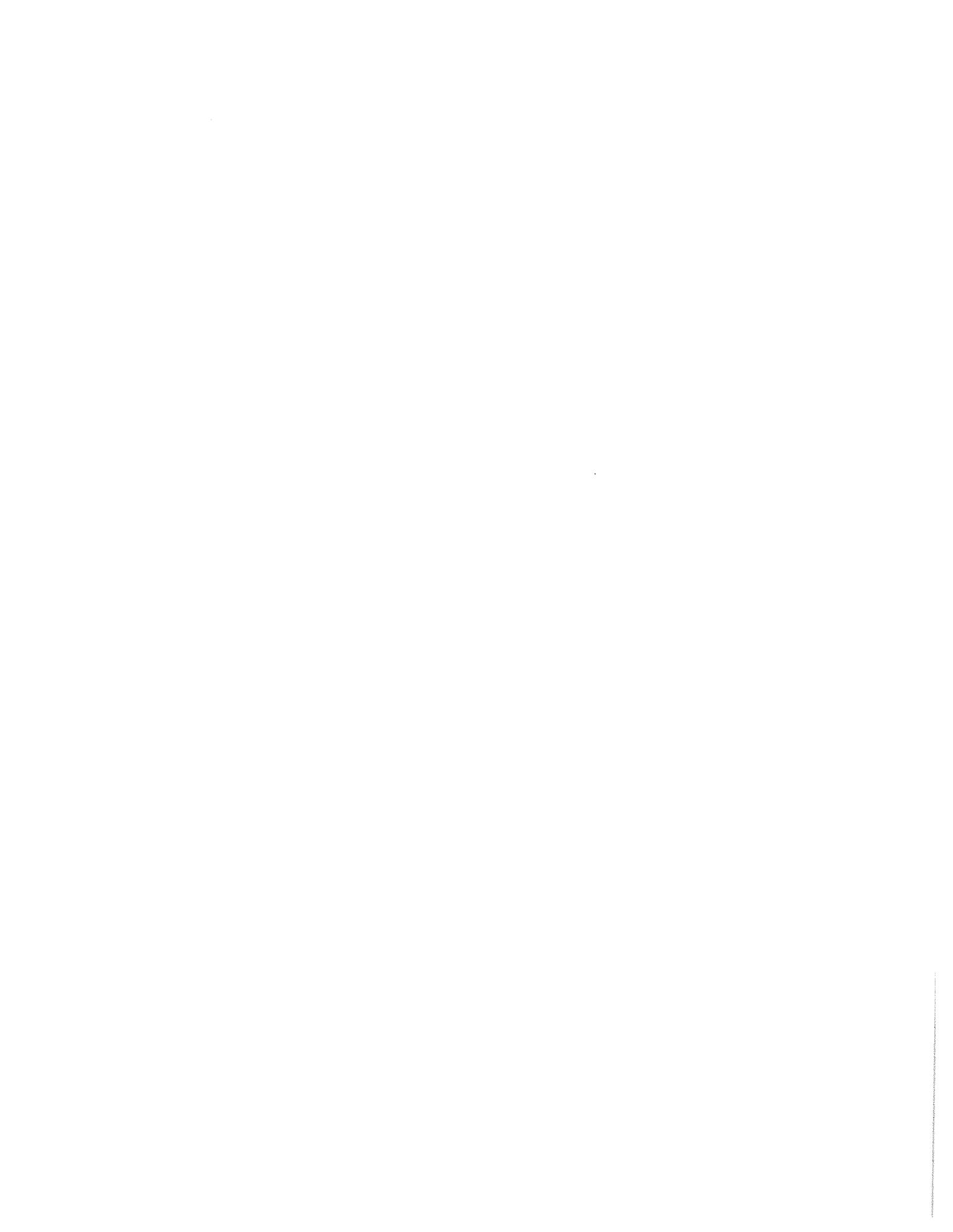
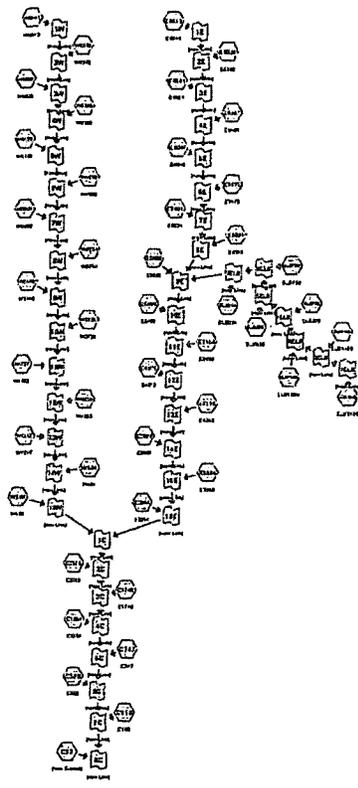


Appendix B – Silver Creek Analysis
HydroCAD – 2, 10, and 100-year Storm Events
HEC-RAS



2-Year Storm

HydroCAD - 2, 10, and 100-year Storm Events



Drainage Diagram for Hec-Ras Input 30-60 min
 Prepared by BETA Group, Inc. 9/18/2007
 HydroCAD® 8.00 s/n 001895 © 2006 HydroCAD Software Solutions LLC

