.19 CFS
Q(50) =	0.00 CFS
Q(100) =	6.39 CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: OS-3

Total Area = 55,281 S.F.
1.27 Acres

Surface				C	N
Structures	=	2,324 S.F.	=	0.05 Ac.	0.92
Pavement	=	0 S.F.	=	0.00 Ac.	0.92
Gravel	=	0 S.F.	=	0.00 Ac.	0.60
Patios	=	0 S.F.	=	0.00 Ac.	0.92
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92
Lawn (2-5%)	=	37,083 S.F.	=	0.85 Ac.	0.25
Cult. Field (2-5%)	=	10,345 S.F.	=	0.24 Ac.	0.35
Cult. Field (5-10%)	=	5,529 S.F.	=	0.13 Ac.	0.50
Cult. Field (>10%)	=	0 S.F.	=	0.00 Ac.	0.65
Water	=	0 S.F.	=	0.00 Ac.	1.00
Misc.	=	0 S.F.	=	0.00 Ac.	0.92

Weighted c =	0.322
Weighted N =	0.327
Sheet Flow	
L =	222 Ft.
H =	9.0 Ft.
S =	0.0406 Ft./Ft.
t1 =	12.91 Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	2.50 Ft./sec.
t2 =	0.00 Minutes
tc =	12.91 Minutes
I(10) =	In./Hr.
I(25) =	5.405 In./Hr.
I(50) =	In./Hr.
I(100) =	6.583 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	2.21 CFS
Q(50) =	0.00 CFS
Q(100) =	2.69 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: OS-4

Total Area = 98,530 S.F.
2.26 Acres

Surface				C	N
Structures	=	1,540 S.F.	=	0.04 Ac.	0.92
Pavement	=	0 S.F.	=	0.00 Ac.	0.92
Gravel	=	4,819 S.F.	=	0.11 Ac.	0.60
Patios	=	0 S.F.	=	0.00 Ac.	0.92
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92
Cult. Field (0-2%)	=	0 S.F.	=	0.00 Ac.	0.20
Lawn (5-10%)	=	6,586 S.F.	=	0.15 Ac.	0.40
Cult. Field (2-5%)	=	57,888 S.F.	=	1.33 Ac.	0.35
Cult. Field (5-10%)	=	77,697 S.F.	=	0.64 Ac.	0.50
Water	=	0 S.F.	=	0.00 Ac.	1.00
Misc.	=	0 S.F.	=	0.00 Ac.	0.92

Weighted c =	0.417
Weighted N =	0.208
Sheet Flow	
L =	300 Ft.
H =	15.2 Ft.
S =	0.0507 Ft./Ft.
t1 =	11.44 Minutes
Shallow Concentrated Flow	
L =	171 Ft.
H =	4.5 Ft.
S =	0.0263 Ft./Ft.
v =	2.65 Ft./sec.
t2 =	1.08 Minutes
tc =	12.52 Minutes
I(10) =	In./Hr.
I(25) =	5.476 In./Hr.
I(50) =	In./Hr.
I(100) =	6.567 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	5.16 CFS
Q(50) =	0.00 CFS
Q(100) =	6.27 CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: OS-5

Total Area = 27,090 S.F.
0.62 Acres

Surface				C	N
Structures	=	374 S.F.	=	0.01 Ac.	0.92
Pavement	=	0 S.F.	=	0.00 Ac.	0.92
Gravel	=	750 S.F.	=	0.02 Ac.	0.60
Patios	=	0 S.F.	=	0.00 Ac.	0.92
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92
Lawn (2-5%)	=	25,966 S.F.	=	0.60 Ac.	0.25
Cult. Field (2-5%)	=	0 S.F.	=	0.00 Ac.	0.35
Cult. Field (5-10%)	=	0 S.F.	=	0.00 Ac.	0.50
Cult. Field (>10%)	=	0 S.F.	=	0.00 Ac.	0.65
Water	=	0 S.F.	=	0.00 Ac.	1.00
Misc.	=	0 S.F.	=	0.00 Ac.	0.92

Weighted c =	0.269
Weighted N =	0.388
Sheet Flow	
L =	281 Ft.
H =	7.0 Ft.
S =	0.0249 Ft./Ft.
t1 =	17.51 Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	3.20 Ft./sec.
t2 =	0.00 Minutes
tc =	17.51 Minutes
I(10) =	In./Hr.
I(25) =	4.801 In./Hr.
I(50) =	In./Hr.
I(100) =	5.928 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	0.80 CFS
Q(50) =	0.00 CFS
Q(100) =	0.99 CFS

(Min. 5 minutes)

(From HRPICCC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: 05-6A

Total Area = 6,835 S.F.
0.16 Acres

Surface				C	N
Structures	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Pavement	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Drives	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Patios	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Lawn (0-2%)	=	6,835 S.F.	=	0.00 Ac.	0.92 0.02
Cult. Field (2-5%)	=	0 S.F.	=	0.16 Ac.	0.15 0.40
Cult. Field (5-10%)	=	0 S.F.	=	0.00 Ac.	0.35 0.20
Cult. Field (>10%)	=	0 S.F.	=	0.00 Ac.	0.50 0.20
Water	=	0 S.F.	=	0.00 Ac.	0.65 0.20
Misc.	=	0 S.F.	=	0.00 Ac.	1.00 0.00
				0.00 Ac.	0.92 0.02

Weighted c =	0.150
Weighted N =	0.400
Sheet Flow	
L =	136 Ft.
H =	1.0 Ft.
S =	0.0073 Ft./Ft.
t1 =	16.84 Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	2.90 Ft./sec.
t2 =	0.00 Minutes
tc =	16.84 Minutes
I(10) =	In./Hr.
I(25) =	4.863 In./Hr.
I(50) =	In./Hr.
I(100) =	5.999 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	0.11 CFS
Q(50) =	0.00 CFS
Q(100) =	0.14 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: 05-6B

