

File.... \\S10svr01\M\p\0403734\STORM\BASHER_KILL_PROPOSED.PPW

Tc Equations used...

==== SCS TR-55 Sheet Flow =====

$$Tc = (.007 * ((n * Lf)**0.8)) / ((P**.5) * (Sf**.4))$$

Where: Tc = Time of concentration, hrs
n = Mannings n
Lf = Flow length, ft
P = 2yr, 24hr Rain depth, inches
Sf = Slope, %

==== SCS TR-55 Shallow Concentrated Flow =====

Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved surface:
V = 20.3282 * (Sf**0.5)

$$Tc = (Lf / V) / (3600sec/hr)$$

Where: V = Velocity, ft/sec
Sf = Slope, ft/ft
Tc = Time of concentration, hrs
Lf = Flow length, ft

Type.... Runoff CN-Area
Name.... SUBAREA 1A

File.... \\S10svr01\M\p\0403734\STORM\BASHER_KILL_PROPOSED.PPW

RUNOFF CURVE NUMBER DATA

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Soil/Surface Description	CN	Area acres	Impervious Adjustment		Adjusted CN
			%C	%UC	
Woods - good	70	2.004			70.00
Open space (Lawns, parks etc.) - Goo	74	3.325			74.00
Impervious Areas - Paved parking lo	98	1.345			98.00

COMPOSITE AREA & WEIGHTED CN ---> 6.674 77.64 (78)
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Type.... Runoff CN-Area
Name.... SUBAREA 1B

File.... \\S10svr01\M\p\0403734\STORM\BASHER_KILL_PROPOSED.PPW

RUNOFF CURVE NUMBER DATA

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Soil/Surface Description	CN	Area acres	Impervious Adjustment		Adjusted CN
			%C	%UC	
Woods - good	70	.392			70.00
Open space (Lawns,parks etc.) - Goo	74	2.569			74.00
Impervious Areas - Paved parking lo	98	.727			98.00

COMPOSITE AREA & WEIGHTED CN ---> 3.688 78.31 (78)
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Type.... Runoff CN-Area
Name.... SUBAREA 1C

File.... \\s10svr01\M\p\0403734\STORM\BASHER_KILL_PROPOSED.PPW

RUNOFF CURVE NUMBER DATA

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Soil/Surface Description	CN	Area acres	Impervious Adjustment		Adjusted CN
			%C	%UC	
Woods - good	70	2.571			70.00
Open space (Lawns, parks etc.) - Goo	74	2.793			74.00
Impervious Areas - Paved parking lo	98	.602			98.00

COMPOSITE AREA & WEIGHTED CN ---> 5.966 74.70 (75)

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Type.... Runoff CN-Area
Name.... SUBAREA 1D

File.... \\S10svr01\M\p\0403734\STORM\BASHER_KILL_PROPOSED.PPW

RUNOFF CURVE NUMBER DATA

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Soil/Surface Description	CN	Area acres	Impervious Adjustment		Adjusted CN
			%C	%UC	
Open space (Lawns, parks etc.) - Goo	74	4.956			74.00
Impervious Areas - Paved parking lo	98	2.091			98.00
Woods - fair	73	.556			73.00

COMPOSITE AREA & WEIGHTED CN ---> 7.603 80.53 (81)
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Type.... Runoff CN-Area
Name.... SUBAREA 1E

File.... \\S10svr01\M\p\0403734\STORM\BASHER_KILL_PROPOSED.PPW

RUNOFF CURVE NUMBER DATA

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Soil/Surface Description	CN	Area acres	Impervious Adjustment %C %UC	Adjusted CN
Woods - good	70	.960		70.00
Open space (Lawns,parks etc.) - Goo	74	5.733		74.00
Impervious Areas - Paved parking lo	98	2.091		98.00

COMPOSITE AREA & WEIGHTED CN ---> 8.784 79.28 (79)

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Type.... Runoff CN-Area
Name.... SUBAREA 1F

File.... \\S10svr01\M\p\0403734\STORM\BASHER_KILL_PROPOSED.PPW

RUNOFF CURVE NUMBER DATA

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Soil/Surface Description	CN	Area acres	Impervious Adjustment		Adjusted CN
			%C	%UC	
Woods - good	30	63.352			30.00
Woods - good	70	100.805			70.00
Woods - good	77	20.374			77.00
Woods - fair	36	55.678			36.00
Woods - fair	60	20.485			60.00
Woods - fair	73	51.002			73.00
Woods - fair	79	141.665			79.00
Impervious Areas - Paved parking lo	98	1.317			98.00

COMPOSITE AREA & WEIGHTED CN ---> 454.678 63.35 (63)
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Type.... Runoff CN-Area
Name.... SUBAREA 1G

File.... \\S10svr01\M\p\0403734\STORM\BASHER_KILL_PROPOSED.PPW

RUNOFF CURVE NUMBER DATA

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Soil/Surface Description	CN	Area acres	Impervious Adjustment		Adjusted CN
			%C	%UC	
Open space (Lawns,parks etc.) - Goo	39	1.622			39.00
Open space (Lawns,parks etc.) - Goo	80	9.277			80.00
Impervious Areas - Paved parking lo	98	4.987			98.00
Woods - fair	73	2.219			73.00

COMPOSITE AREA & WEIGHTED CN ----> 18.105 80.43 (80)

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Type.... Runoff CN-Area
Name.... SUBAREA 1H

File.... \\S10svr01\M\p\0403734\STORM\BASHER_KILL_PROPOSED.PPW

RUNOFF CURVE NUMBER DATA

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Soil/Surface Description	CN	Area acres	Impervious Adjustment		Adjusted CN
			%C	%UC	
Woods - fair	73	.856			73.00
Open space (Lawns,parks etc.) - Goo	39	1.017			39.00
Open space (Lawns,parks etc.) - Goo	74	1.538			74.00
Impervious Areas - Paved parking lo	98	1.844			98.00

COMPOSITE AREA & WEIGHTED CN ----> 5.255 75.49 (75)

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Type.... Runoff CN-Area
Name.... SUBAREA 11

File.... \\S10svr01\M\p\0403734\STORM\BASHER_KILL_PROPOSED.PPW

RUNOFF CURVE NUMBER DATA

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Soil/Surface Description	CN	Area acres	Impervious Adjustment		Adjusted CN
			%C	%UC	
Open space (Lawns,parks etc.) - Goo	39	.859			39.00
Open space (Lawns,parks etc.) - Goo	74	1.081			74.00
Impervious Areas - Paved parking lo	98	1.776			98.00

COMPOSITE AREA & WEIGHTED CN ----> 3.716 77.38 (77)
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