Time span=0.00-30.00 hrs, dt=0.05 hrs, 601 points
 Runoff by SCS TR-20 method, UH=SCS
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment C116: C116	Runoff Area=4.970 ac Runoff Depth=1.36" Flow Length=450' Tc=25.6 min CN=77 Runoff=4.66 cfs 0.562 af
Subcatchment C1334: C1334	Runoff Area=35.190 ac Runoff Depth=1.77" Flow Length=900' Slope=0.0200 /' Tc=34.0 min CN=83 Runoff=38.94 cfs 5.205 af
Subcatchment C1748: C1748	Runoff Area=12.100 ac Runoff Depth=1.36" Flow Length=850' Tc=33.5 min CN=77 Runoff=10.09 cfs 1.368 af
Subcatchment C2359: C2359	Runoff Area=32.610 ac Runoff Depth=1.70" Flow Length=1,050' Slope=0.0400 /' Tc=36.8 min CN=82 Runoff=33.21 cfs 4.621 af
Subcatchment C560: C560	Runoff Area=121.880 ac Runoff Depth=2.01" Flow Length=4,800' Tc=73.9 min CN=86 Runoff=99.21 cfs 20.416 af
Subcatchment C62: (new Subcat)	Runoff Area=12.170 ac Runoff Depth=1.77" Flow Length=2,400' Tc=31.3 min CN=83 Runoff=13.99 cfs 1.800 af
Subcatchment C747: C747	Runoff Area=13.060 ac Runoff Depth=1.49" Flow Length=700' Slope=0.0050 /' Tc=58.8 min CN=79 Runoff=8.91 cfs 1.620 af
Subcatchment E2964: E2964	Runoff Area=25.840 ac Runoff Depth=1.36" Flow Length=1,460' Slope=0.0400 /' Tc=35.4 min CN=77 Runoff=21.05 cfs 2.933 af
Subcatchment E3568: E3568	Runoff Area=55.460 ac Runoff Depth=1.00" Flow Length=2,790' Tc=55.6 min CN=71 Runoff=24.54 cfs 4.625 af
Subcatchment E3889: E3889	Runoff Area=6.520 ac Runoff Depth=1.36" Flow Length=650' Tc=22.3 min CN=77 Runoff=6.51 cfs 0.737 af
Subcatchment E4219: E4219	Runoff Area=9.290 ac Runoff Depth=1.17" Flow Length=800' Slope=0.0330 /' Tc=24.2 min CN=74 Runoff=7.55 cfs 0.907 af
Subcatchment E4975: E4975	Runoff Area=17.350 ac Runoff Depth=1.42" Flow Length=1,110' Slope=0.0250 /' Tc=46.6 min CN=78 Runoff=12.87 cfs 2.056 af
Subcatchment E5168: E5168	Runoff Area=7.470 ac Runoff Depth=2.45" Flow Length=500' Tc=17.1 min CN=91 Runoff=15.07 cfs 1.523 af
Subcatchment E5498: E5498	Runoff Area=6.670 ac Runoff Depth=1.77" Flow Length=1,000' Tc=38.4 min CN=83 Runoff=6.95 cfs 0.886 af
Subcatchment E5909: E5909	Runoff Area=3.860 ac Runoff Depth=1.77" Flow Length=450' Slope=0.0080 /' Tc=52.8 min CN=83 Runoff=3.40 cfs 0.571 af

Subcatchment E5369: E5369	Runoff Area=17.580 ac Runoff Depth=1.36" Flow Length=950' Tc=63.2 min CN=77 Runoff=10.36 cfs 1.888 af
Subcatchment E6821: E6821	Runoff Area=47.710 ac Runoff Depth=1.63" Flow Length=2,042' Tc=62.2 min CN=81 Runoff=34.67 cfs 6.472 af
Subcatchment E7473: E7473	Runoff Area=56.050 ac Runoff Depth=1.56" Flow Length=1,565' Tc=38.5 min CN=80 Runoff=52.19 cfs 7.274 af
Subcatchment E8046: E8046	Runoff Area=63.610 ac Runoff Depth=2.08" Flow Length=3,435' Tc=57.2 min CN=87 Runoff=63.20 cfs 11.093 af
Subcatchment E8497: E8497	Runoff Area=161.630 ac Runoff Depth=1.42" Flow Length=4,455' Tc=135.0 min CN=78 Runoff=60.02 cfs 19.150 af
Subcatchment E9081: E9081	Runoff Area=12.310 ac Runoff Depth=1.63" Flow Length=575' Tc=22.5 min CN=81 Runoff=14.95 cfs 1.670 af
Subcatchment E9326: E9326	Runoff Area=24.170 ac Runoff Depth=1.17" Flow Length=1,650' Tc=40.2 min CN=74 Runoff=15.55 cfs 2.359 af
Subcatchment E9611: E9611	Runoff Area=33.700 ac Runoff Depth=2.01" Flow Length=1,650' Tc=53.6 min CN=88 Runoff=33.37 cfs 5.645 af
Subcatchment ELB1369: ELB1369	Runoff Area=19.910 ac Runoff Depth=1.56" Flow Length=2,055' Tc=44.5 min CN=80 Runoff=16.75 cfs 2.584 af
Subcatchment ELB1483: ELB1483	Runoff Area=10.040 ac Runoff Depth=1.11" Flow Length=1,125' Slope=0.0400 /' Tc=38.1 min CN=73 Runoff=8.25 cfs 0.931 af
Subcatchment ELB2128: ELB2128	Runoff Area=38.550 ac Runoff Depth=1.49" Flow Length=900' Tc=60.5 min CN=79 Runoff=24.81 cfs 4.534 af
Subcatchment ELB234: ELB234	Runoff Area=3.920 ac Runoff Depth=1.83" Flow Length=400' Slope=0.0150 /' Tc=26.4 min CN=81 Runoff=4.44 cfs 0.532 af
Subcatchment ELB729: ELB729	Runoff Area=53.530 ac Runoff Depth=1.49" Flow Length=4,165' Tc=100.2 min CN=79 Runoff=25.77 cfs 5.641 af
Subcatchment ELB829: ELB829	Runoff Area=4.250 ac Runoff Depth=1.17" Flow Length=750' Slope=0.0400 /' Tc=31.8 min CN=74 Runoff=3.06 cfs 0.415 af
Subcatchment ELB972: ELB972	Runoff Area=7.430 ac Runoff Depth=1.17" Flow Length=900' Slope=0.0400 /' Tc=27.0 min CN=74 Runoff=5.77 cfs 0.725 af
Subcatchment W1217: W1217	Runoff Area=10.690 ac Runoff Depth=2.35" Flow Length=650' Slope=0.0100 /' Tc=17.0 min CN=90 Runoff=20.92 cfs 2.097 af
Subcatchment W1626: W1626	Runoff Area=60.580 ac Runoff Depth=1.29" Flow Length=2,635' Tc=47.0 min CN=76 Runoff=40.23 cfs 6.529 af