Total Area = 28,692 S.F.
0.66 Acres

Surface				C	N
Structures	=	498 S.F.	=	0.01 Ac.	0.92 0.02
Pavement	=	1,220 S.F.	=	0.03 Ac.	0.92 0.02
Gravel	=	0 S.F.	=	0.00 Ac.	0.65 0.15
Patios	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92 0.02
Lawn (2-5%)	=	26,974 S.F.	=	0.00 Ac.	0.92 0.02
Cult. Field (2-5%)	=	0 S.F.	=	0.52 Ac.	0.24 0.40
Cult. Field (5-10%)	=	0 S.F.	=	0.00 Ac.	0.35 0.20
Cult. Field (>10%)	=	0 S.F.	=	0.00 Ac.	0.50 0.20
Water	=	0 S.F.	=	0.00 Ac.	0.65 0.20
Misc.	=	0 S.F.	=	0.00 Ac.	1.00 0.00
				0.00 Ac.	0.92 0.02

Weighted c =	0.281
Weighted N =	0.377
Sheet Flow	
L =	135 Ft.
H =	2.0 Ft.
S =	0.0148 Ft./Ft.
t1 =	13.84 Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	3.20 Ft./sec.
t2 =	0.00 Minutes
tc =	13.84 Minutes
I(10) =	In./Hr.
I(25) =	5.240 In./Hr.
I(50) =	In./Hr.
I(100) =	6.410 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	0.97 CFS
Q(50) =	0.00 CFS
Q(100) =	1.19 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: 05-7	Total Area = 85,255 S.F. 1.96 Acres				
Surface				C	N
Structures	=	7,577 S.F.	=	0.17 Ac.	0.92
Pavement	=	0 S.F.	=	0.00 Ac.	0.92
Gravel	=	6,168 S.F.	=	0.14 Ac.	0.60
Patios	=	0 S.F.	=	0.00 Ac.	0.92
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92
Lawn (2-5%)	=	21,510 S.F.	=	1.64 Ac.	0.24
Cult. Field (2-5%)	=	0 S.F.	=	0.00 Ac.	0.35
Cult. Field (5-10%)	=	0 S.F.	=	0.00 Ac.	0.50
Cult. Field (>10%)	=	0 S.F.	=	0.00 Ac.	0.65
Water	=	0 S.F.	=	0.00 Ac.	1.00
Misc.	=	0 S.F.	=	0.00 Ac.	0.92
					0.02

Weighted c =	0.326
Weighted N =	0.348
Sheet Flow	
L =	245 Ft.
H =	5.2 Ft.
S =	0.0212 Ft./Ft.
t1 =	16.22 Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	3.20 Ft./sec.
t2 =	0.00 Minutes
tc =	16.22 Minutes
I(10) =	In./Hr.
I(25) =	4.921 In./Hr.
I(50) =	In./Hr.
I(100) =	5.065 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	3.14 CFS
Q(50) =	0.00 CFS
Q(100) =	3.88 CFS

(Min. 5 minutes)

(From HRPICCC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: **OS-8A**

Total Area = **412,592 S.F.**
9.47 Acres

Surface				C	N	
Structures	=	3,692 S.F.	=	0.08 Ac.	0.92	0.02
Pavement	=	10,305 S.F.	=	0.24 Ac.	0.92	0.02
Gravel	=	9,235 S.F.	=	0.21 Ac.	0.60	0.15
Patios	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Lawn (2-5%)	=	111,308 S.F.	=	2.56 Ac.	0.25	0.40
Cult. Field (2-5%)	=	278,052 S.F.	=	6.38 Ac.	0.35	0.20
Cult. Field (5-10%)	=	0 S.F.	=	0.00 Ac.	0.50	0.20
Cult. Field (>10%)	=	0 S.F.	=	0.00 Ac.	0.65	0.20
Water	=	0 S.F.	=	0.00 Ac.	1.00	0.00
Misc.	=	0 S.F.	=	0.00 Ac.	0.92	0.02

Weighted c =	0.348
Weighted N =	0.247
Sheet Flow	
L =	300 Ft.
H =	11.7 Ft.
S =	0.0390 Ft./Ft.
t1 =	13.17 Minutes
Open Channel Flow	
L =	353 Ft.
H =	6.3 Ft.
S =	0.0179 Ft./Ft.
v =	3.60 Ft./sec.
t2 =	1.63 Minutes
tc =	14.80 Minutes
I(10) =	In./Hr.
I(25) =	5.059 In./Hr.
I(50) =	In./Hr.
I(100) =	6.231 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	16.71 CFS
Q(50) =	0.00 CFS
Q(100) =	20.54 CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: **OS-8B**

Total Area = **2,953 S.F.**
0.07 Acres

Surface				C	N	
Structures	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Pavement	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Gravel	=	0 S.F.	=	0.00 Ac.	0.60	0.15
Patios	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Lawn (2-5%)	=	0 S.F.	=	0.00 Ac.	0.24	0.40
Cult. Field (2-5%)	=	2,953 S.F.	=	0.07 Ac.	0.35	0.20
Cult. Field (5-10%)	=	0 S.F.	=	0.00 Ac.	0.50	0.20
Cult. Field (>10%)	=	0 S.F.	=	0.00 Ac.	0.65	0.20
Water	=	0 S.F.	=	0.00 Ac.	1.00	0.00
Misc.	=	0 S.F.	=	0.00 Ac.	0.92	0.02

Weighted c =	0.350
Weighted N =	0.200
Sheet Flow	
L =	102 Ft.
H =	4.0 Ft.
S =	0.0391 Ft./Ft.
t1 =	7.21 Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	3.20 Ft./sec.
t2 =	0.00 Minutes
tc =	7.21 Minutes
I(10) =	In./Hr.
I(25) =	6.640 In./Hr.
I(50) =	In./Hr.
I(100) =	7.875 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	0.16 CFS
Q(50) =	0.00 CFS
Q(100) =	0.19 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: 05-9A