Subcatchment W1737: W1737	Runoff Area=26.010 ac Runoff Depth=1.42" Flow Length=1,150' Tc=47.6 min CN=78 Runoff=19.01 cfs 3.092 af
Subcatchment W2720: W2720	Runoff Area=27.950 ac Runoff Depth=1.70" Flow Length=700' Tc=35.0 min CN=82 Runoff=23.28 cfs 3.950 af
Subcatchment W290: W290	Runoff Area=4.140 ac Runoff Depth=1.11" Flow Length=650' Slope=0.0300 /' Tc=28.3 min CN=73 Runoff=2.96 cfs 0.384 af
Subcatchment W3148: W3148	Runoff Area=9.510 ac Runoff Depth=1.23" Flow Length=750' Tc=46.4 min CN=75 Runoff=6.01 cfs 0.976 af
Subcatchment W3774: W3774	Runoff Area=15.610 ac Runoff Depth=1.49" Flow Length=1,200' Tc=31.3 min CN=79 Runoff=14.88 cfs 1.937 af
Subcatchment W3975: W3975	Runoff Area=9.970 ac Runoff Depth=2.45" Flow Length=865' Tc=20.3 min CN=91 Runoff=18.85 cfs 2.033 af
Subcatchment W4529: W4529	Runoff Area=64.080 ac Runoff Depth=2.01" Flow Length=3,200' Tc=51.2 min CN=80 Runoff=65.20 cfs 10.734 af
Subcatchment W5128: W5128	Runoff Area=11.350 ac Runoff Depth=2.18" Flow Length=605' Slope=0.0200 /' Tc=23.3 min CN=88 Runoff=18.24 cfs 2.060 af
Subcatchment W5300: W5300	Runoff Area=25.630 ac Runoff Depth=1.42" Flow Length=925' Tc=30.7 min CN=78 Runoff=23.43 cfs 3.037 af
Subcatchment W6008: W6008	Runoff Area=12.580 ac Runoff Depth=1.42" Flow Length=875' Tc=42.8 min CN=78 Runoff=9.78 cfs 1.491 af
Subcatchment W6278: W6278	Runoff Area=16.920 ac Runoff Depth=1.42" Flow Length=1,350' Tc=25.8 min CN=78 Runoff=15.74 cfs 1.886 af
Subcatchment W6643: W6643	Runoff Area=25.890 ac Runoff Depth=1.93" Flow Length=2,400' Tc=39.4 min CN=85 Runoff=29.05 cfs 4.163 af
Subcatchment W684: W684	Runoff Area=7.620 ac Runoff Depth=1.29" Flow Length=650' Slope=0.0260 /' Tc=30.2 min CN=76 Runoff=5.80 cfs 0.821 af
Link 1C: (new Link)	Inflow=200.32 cfs 128.304 af Primary=200.32 cfs 128.304 af
Link 1E: (new Link)	Inflow=33.37 cfs 5.645 af Primary=33.37 cfs 5.645 af
Link 1ELB: (new Link)	Inflow=24.81 cfs 4.534 af Primary=24.81 cfs 4.534 af
Link 1W: (new Link)	Inflow=29.05 cfs 4.163 af Primary=29.05 cfs 4.163 af

Link 2C: (new Link)	delayed by 20.0 min	Inflow=201.72 cfs 132.925 af Primary=201.62 cfs 132.410 af
Link 2E: (new Link)	delayed by 45.0 min	Inflow=48.25 cfs 8.004 af Primary=48.25 cfs 8.004 af
Link 2ELB: (new Link)	delayed by 20.0 min	Inflow=29.50 cfs 5.466 af Primary=29.47 cfs 5.469 af
Link 2W: (new Link)	delayed by 30.0 min	Inflow=42.95 cfs 6.049 af Primary=42.95 cfs 6.049 af
Link 3C: (new Link)	delayed by 20.0 min	Inflow=202.08 cfs 133.778 af Primary=201.95 cfs 133.207 af
Link 3E: (new Link)	delayed by 45.0 min	Inflow=50.51 cfs 9.674 af Primary=50.51 cfs 9.674 af
Link 3ELB: (new Link)	delayed by 20.0 min	Inflow=39.75 cfs 8.050 af Primary=39.71 cfs 8.050 af
Link 3W: (new Link)	delayed by 30.0 min	Inflow=49.69 cfs 7.540 af Primary=49.69 cfs 7.540 af
Link 4C: (new Link)	delayed by 20.0 min	Inflow=203.38 cfs 138.411 af Primary=203.27 cfs 137.797 af
Link 4E: (new Link)	delayed by 45.0 min	Inflow=108.20 cfs 28.824 af Primary=108.20 cfs 28.822 af
Link 4ELB: (new Link)	delayed by 20.0 min	Inflow=40.98 cfs 8.775 af Primary=40.93 cfs 8.775 af
Link 4W: (new Link)	delayed by 30.0 min	Inflow=54.62 cfs 10.577 af Primary=54.62 cfs 10.577 af
Link 5C: (new Link)		Inflow=203.76 cfs 139.417 af Primary=203.76 cfs 139.417 af
Link 5E: (new Link)	delayed by 60.0 min	Inflow=118.18 cfs 39.918 af Primary=118.18 cfs 39.909 af
Link 5ELB: (new Link)	delayed by 20.0 min	Inflow=41.55 cfs 8.190 af Primary=41.51 cfs 8.190 af
Link 5W: (new Link)	delayed by 30.0 min	Inflow=56.62 cfs 12.638 af Primary=56.62 cfs 12.638 af
Link 6C: (new Link)		Inflow=209.20 cfs 159.833 af Primary=209.20 cfs 159.833 af

Link 12W: (new Link)	delayed by 30.0 min	Inflow=104.08 cfs 41.885 af Primary=104.08 cfs 41.876 af
Link 13E: (new Link)	delayed by 30.0 min	Inflow=138.61 cfs 76.851 af Primary=138.61 cfs 76.489 af
Link 13W: (new Link)	delayed by 30.0 min	Inflow=104.95 cfs 43.974 af Primary=104.95 cfs 43.935 af
Link 14E: (new Link)	delayed by 30.0 min	Inflow=138.81 cfs 77.227 af Primary=138.81 cfs 76.823 af
Link 14W: (new Link)	delayed by 30.0 min	Inflow=105.39 cfs 44.756 af Primary=105.39 cfs 44.695 af
Link 15E: (new Link)	delayed by 30.0 min	Inflow=140.25 cfs 81.448 af Primary=140.25 cfs 80.960 af
Link 15W: (new Link)	delayed by 30.0 min	Inflow=105.59 cfs 45.079 af Primary=105.59 cfs 44.991 af
Link 16E: (new Link)	delayed by 30.0 min	Inflow=141.34 cfs 83.893 af Primary=141.34 cfs 83.313 af

Total Runoff Area = 1,244,460 ac Runoff Volume = 167,132 af Average Runoff Depth = 1.61"
68.71% Pervious Area = 855,023 ac 31.29% Impervious Area = 389,437 ac