Total Area = 15,142 S.F.
0.35 Acres

Surface				C	N
Structures	=	7,098 S.F.	=	0.16 Ac.	0.92
Pavement	=	5,814 S.F.	=	0.13 Ac.	0.92
Gravel	=	0 S.F.	=	0.00 Ac.	0.60
Patios	=	0 S.F.	=	0.00 Ac.	0.92
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92
Lawn (2-5%)	=	2,230 S.F.	=	0.05 Ac.	0.24
Cult. Field (2-5%)	=	0 S.F.	=	0.00 Ac.	0.35
Cult. Field (5-10%)	=	0 S.F.	=	0.00 Ac.	0.50
Cult. Field (>10%)	=	0 S.F.	=	0.00 Ac.	0.65
Water	=	0 S.F.	=	0.00 Ac.	1.00
Misc.	=	0 S.F.	=	0.00 Ac.	0.92

Weighted c =	0.820
Weighted N =	0.076
Sheet Flow	
L =	1.00 Ft.
H =	1.0 Ft.
S =	0.0100 Ft./Ft.
t1 =	6.25 Minutes
Open Channel Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	3.60 Ft./sec.
t2 =	0.00 Minutes
tc =	6.25 Minutes
I(10) =	In./Hr.
I(25) =	6.886 In./Hr.
I(50) =	In./Hr.
I(100) =	8.134 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	1.96 CFS
Q(50) =	0.00 CFS
Q(100) =	2.32 CFS

(Min. 5 minutes)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: 05-9B

Total Area = 20,464 S.F.
0.47 Acres

Surface				C	N
Structures	=	8,933 S.F.	=	0.21 Ac.	0.92
Pavement	=	3,596 S.F.	=	0.08 Ac.	0.92
Gravel	=	0 S.F.	=	0.00 Ac.	0.60
Patios	=	0 S.F.	=	0.00 Ac.	0.92
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92
Lawn (2-5%)	=	7,935 S.F.	=	0.18 Ac.	0.24
Cult. Field (2-5%)	=	0 S.F.	=	0.00 Ac.	0.35
Cult. Field (5-10%)	=	0 S.F.	=	0.00 Ac.	0.50
Cult. Field (>10%)	=	0 S.F.	=	0.00 Ac.	0.65
Water	=	0 S.F.	=	0.00 Ac.	1.00
Misc.	=	0 S.F.	=	0.00 Ac.	0.92

Weighted c =	0.656
Weighted N =	0.167
Sheet Flow	
L =	1.00 Ft.
H =	1.0 Ft.
S =	0.0100 Ft./Ft.
t1 =	9.04 Minutes
Shallow Concentrated Flow	
L =	0 Ft.
H =	0.0 Ft.
S =	#DIV/0! Ft./Ft.
v =	3.20 Ft./sec.
t2 =	0.00 Minutes
tc =	9.04 Minutes
I(10) =	In./Hr.
I(25) =	6.173 In./Hr.
I(50) =	In./Hr.
I(100) =	7.385 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	1.90 CFS
Q(50) =	0.00 CFS
Q(100) =	2.28 CFS

(Min. 5 minutes)

(From HERPICC Figure 3.4.5)

DEVELOPED DRAINAGE BASIN CALCULATIONS

Basin No.: 05-10

Total Area = 22,476 S.F.
0.52 Acres

Surface				C	N	
Structures	=	489 S.F.	=	0.01 Ac.	0.92	0.02
Pavement	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Gravel	=	2,153 S.F.	=	0.05 Ac.	0.60	0.15
Patios	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Sidewalks	=	0 S.F.	=	0.00 Ac.	0.92	0.02
Cult. Field (0-2%)	0 S.F.	=		0.00 Ac.	0.20	0.20
Lawn (5-10%)	19,834 S.F.	=		0.46 Ac.	0.40	0.40
Woods (2-5%)	0 S.F.	=		0.00 Ac.	0.24	0.60
Woods (>10%)	0 S.F.	=		0.00 Ac.	0.48	0.60
Water	0 S.F.	=		0.00 Ac.	1.00	0.00
Misc.	0 S.F.	=		0.00 Ac.	0.92	0.02

Weighted c =	0.430
Weighted N =	0.368
Sheet Flow	
L =	105 Ft.
H =	6.0 Ft.
S =	0.0571 Ft./Ft.
t1 =	8.89 Minutes
Open Channel Flow	
L =	421 Ft.
H =	14.5 Ft.
S =	0.0344 Ft./Ft.
v =	3.80 Ft./sec.
t2 =	1.85 Minutes
tc =	10.73 Minutes
I(10) =	In./Hr.
I(25) =	5.794 In./Hr.
I(50) =	In./Hr.
I(100) =	6.989 In./Hr.
Q(10) =	0.00 CFS
Q(25) =	1.29 CFS
Q(50) =	0.00 CFS
Q(100) =	1.55 CFS

(Min. 5 minutes)

Open Channel Flow Calculations

Swale #: 1

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0247

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.16	1.24	1.1
0.2	2.26	0.32	0.14	0.15	0.58	1.81	1.2
0.3	2.58	0.44	0.17	0.18	0.90	2.05	1.3
0.4	3.21	0.72	0.22	0.23	1.77	2.46	1.4
0.5	3.85	1.06	0.27	0.29	2.99	2.83	1.5
0.6	4.48	1.46	0.33	0.34	4.61	3.17	1.6
0.7	5.11	1.92	0.38	0.39	6.67	3.48	1.7
0.8	5.74	2.44	0.42	0.44	9.21	3.78	1.8
0.9	6.38	3.02	0.47	0.49	12.26	4.06	1.9
1.0	7.01	3.66	0.52	0.55	15.88	4.34	2.0