Link 6E: (new Link)	delayed by 60.0 min	Inflow=123.04 cfs 47.183 af Primary=123.04 cfs 47.160 af
Link 6ELB: (new Link)	delayed by 20.0 min	Inflow=61.65 cfs 15.831 af Primary=61.61 cfs 15.831 af
Link 6W: (new Link)	delayed by 30.0 min	Inflow=88.08 cfs 23.370 af Primary=86.08 cfs 23.370 af
Link 7C: (new Link)		Inflow=209.37 cfs 160.395 af Primary=209.37 cfs 160.395 af
Link 7E: (new Link)	delayed by 45.0 min	Inflow=126.55 cfs 53.833 af Primary=126.55 cfs 53.583 af
Link 7ELB: (new Link)	delayed by 20.0 min	Inflow=62.14 cfs 16.382 af Primary=62.10 cfs 16.362 af
Link 7W: (new Link)	delayed by 30.0 min	Inflow=88.59 cfs 25.403 af Primary=88.59 cfs 25.403 af
Link 8C: (new Link)		Inflow=209.84 cfs 162.185 af Primary=209.84 cfs 162.195 af
Link 8E: (new Link)	delayed by 45.0 min	Inflow=127.52 cfs 55.671 af Primary=127.52 cfs 55.425 af
Link 8W: (new Link)	delayed by 30.0 min	Inflow=91.10 cfs 27.339 af Primary=91.10 cfs 27.339 af
Link 9E: (new Link)	delayed by 30.0 min	Inflow=137.07 cfs 72.358 af Primary=137.07 cfs 72.183 af
Link 9W: (new Link)	delayed by 30.0 min	Inflow=92.36 cfs 28.315 af Primary=92.36 cfs 28.315 af
Link 10E: (new Link)	delayed by 30.0 min	Inflow=137.36 cfs 73.170 af Primary=137.36 cfs 72.943 af
Link 10W: (new Link)	delayed by 30.0 min	Inflow=95.29 cfs 32.278 af Primary=95.29 cfs 32.278 af
Link 11E: (new Link)	delayed by 30.0 min	Inflow=137.71 cfs 74.466 af Primary=137.71 cfs 74.199 af
Link 11W: (new Link)	delayed by 30.0 min	Inflow=98.96 cfs 35.357 af Primary=98.96 cfs 35.356 af
Link 12E: (new Link)	delayed by 30.0 min	Inflow=138.33 cfs 76.255 af Primary=138.33 cfs 75.944 af

Subcatchment C116: C116

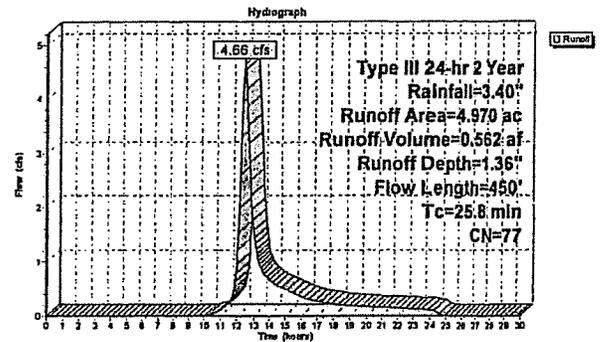
Runoff = 4.66 cfs @ 12.38 hrs, Volume = 0.562 af, Depth = 1.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, di= 0.05 hrs
Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
4.970	77	Brush, Poor, HSG C
4.970		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.3	150	0.0100	0.14		Sheet Flow, Grass: Short n=0.150 P2=3.40"
8.5	300	0.0070	0.59		Shallow Concentrated Flow, Short Grass Pasture Kv=7.0 fps
25.8	450				Total

Subcatchment C116: C116



Subcatchment C1334: C1334

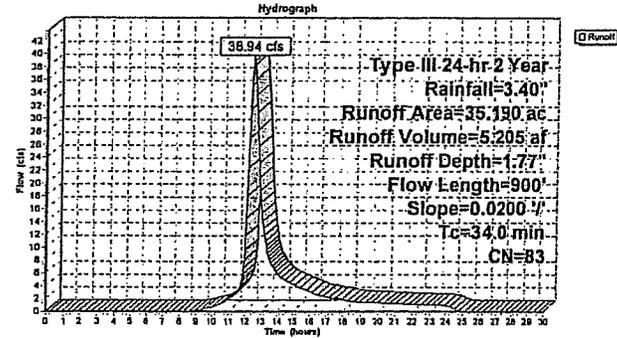
Runoff = 38.94 cfs @ 12.48 hrs, Volume= 5.205 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
2.520	94	Urban commercial, 85% Imp, HSG C
2.450	81	1/3 acre lots, 30% Imp, HSG C
2.510	74	>75% Grass cover, Good, HSG C
27.710	83	1/4 acre lots, 38% Imp, HSG C
35.190	83	Weighted Average
21.783		Pervious Area
13.407		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	150	0.0200	0.13		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
6.7	400	0.0200	0.99		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
8.2	350	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
34.0	900				Total

Subcatchment C1334: C1334



Subcatchment C1748: C1748

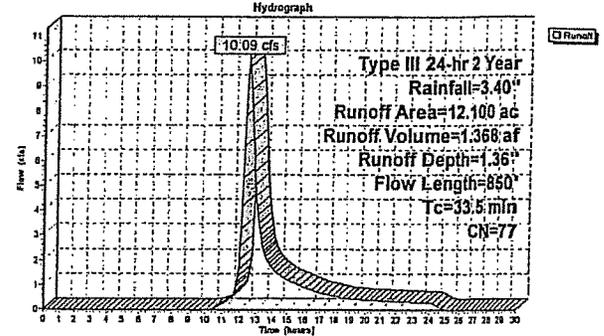
Runoff = 10.09 cfs @ 12.49 hrs, Volume= 1.368 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
1.420	94	Urban commercial, 85% Imp, HSG C
2.500	83	1/4 acre lots, 38% Imp, HSG C
2.020	74	>75% Grass cover, Good, HSG C
3.800	70	Brush, Fair, HSG C
2.500	74	>75% Grass cover, Good, HSG C
12.100	77	Weighted Average
9.920		Pervious Area
2.180		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.0	150	0.0270	0.15		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
6.5	450	0.0270	1.15		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
10.0	250	0.0070	0.42		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
33.5	850				Total