Open Channel Flow Calculations

Swale #: 1A

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0261

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.17	1.27	1.1
0.2	2.26	0.32	0.14	0.15	0.30	1.67	1.2
0.3	2.58	0.44	0.17	0.18	0.92	2.11	1.3
0.4	3.21	0.72	0.22	0.23	1.62	2.53	1.4
0.5	3.85	1.06	0.27	0.29	3.06	2.91	1.5
0.6	4.48	1.46	0.33	0.34	4.74	3.25	1.6
0.7	5.11	1.92	0.38	0.39	6.86	3.58	1.7
0.8	5.74	2.44	0.42	0.44	9.47	3.88	1.8
0.9	6.38	3.02	0.47	0.49	12.60	4.18	1.9
1.0	7.01	3.66	0.52	0.55	16.31	4.45	2.0

Open Channel Flow Calculations

Swale #: **1B**

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0308

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.18	1.38	1.1
0.2	2.26	0.32	0.14	0.15	0.65	2.03	1.2
0.3	2.58	0.44	0.17	0.18	1.00	2.29	1.3
0.4	3.21	0.72	0.22	0.23	1.97	2.75	1.4
0.5	3.85	1.06	0.27	0.29	3.34	3.16	1.5
0.6	4.48	1.46	0.33	0.34	5.15	3.53	1.6
0.7	5.11	1.92	0.38	0.39	7.45	3.89	1.7
0.8	5.74	2.44	0.42	0.44	10.28	4.22	1.8
0.9	6.38	3.02	0.47	0.49	13.69	4.54	1.9
1.0	7.01	3.66	0.52	0.55	17.71	4.84	2.0

Open Channel Flow Calculations

Swale #: 2

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0215

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.15	1.16	1.1
0.2	2.26	0.32	0.14	0.15	0.54	1.69	1.2
0.3	2.58	0.44	0.17	0.18	0.64	1.91	1.3
0.4	3.21	0.72	0.22	0.23	1.65	2.30	1.4
0.5	3.85	1.06	0.27	0.29	2.79	2.64	1.5
0.6	4.48	1.46	0.33	0.34	4.30	2.95	1.6
0.7	5.11	1.92	0.38	0.39	6.23	3.25	1.7
0.8	5.74	2.44	0.42	0.44	8.59	3.53	1.8
0.9	6.38	3.02	0.47	0.49	11.44	3.79	1.9
1.0	7.01	3.66	0.52	0.55	14.80	4.05	2.0

Open Channel Flow Calculations

Swale #: 3

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0118

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.11	0.86	1.1
0.2	2.26	0.32	0.14	0.15	0.40	1.25	1.2
0.3	2.58	0.44	0.17	0.18	0.62	1.42	1.3
0.4	3.21	0.72	0.22	0.23	1.22	1.70	1.4
0.5	3.85	1.06	0.27	0.29	2.07	1.96	1.5
0.6	4.48	1.46	0.33	0.34	3.19	2.19	1.6
0.7	5.11	1.92	0.38	0.39	4.61	2.41	1.7
0.8	5.74	2.44	0.42	0.44	6.37	2.61	1.8
0.9	6.38	3.02	0.47	0.49	8.47	2.81	1.9
1.0	7.01	3.66	0.52	0.55	10.96	3.00	2.0

Open Channel Flow Calculations

Swale #: 4

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0100

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.10	0.79	1.1
0.2	2.26	0.32	0.14	0.15	0.37	1.15	1.2
0.3	2.58	0.44	0.17	0.18	0.57	1.30	1.3
0.4	3.21	0.72	0.22	0.23	1.12	1.57	1.4
0.5	3.85	1.06	0.27	0.29	1.90	1.80	1.5
0.6	4.48	1.46	0.33	0.34	2.94	2.01	1.6
0.7	5.11	1.92	0.38	0.39	4.25	2.21	1.7
0.8	5.74	2.44	0.42	0.44	5.86	2.40	1.8
0.9	6.38	3.02	0.47	0.49	7.80	2.59	1.9
1.0	7.01	3.66	0.52	0.55	10.09	2.76	2.0

Open Channel Flow Calculations

Swale #: 5

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0087

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.10	0.73	1.1
0.2	2.26	0.32	0.14	0.15	0.34	1.08	1.2
0.3	2.58	0.44	0.17	0.18	0.53	1.22	1.3
0.4	3.21	0.72	0.22	0.23	1.05	1.46	1.4
0.5	3.85	1.06	0.27	0.29	1.78	1.68	1.5
0.6	4.48	1.46	0.33	0.34	2.74	1.88	1.6
0.7	5.11	1.92	0.38	0.39	3.96	2.07	1.7
0.8	5.74	2.44	0.42	0.44	5.47	2.24	1.8
0.9	6.38	3.02	0.47	0.49	7.28	2.41	1.9
1.0	7.01	3.66	0.52	0.55	9.41	2.57	2.0

Open Channel Flow Calculations

Swale #: 6

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0132

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.12	0.91	1.1
0.2	2.26	0.32	0.14	0.15	0.42	1.33	1.2
0.3	2.58	0.44	0.17	0.18	0.66	1.50	1.3
0.4	3.21	0.72	0.22	0.23	1.29	1.80	1.4
0.5	3.85	1.06	0.27	0.29	2.19	2.07	1.5
0.6	4.48	1.46	0.33	0.34	3.37	2.31	1.6
0.7	5.11	1.92	0.38	0.39	4.88	2.54	1.7
0.8	5.74	2.44	0.42	0.44	6.73	2.76	1.8
0.9	6.38	3.02	0.47	0.49	8.96	2.97	1.9
1.0	7.01	3.66	0.52	0.55	11.60	3.17	2.0

Open Channel Flow Calculations

Swale #: **6A**

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0154

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.13	0.98	1.1
0.2	2.26	0.32	0.14	0.15	0.46	1.43	1.2
0.3	2.58	0.44	0.17	0.18	0.71	1.62	1.3
0.4	3.21	0.72	0.22	0.23	1.40	1.94	1.4
0.5	3.85	1.06	0.27	0.29	2.36	2.23	1.5
0.6	4.48	1.46	0.33	0.34	3.64	2.50	1.6
0.7	5.11	1.92	0.38	0.39	5.27	2.75	1.7
0.8	5.74	2.44	0.42	0.44	7.27	2.98	1.8
0.9	6.38	3.02	0.47	0.49	9.68	3.21	1.9
1.0	7.01	3.66	0.52	0.55	12.52	3.42	2.0

Open Channel Flow Calculations

Swale #: 7

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0244

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.16	1.23	1.1
0.2	2.26	0.32	0.14	0.15	0.58	1.80	1.2
0.3	2.58	0.44	0.17	0.18	0.89	2.04	1.3
0.4	3.21	0.72	0.22	0.23	1.76	2.45	1.4
0.5	3.85	1.06	0.27	0.29	2.97	2.81	1.5
0.6	4.48	1.46	0.33	0.34	4.59	3.15	1.6
0.7	5.11	1.92	0.38	0.39	6.63	3.46	1.7
0.8	5.74	2.44	0.42	0.44	9.15	3.76	1.8
0.9	6.38	3.02	0.47	0.49	12.19	4.04	1.9
1.0	7.01	3.66	0.52	0.55	15.77	4.31	2.0

Open Channel Flow Calculations

Swale #: 8

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0230

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.16	1.20	1.1
0.2	2.26	0.32	0.14	0.15	0.58	1.75	1.2
0.3	2.58	0.44	0.17	0.18	0.87	1.98	1.3
0.4	3.21	0.72	0.22	0.23	1.70	2.38	1.4
0.5	3.85	1.06	0.27	0.29	2.89	2.73	1.5
0.6	4.48	1.46	0.33	0.34	4.45	3.03	1.6
0.7	5.11	1.92	0.38	0.39	6.44	3.36	1.7
0.8	5.74	2.44	0.42	0.44	8.89	3.65	1.8
0.9	6.38	3.02	0.47	0.49	11.83	3.92	1.9
1.0	7.01	3.66	0.52	0.55	15.31	4.18	2.0

Open Channel Flow Calculations

Swale #: 9

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0247

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.16	1.24	1.1
0.2	2.26	0.32	0.14	0.15	0.58	1.81	1.2
0.3	2.58	0.44	0.17	0.18	0.90	2.05	1.3
0.4	3.21	0.72	0.22	0.23	1.77	2.46	1.4
0.5	3.85	1.06	0.27	0.29	2.98	2.83	1.5
0.6	4.48	1.46	0.33	0.34	4.61	3.17	1.6
0.7	5.11	1.92	0.38	0.39	6.67	3.48	1.7
0.8	5.74	2.44	0.42	0.44	9.21	3.78	1.8
0.9	6.38	3.02	0.47	0.49	12.26	4.06	1.9
1.0	7.01	3.66	0.52	0.55	15.86	4.34	2.0

Open Channel Flow Calculations

Swale #: **10**

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.1326

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.37	2.87	1.1
0.2	2.26	0.32	0.14	0.15	1.35	4.21	1.2
0.3	2.58	0.44	0.17	0.18	2.08	4.75	1.3
0.4	3.21	0.72	0.22	0.23	4.08	5.71	1.4
0.5	3.85	1.06	0.27	0.29	6.93	6.55	1.5
0.6	4.48	1.46	0.33	0.34	10.69	7.33	1.6
0.7	5.11	1.92	0.38	0.39	15.46	8.06	1.7
0.8	5.74	2.44	0.42	0.44	21.34	8.76	1.8
0.9	6.38	3.02	0.47	0.49	28.41	9.41	1.9
1.0	7.01	3.66	0.52	0.55	36.75	10.05	2.0

Open Channel Flow Calculations

Swale #: 11

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0083

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.09	0.72	1.1
0.2	2.26	0.32	0.14	0.15	0.34	1.05	1.2
0.3	2.58	0.44	0.17	0.18	0.52	1.19	1.3
0.4	3.21	0.72	0.22	0.23	1.02	1.43	1.4
0.5	3.85	1.06	0.27	0.29	1.73	1.64	1.5
0.6	4.48	1.46	0.33	0.34	2.67	1.84	1.6
0.7	5.11	1.92	0.38	0.39	3.87	2.02	1.7
0.8	5.74	2.44	0.42	0.44	5.34	2.19	1.8
0.9	6.38	3.02	0.47	0.49	7.11	2.36	1.9
1.0	7.01	3.66	0.52	0.55	9.20	2.51	2.0

Open Channel Flow Calculations

Swale #: **12**

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0085

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.09	0.73	1.1
0.2	2.26	0.32	0.14	0.15	0.34	1.06	1.2
0.3	2.58	0.44	0.17	0.18	0.53	1.20	1.3
0.4	3.21	0.72	0.22	0.23	1.04	1.44	1.4
0.5	3.85	1.06	0.27	0.29	1.76	1.66	1.5
0.6	4.48	1.46	0.33	0.34	2.71	1.86	1.6
0.7	5.11	1.92	0.38	0.39	3.91	2.04	1.7
0.8	5.74	2.44	0.42	0.44	5.40	2.22	1.8
0.9	6.38	3.02	0.47	0.49	7.19	2.38	1.9
1.0	7.01	3.66	0.52	0.55	9.31	2.54	2.0