Subcatchment C1748: C1748



Subcatchment C2359: C2359

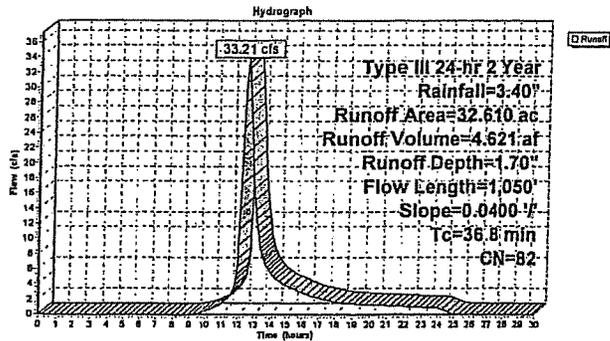
Runoff = 33.21 cfs @ 12.52 hrs, Volume= 4.621 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
8.300	81	Urban Industrial, 72% Imp, HSG C
2.000	77	Brush, Fair, HSG D
7.540	70	Brush, Fair, HSG C
14.770	83	1/4 acre lots, 38% Imp, HSG C
32.610	82	Weighted Average
21.021		Pervious Area
11.589		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.8	150	0.0400	0.11		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
15.0	900	0.0400	1.00		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
36.8	1,050				Total

Subcatchment C2359: C2359



Subcatchment C560: C560

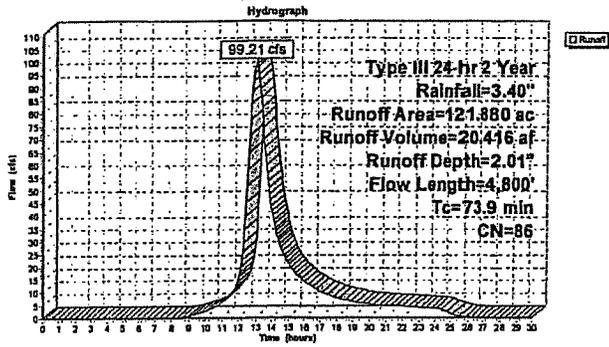
Runoff = 99.21 cfs @ 13.00 hrs, Volume= 20.416 af, Depth= 2.01"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
19.710	94	Urban commercial, 85% Imp, HSG C
1.910	74	>75% Grass cover, Good, HSG C
1.250	73	Woods, Fair, HSG C
2.830	74	>75% Grass cover, Good, HSG C
7.880	70	1/2 acre lots, 25% Imp, HSG B
9.080	60	Woods, Fair, HSG B
79.440	90	1/8 acre lots, 65% Imp, HSG C
121.880	86	Weighted Average
51.520		Pervious Area
70.350		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.1	200	0.0380	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
14.5	850	0.0380	0.97		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
2.9	225	0.0350	1.31		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
8.1	1,700	0.0300	3.52		Shallow Concentrated Flow, Paved Kv= 20.3 fps
6.7	1,100	0.0180	2.72		Shallow Concentrated Flow, Paved Kv= 20.3 fps
3.5	300	0.0050	1.44		Shallow Concentrated Flow, Paved Kv= 20.3 fps
10.1	425	0.0100	0.70		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
73.9	4,800				Total

Subcatchment C660: C660



Subcatchment C62: (new Subcat)

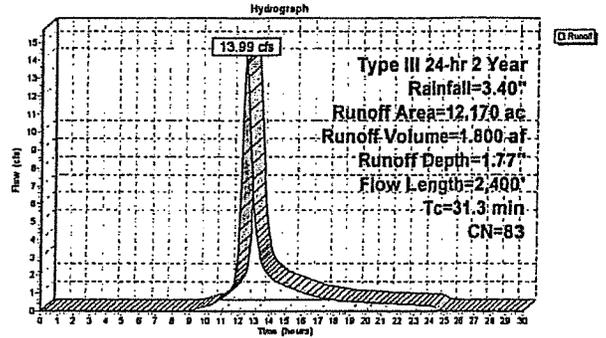
Runoff = 13.99 cfs @ 12.44 hrs, Volume= 1,800 af, Depth= 1.77'

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
12.170	83	1/4 acre lots, 38% imp, HSG C
7.545		Pervious Area
4.625		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.5	200	0.0400	0.27		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
2.4	200	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
16.4	2,000	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
31.3	2,400	Total			

Subcatchment C62: (new Subcat)



Subcatchment C747: C747

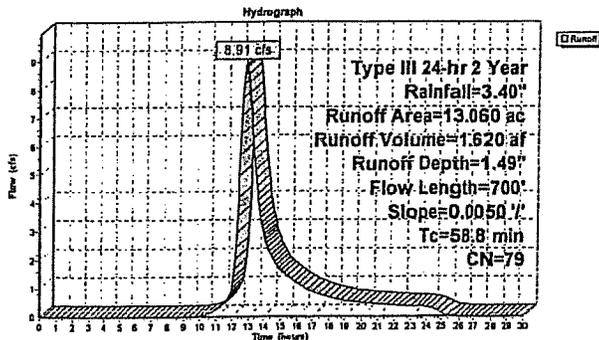
Runoff = 8.91 cfs @ 12.83 hrs, Volume= 1,620 af, Depth= 1.49'

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
2.870	90	1/8 acre lots, 65% imp, HSG C
2.010	83	1/4 acre lots, 38% imp, HSG C
4.720	74	>75% Grass cover, Good, HSG C
0.560	94	Urban commercial, 85% imp, HSG C
2.800	70	Brush, Fair, HSG C
13.060	79	Weighted Average
9.955		Pervious Area
3.105		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.0	200	0.0050	0.08		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
16.8	500	0.0050	0.49		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
58.8	700	Total			

Subcatchment C747: C747



Subcatchment E2964: E2964

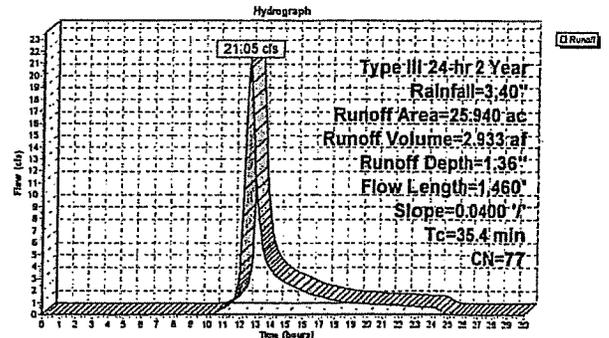
Runoff = 21.05 cfs @ 12.52 hrs, Volume= 2,933 af, Depth= 1.36'

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
12.450	81	1/3 acre lots, 30% imp, HSG C
13.490	73	Woods, Fair, HSG C
25.940	77	Weighted Average
22.205		Pervious Area
3.735		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.5	150	0.0400	0.17		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
2.4	200	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
18.5	1,110	0.0400	1.00		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
35.4	1,480	Total			