Open Channel Flow Calculations

Swale #: 13A

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0279

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.17	1.32	1.1
0.2	2.26	0.32	0.14	0.15	0.62	1.93	1.2
0.3	2.58	0.44	0.17	0.18	0.95	2.18	1.3
0.4	3.21	0.72	0.22	0.23	1.88	2.62	1.4
0.5	3.85	1.06	0.27	0.29	3.18	3.01	1.5
0.6	4.48	1.46	0.33	0.34	4.90	3.36	1.6
0.7	5.11	1.92	0.38	0.39	7.09	3.70	1.7
0.8	5.74	2.44	0.42	0.44	9.79	4.02	1.8
0.9	6.38	3.02	0.47	0.49	13.03	4.32	1.9
1.0	7.01	3.66	0.52	0.55	16.86	4.61	2.0

Open Channel Flow Calculations

Swale #: 13B

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0328

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.19	1.43	1.1
0.2	2.26	0.32	0.14	0.15	0.57	2.09	1.2
0.3	2.58	0.44	0.17	0.18	1.03	2.36	1.3
0.4	3.21	0.72	0.22	0.23	2.04	2.84	1.4
0.5	3.85	1.06	0.27	0.29	3.45	3.26	1.5
0.6	4.48	1.46	0.33	0.34	5.32	3.65	1.6
0.7	5.11	1.92	0.38	0.39	7.69	4.01	1.7
0.8	5.74	2.44	0.42	0.44	10.61	4.35	1.8
0.9	6.38	3.02	0.47	0.49	14.13	4.68	1.9
1.0	7.01	3.66	0.52	0.55	18.28	5.00	2.0

Open Channel Flow Calculations

Swale #: 14

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0141

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.12	0.94	1.1
0.2	2.26	0.32	0.14	0.15	0.44	1.37	1.2
0.3	2.58	0.44	0.17	0.18	0.68	1.55	1.3
0.4	3.21	0.72	0.22	0.23	1.33	1.86	1.4
0.5	3.85	1.06	0.27	0.29	2.26	2.14	1.5
0.6	4.48	1.46	0.33	0.34	3.49	2.39	1.6
0.7	5.11	1.92	0.38	0.39	5.04	2.63	1.7
0.8	5.74	2.44	0.42	0.44	6.96	2.85	1.8
0.9	6.38	3.02	0.47	0.49	9.26	3.07	1.9
1.0	7.01	3.66	0.52	0.55	11.98	3.28	2.0

Open Channel Flow Calculations

Swale #: 15

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0080

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.09	0.70	1.1
0.2	2.26	0.32	0.14	0.15	0.33	1.03	1.2
0.3	2.58	0.44	0.17	0.18	0.51	1.17	1.3
0.4	3.21	0.72	0.22	0.23	1.01	1.40	1.4
0.5	3.85	1.06	0.27	0.29	1.70	1.61	1.5
0.6	4.48	1.46	0.33	0.34	2.63	1.80	1.6
0.7	5.11	1.92	0.38	0.39	3.80	1.98	1.7
0.8	5.74	2.44	0.42	0.44	5.24	2.15	1.8
0.9	6.38	3.02	0.47	0.49	6.88	2.31	1.9
1.0	7.01	3.66	0.52	0.55	9.03	2.47	2.0

Open Channel Flow Calculations

Swale #: 16

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0201

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.15	1.12	1.1
0.2	2.26	0.32	0.14	0.15	0.32	1.64	1.2
0.3	2.58	0.44	0.17	0.18	0.51	1.85	1.3
0.4	3.21	0.72	0.22	0.23	1.59	2.22	1.4
0.5	3.85	1.06	0.27	0.29	2.70	2.55	1.5
0.6	4.48	1.46	0.33	0.34	4.16	2.86	1.6
0.7	5.11	1.92	0.38	0.39	6.02	3.14	1.7
0.8	5.74	2.44	0.42	0.44	8.31	3.41	1.8
0.9	6.38	3.02	0.47	0.49	11.06	3.67	1.9
1.0	7.01	3.66	0.52	0.55	14.31	3.91	2.0

Open Channel Flow Calculations

Swale #: 17

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0085

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.09	0.73	1.1
0.2	2.26	0.32	0.14	0.15	0.34	1.06	1.2
0.3	2.58	0.44	0.17	0.18	0.53	1.20	1.3
0.4	3.21	0.72	0.22	0.23	1.04	1.44	1.4
0.5	3.85	1.06	0.27	0.29	1.76	1.66	1.5
0.6	4.48	1.46	0.33	0.34	2.71	1.86	1.6
0.7	5.11	1.92	0.38	0.39	3.91	2.04	1.7
0.8	5.74	2.44	0.42	0.44	5.40	2.22	1.8
0.9	6.38	3.02	0.47	0.49	7.19	2.38	1.9
1.0	7.01	3.66	0.52	0.55	9.31	2.54	2.0

Open Channel Flow Calculations

Swale #: **18**

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0165

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.13	1.01	1.1
0.2	2.26	0.32	0.14	0.15	0.47	1.48	1.2
0.3	2.58	0.44	0.17	0.18	0.73	1.67	1.3
0.4	3.21	0.72	0.22	0.23	1.44	2.01	1.4
0.5	3.85	1.06	0.27	0.29	2.45	2.31	1.5
0.6	4.48	1.46	0.33	0.34	3.77	2.59	1.6
0.7	5.11	1.92	0.38	0.39	5.45	2.84	1.7
0.8	5.74	2.44	0.42	0.44	7.53	3.09	1.8
0.9	6.38	3.02	0.47	0.49	10.02	3.32	1.9
1.0	7.01	3.66	0.52	0.55	12.96	3.54	2.0

Open Channel Flow Calculations

Swale #: **19**

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0125

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.11	0.88	1.1
0.2	2.26	0.32	0.14	0.15	0.41	1.29	1.2
0.3	2.58	0.44	0.17	0.18	0.64	1.46	1.3
0.4	3.21	0.72	0.22	0.23	1.26	1.75	1.4
0.5	3.85	1.06	0.27	0.29	2.13	2.01	1.5
0.6	4.48	1.46	0.33	0.34	3.28	2.25	1.6
0.7	5.11	1.92	0.38	0.39	4.75	2.48	1.7
0.8	5.74	2.44	0.42	0.44	6.55	2.68	1.8
0.9	6.38	3.02	0.47	0.49	8.72	2.89	1.9
1.0	7.01	3.66	0.52	0.55	11.28	3.09	2.0

Open Channel Flow Calculations

Swale #: 20

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0121

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.11	0.87	1.1
0.2	2.26	0.32	0.14	0.15	0.41	1.27	1.2
0.3	2.58	0.44	0.17	0.18	0.63	1.43	1.3
0.4	3.21	0.72	0.22	0.23	1.24	1.72	1.4
0.5	3.85	1.06	0.27	0.29	2.09	1.98	1.5
0.6	4.48	1.46	0.33	0.34	3.23	2.22	1.6
0.7	5.11	1.92	0.38	0.39	4.67	2.44	1.7
0.8	5.74	2.44	0.42	0.44	6.45	2.64	1.8
0.9	6.38	3.02	0.47	0.49	8.58	2.84	1.9
1.0	7.01	3.66	0.52	0.55	11.10	3.04	2.0

Open Channel Flow Calculations

Swale #: **21**

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0080

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.09	0.70	1.1
0.2	2.26	0.32	0.14	0.15	0.33	1.03	1.2
0.3	2.58	0.44	0.17	0.18	0.51	1.17	1.3
0.4	3.21	0.72	0.22	0.23	1.01	1.40	1.4
0.5	3.85	1.06	0.27	0.29	1.70	1.61	1.5
0.6	4.48	1.46	0.33	0.34	2.63	1.80	1.6
0.7	5.11	1.92	0.38	0.39	3.80	1.98	1.7
0.8	5.74	2.44	0.42	0.44	5.24	2.15	1.8
0.9	6.38	3.02	0.47	0.49	6.98	2.31	1.9
1.0	7.01	3.66	0.52	0.55	9.03	2.47	2.0

Open Channel Flow Calculations

Swale #: 22

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0080

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.09	0.70	1.1
0.2	2.26	0.32	0.14	0.15	0.33	1.03	1.2
0.3	2.58	0.44	0.17	0.18	0.51	1.17	1.3
0.4	3.21	0.72	0.22	0.23	1.01	1.40	1.4
0.5	3.85	1.06	0.27	0.29	1.70	1.61	1.5
0.6	4.48	1.46	0.33	0.34	2.63	1.80	1.6
0.7	5.11	1.92	0.38	0.39	3.80	1.98	1.7
0.8	5.74	2.44	0.42	0.44	5.24	2.15	1.8
0.9	6.38	3.02	0.47	0.49	6.98	2.31	1.9
1.0	7.01	3.66	0.52	0.55	9.03	2.47	2.0

Open Channel Flow Calculations

Swale #: 23

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0458

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.22	1.69	1.1
0.2	2.26	0.32	0.14	0.15	0.79	2.47	1.2
0.3	2.58	0.44	0.17	0.18	1.22	2.79	1.3
0.4	3.21	0.72	0.22	0.23	2.41	3.35	1.4
0.5	3.85	1.06	0.27	0.29	4.07	3.85	1.5
0.6	4.48	1.46	0.33	0.34	6.28	4.31	1.6
0.7	5.11	1.92	0.38	0.39	9.09	4.74	1.7
0.8	5.74	2.44	0.42	0.44	12.54	5.15	1.8
0.9	6.38	3.02	0.47	0.49	16.70	5.53	1.9
1.0	7.01	3.66	0.52	0.55	21.50	5.91	2.0

Open Channel Flow Calculations

Swale #: 24

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0171

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.13	1.03	1.1
0.2	2.26	0.32	0.14	0.15	0.48	1.51	1.2
0.3	2.58	0.44	0.17	0.18	0.75	1.71	1.3
0.4	3.21	0.72	0.22	0.23	1.47	2.05	1.4
0.5	3.85	1.06	0.27	0.29	2.49	2.35	1.5
0.6	4.48	1.46	0.33	0.34	3.84	2.63	1.6
0.7	5.11	1.92	0.38	0.39	5.55	2.90	1.7
0.8	5.74	2.44	0.42	0.44	7.66	3.14	1.8
0.9	6.38	3.02	0.47	0.49	10.20	3.38	1.9
1.0	7.01	3.66	0.52	0.55	13.20	3.61	2.0

Open Channel Flow Calculations

Swale #: 25

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0101

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.10	0.79	1.1
0.2	2.26	0.32	0.14	0.15	0.37	1.16	1.2
0.3	2.58	0.44	0.17	0.18	0.57	1.31	1.3
0.4	3.21	0.72	0.22	0.23	1.13	1.57	1.4
0.5	3.85	1.06	0.27	0.29	1.91	1.81	1.5
0.6	4.48	1.46	0.33	0.34	2.95	2.02	1.6
0.7	5.11	1.92	0.38	0.39	4.27	2.23	1.7
0.8	5.74	2.44	0.42	0.44	5.89	2.42	1.8
0.9	6.38	3.02	0.47	0.49	7.84	2.60	1.9
1.0	7.01	3.66	0.52	0.55	10.14	2.77	2.0