Subcatchment E2964: E2964



Subcatchment E3668: E3568

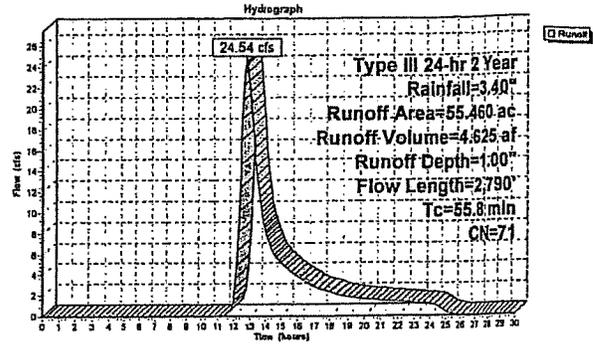
Runoff = 24.54 cfs @ 12.83 hrs, Volume= 4.625 af, Depth= 1.00"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
1.850	74	>75% Grass cover, Good, HSG C
12.510	61	>75% Grass cover, Good, HSG B
20.920	83	1/4 acre lots, 38% Imp, HSG C
13.320	60	Woods, Fair, HSG B
6.850	73	Woods, Fair, HSG C
55.460	71	Weighted Average
47.510		Pervious Area
7.950		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.8	150	0.0400	0.11		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
9.8	590	0.0400	1.00		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
9.8	810	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
5.1	440	0.0050	1.44		Shallow Concentrated Flow, Paved Kv= 20.3 fps
9.5	800	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
55.8	2,780				Total

Subcatchment E3568: E3568



Subcatchment E3889: E3889

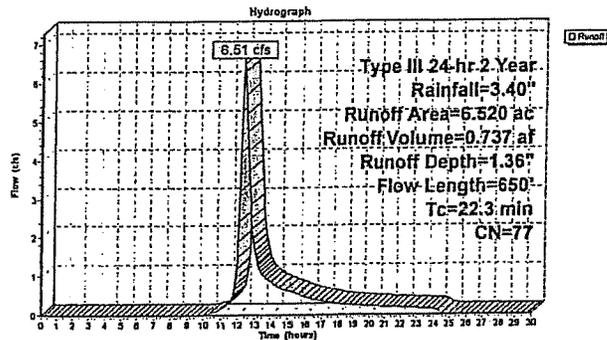
Runoff = 6.51 cfs @ 12.32 hrs, Volume= 0.737 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
2.290	83	1/4 acre lots, 38% Imp, HSG C
4.230	74	>75% Grass cover, Good, HSG C
6.520	77	Weighted Average
5.650		Pervious Area
0.870		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.3	150	0.0300	0.15		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
6.0	500	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
22.3	650				Total

Subcatchment E3889: E3889



Subcatchment E4219: E4219

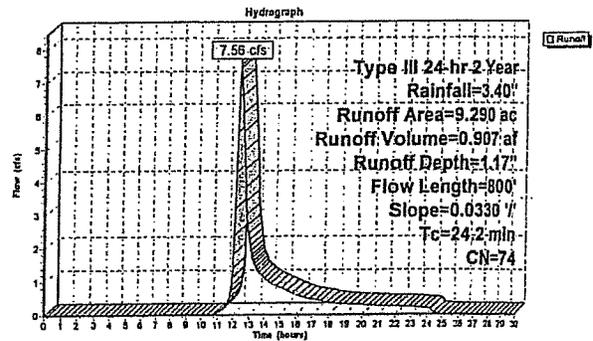
Runoff = 7.56 cfs @ 12.36 hrs, Volume= 0.907 af, Depth= 1.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
9.290	74	>75% Grass cover, Good, HSG C
9.290		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.7	150	0.0330	0.16		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
8.5	650	0.0330	1.27		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
24.2	800				Total

Subcatchment E4219: E4219



Subcatchment E4975: E4975

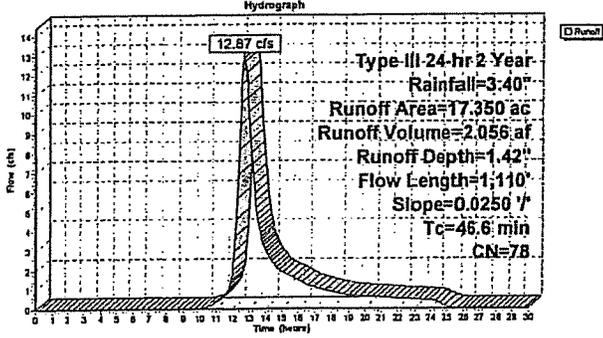
Runoff = 12.87 cfs @ 12.67 hrs, Volume= 2.056 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
4.910	91	Urban Industrial, 72% Imp, HSG C
12.440	73	Woods, Fair, HSG C
17.350	78	Weighted Average
13.815		Pervious Area
3.535		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.4	150	0.0250	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
20.2	950	0.0250	0.79		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
46.8	1,110				Total

Subcatchment E4975: E4975



Subcatchment E5158: E5158

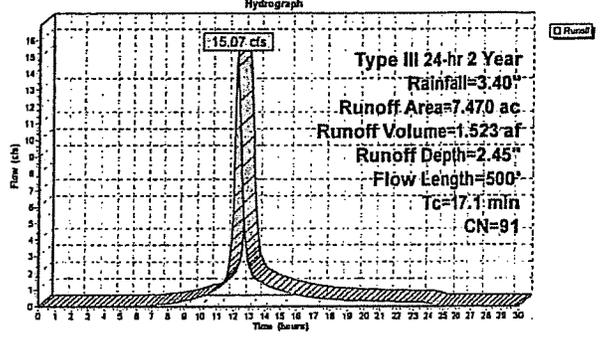
Runoff = 15.07 cfs @ 12.23 hrs, Volume= 1.523 af, Depth= 2.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
1.900	82	Woods/grass comb., Poor, HSG C
5.570	84	Urban commercial, 85% Imp, HSG C
7.470	91	Weighted Average
2.738		Pervious Area
4.735		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.2	150	0.0300	0.22		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
5.9	350	0.0200	0.99		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
17.1	500				Total

Subcatchment E5158: E5158



Subcatchment E5498: E5498

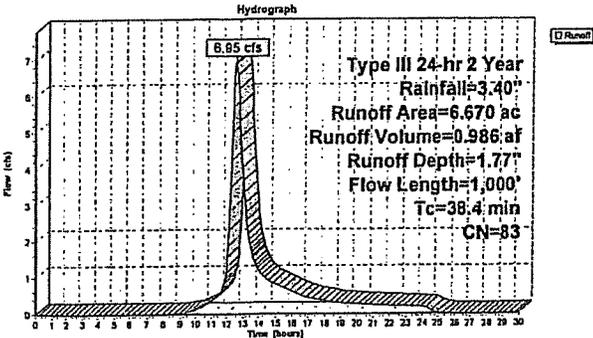
Runoff = 6.95 cfs @ 12.54 hrs, Volume= 0.986 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
2.620	94	Urban commercial, 85% Imp, HSG C
4.050	76	Woods/grass comb., Fair, HSG C
6.670	83	Weighted Average
4.443		Pervious Area
2.227		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.5	150	0.0400	0.17		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
23.9	850	0.0140	0.59		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
38.4	1,000				Total

Subcatchment E5498: E5498



Subcatchment E5909: E5909

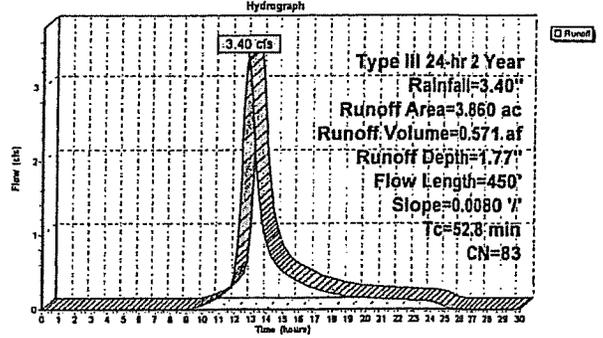
Runoff = 3.40 cfs @ 12.73 hrs, Volume= 0.571 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
1.480	94	Urban commercial, 85% Imp, HSG C
2.380	76	Woods/grass comb., Fair, HSG C
3.860	83	Weighted Average
2.602		Pervious Area
1.258		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
41.6	150	0.0080	0.06		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
11.2	300	0.0080	0.45		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
52.8	450				Total

Subcatchment E5909: E5909



Subcatchment E6369: E6369

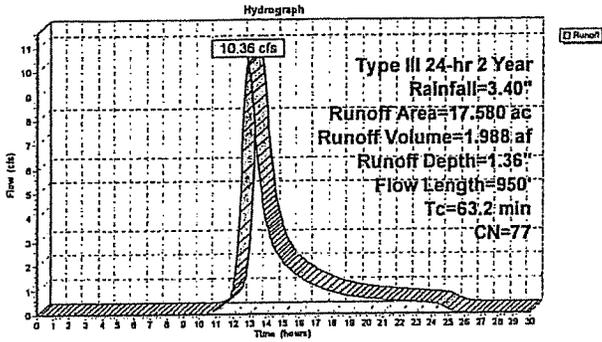
Runoff = 10.36 cfs @ 12.88 hrs, Volume= 1.988 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
8.290	73	Woods, Fair, HSG C
9.290	81	1/3 acre lots, 30% imp, HSG C
17.580	77	Weighted Average
14.793		Pervious Area
2.787		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.5	150	0.0400	0.17		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
48.7	800	0.0030	0.27		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
63.2	950				Total

Subcatchment E6369: E6369



Subcatchment E6821: E6821

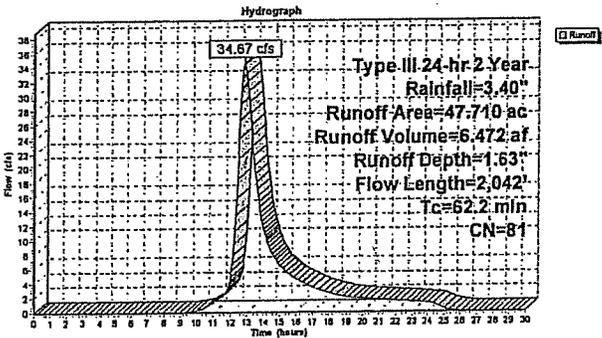
Runoff = 34.67 cfs @ 12.86 hrs, Volume= 6.472 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
8.430	83	1/4 acre lots, 38% imp, HSG C
11.040	81	1/3 acre lots, 30% imp, HSG C
4.790	83	1/4 acre lots, 38% imp, HSG C
9.780	91	Urban Industrial, 72% imp, HSG C
13.670	73	Woods, Fair, HSG C
47.710	81	Weighted Average
32.333		Pervious Area
15.377		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.1	150	0.1000	0.17		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
1.1	100	0.1000	1.58		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
3.1	365	0.0800	1.98		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
5.0	430	0.0090	1.42		Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps
20.0	2.4	200	0.0400	1.40	Direct Entry, Small Detention Pond
2.7	325	0.0180	2.01		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
12.8	472	0.0150	0.61		Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps
					Shallow Concentrated Flow, Woodland Kv= 5.0 fps
62.2	2,042				Total

Subcatchment E6821: E6821



Subcatchment E7473: E7473

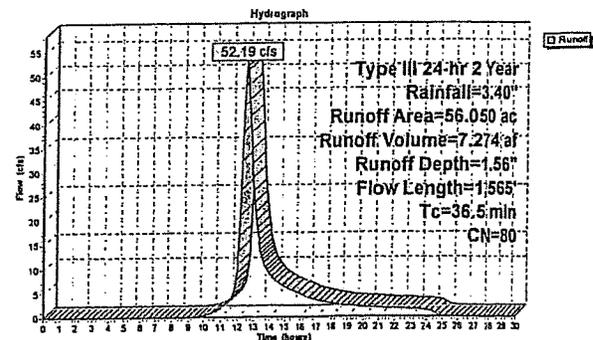
Runoff = 52.19 cfs @ 12.52 hrs, Volume= 7.274 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
5.660	83	1/4 acre lots, 38% imp, HSG C
8.690	81	Urban Industrial, 72% imp, HSG C
16.120	83	1/4 acre lots, 38% imp, HSG C
22.580	73	Woods, Fair, HSG C
56.050	80	Weighted Average
40.037		Pervious Area
16.013		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	200	0.0600	0.31		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
2.9	300	0.0600	1.71		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
22.9	1,065	0.0240	0.77		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
36.5	1,565				Total