Open Channel Flow Calculations

Swale #: 26

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0080

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.09	0.70	1.1
0.2	2.26	0.32	0.14	0.15	0.33	1.03	1.2
0.3	2.58	0.44	0.17	0.18	0.51	1.17	1.3
0.4	3.21	0.72	0.22	0.23	1.01	1.40	1.4
0.5	3.85	1.06	0.27	0.29	1.70	1.61	1.5
0.6	4.48	1.46	0.33	0.34	2.63	1.80	1.6
0.7	5.11	1.92	0.38	0.39	3.80	1.98	1.7
0.8	5.74	2.44	0.42	0.44	5.24	2.15	1.8
0.9	6.38	3.02	0.47	0.49	6.96	2.31	1.9
1.0	7.01	3.66	0.52	0.55	9.03	2.47	2.0

Open Channel Flow Calculations

Swale #: **27**

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0114

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.11	0.84	1.1
0.2	2.26	0.32	0.14	0.15	0.39	1.23	1.2
0.3	2.58	0.44	0.17	0.18	0.61	1.39	1.3
0.4	3.21	0.72	0.22	0.23	1.20	1.67	1.4
0.5	3.85	1.06	0.27	0.29	2.03	1.92	1.5
0.6	4.48	1.46	0.33	0.34	3.13	2.15	1.6
0.7	5.11	1.92	0.38	0.39	4.53	2.36	1.7
0.8	5.74	2.44	0.42	0.44	6.26	2.57	1.8
0.9	6.38	3.02	0.47	0.49	8.33	2.76	1.9
1.0	7.01	3.66	0.52	0.55	10.78	2.95	2.0

Open Channel Flow Calculations

Swale #: **28**

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0080

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.09	0.70	1.1
0.2	2.26	0.32	0.14	0.15	0.33	1.03	1.2
0.3	2.58	0.44	0.17	0.18	0.51	1.17	1.3
0.4	3.21	0.72	0.22	0.23	1.01	1.40	1.4
0.5	3.85	1.06	0.27	0.29	1.70	1.61	1.5
0.6	4.48	1.46	0.33	0.34	2.63	1.80	1.6
0.7	5.11	1.92	0.38	0.39	3.80	1.98	1.7
0.8	5.74	2.44	0.42	0.44	5.24	2.15	1.8
0.9	6.38	3.02	0.47	0.49	6.98	2.31	1.9
1.0	7.01	3.66	0.52	0.55	9.03	2.47	2.0

Open Channel Flow Calculations

Swale #: **29**

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0080

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.09	0.70	1.1
0.2	2.26	0.32	0.14	0.15	0.33	1.03	1.2
0.3	2.58	0.44	0.17	0.18	0.51	1.17	1.3
0.4	3.21	0.72	0.22	0.23	1.01	1.40	1.4
0.5	3.85	1.06	0.27	0.29	1.70	1.61	1.5
0.6	4.48	1.46	0.33	0.34	2.63	1.80	1.6
0.7	5.11	1.92	0.38	0.39	3.80	1.98	1.7
0.8	5.74	2.44	0.42	0.44	5.24	2.15	1.8
0.9	6.38	3.02	0.47	0.49	6.98	2.31	1.9
1.0	7.01	3.66	0.52	0.55	9.03	2.47	2.0

Open Channel Flow Calculations

Swale #: **30**

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0120

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.11	0.86	1.1
0.2	2.26	0.32	0.14	0.15	0.40	1.27	1.2
0.3	2.58	0.44	0.17	0.18	0.62	1.43	1.3
0.4	3.21	0.72	0.22	0.23	1.23	1.72	1.4
0.5	3.85	1.06	0.27	0.29	2.09	1.97	1.5
0.6	4.48	1.46	0.33	0.34	3.22	2.21	1.6
0.7	5.11	1.92	0.38	0.39	4.69	2.43	1.7
0.8	5.74	2.44	0.42	0.44	6.42	2.63	1.8
0.9	6.38	3.02	0.47	0.49	8.55	2.83	1.9
1.0	7.01	3.66	0.52	0.55	11.06	3.02	2.0

Open Channel Flow Calculations

Swale #: 31

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0037

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.06	0.48	1.1
0.2	2.26	0.32	0.14	0.15	0.22	0.70	1.2
0.3	2.58	0.44	0.17	0.18	0.35	0.79	1.3
0.4	3.21	0.72	0.22	0.23	0.68	0.95	1.4
0.5	3.85	1.06	0.27	0.29	1.16	1.09	1.5
0.6	4.48	1.46	0.33	0.34	1.79	1.23	1.6
0.7	5.11	1.92	0.38	0.39	2.58	1.35	1.7
0.8	5.74	2.44	0.42	0.44	3.66	1.46	1.8
0.9	6.38	3.02	0.47	0.49	4.75	1.57	1.9
1.0	7.01	3.66	0.52	0.55	6.14	1.68	2.0

Open Channel Flow Calculations

Swale #: **32**

Side slope = 3
 Bottom width = 1
 Manning's coefficient = 0.035
 Slope of channel = 0.0100

Depth (ft)	Wetted Perimeter (ft)	Area (ft ²)	Hydraulic Radius (ft)	Hydraulic Depth (ft)	Flowrate (cfs)	Velocity (ft/s)	F value
0.0	1.00	0.00	0.00	0.00	0.00	#DIV/0!	1.0
0.1	1.63	0.13	0.08	0.08	0.10	0.79	1.1
0.2	2.26	0.32	0.14	0.15	0.37	1.15	1.2
0.3	2.58	0.44	0.17	0.18	0.57	1.30	1.3
0.4	3.21	0.72	0.22	0.23	1.12	1.57	1.4
0.5	3.85	1.06	0.27	0.29	1.90	1.80	1.5
0.6	4.48	1.46	0.33	0.34	2.94	2.01	1.6
0.7	5.11	1.92	0.38	0.39	4.25	2.21	1.7
0.8	5.74	2.44	0.42	0.44	5.86	2.40	1.8
0.9	6.38	3.02	0.47	0.49	7.80	2.59	1.9
1.0	7.01	3.66	0.52	0.55	10.09	2.76	2.0

MAPS

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