Subcatchment E7473: E7473



Subcatchment E8046: E8046

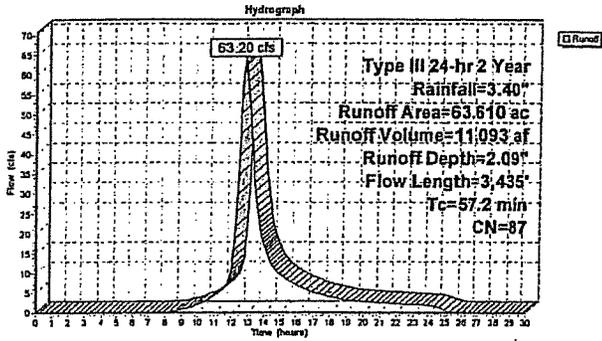
Runoff = 63.20 cfs @ 12.77 hrs, Volume= 11,093 af, Depth= 2.09"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
36.960	91	Urban Industrial, 72% imp, HSG C
2.300	83	1/4 acre lots, 38% imp, HSG C
10.840	94	Urban commercial, 85% imp, HSG C
13.510	70	Brush, Fair, HSG C
63.610	87	Weighted Average
26.911		Pervious Area
36.699		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.5	150	0.0250	0.14		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
15.3	2,275	0.0150	2.49		Shallow Concentrated Flow, Paved Kv= 20.3 fps
24.4	1,010	0.0180	0.69		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
57.2	3,435	Total			

Subcatchment E8046: E8046



Subcatchment E8497: E8497

Subcatchment E8497: E8497

Runoff = 60.02 cfs @ 13.92 hrs, Volume= 19,150 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
15.850	83	1/4 acre lots, 38% imp, HSG C
16.520	81	1/3 acre lots, 30% imp, HSG C
13.150	94	Urban commercial, 85% imp, HSG C
8.270	83	1/4 acre lots, 38% imp, HSG C
7.780	94	Urban commercial, 85% imp, HSG C
0.850	94	Urban commercial, 85% imp, HSG C
5.300	91	Urban Industrial, 72% imp, HSG C
93.700	72	Woods/grass comb., Good, HSG C
161.630	78	Weighted Average
125.027		Pervious Area
36.603		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.5	150	0.0120	0.11		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
9.4	650	0.0270	1.15		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
14.1	700	0.0140	0.83		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
30.0					Direct Entry, Detention Pond
28.8	1,430	0.0140	0.83		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
3.6	400	0.0150	1.84		Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps
15.0					Direct Entry, Small Pond
10.6	1,125	0.0140	1.77		Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps
135.0	4,455	Total			

Subcatchment E9081: E9081

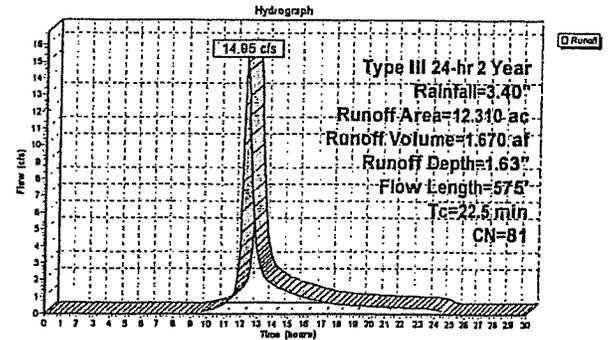
Runoff = 14.95 cfs @ 12.32 hrs, Volume= 1,670 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

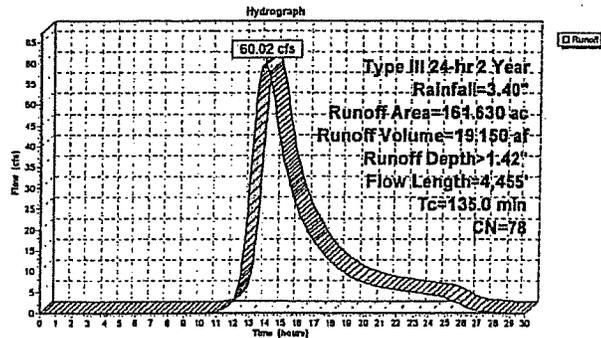
Area (ac)	CN	Description
6.640	70	Brush, Fair, HSG C
5.670	94	Urban commercial, 85% imp, HSG C
12.310	81	Weighted Average
7.491		Pervious Area
4.819		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	150	0.0350	0.24		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
12.0	425	0.0140	0.59		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
22.5	575	Total			

Subcatchment E9081: E9081



Subcatchment E8497: E8497



Subcatchment E9326: E9326

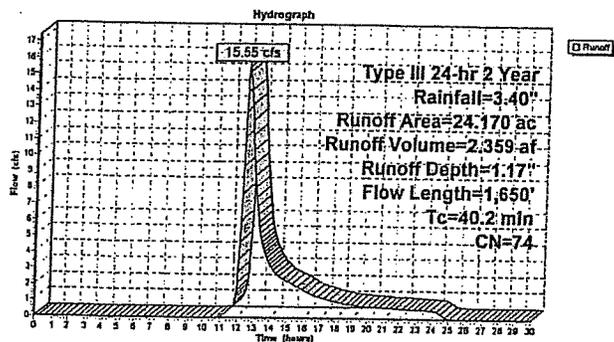
Runoff = 15.55 cfs @ 12.60 hrs, Volume= 2,359 af, Depth= 1.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
4.140	94	Urban commercial, 85% Imp, HSG C
20.030	70	Brush, Fair, HSG C
24.170	74	Weighted Average
20.651		Pervious Area
3.519		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.8	150	0.0240	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
3.4	200	0.0200	0.99		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
10.0	1,300	0.0210	2.17		Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps
40.2	1,650	Total			

Subcatchment E9326: E9326



Subcatchment E9611: E9611

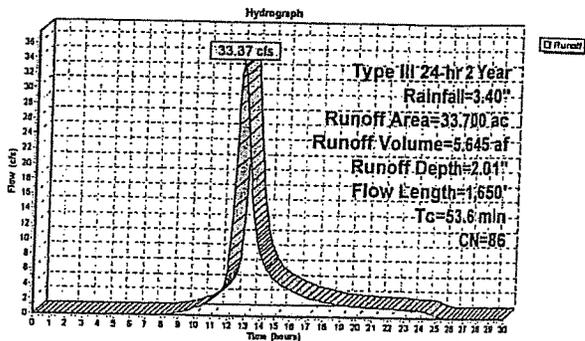
Runoff = 33.37 cfs @ 12.72 hrs, Volume= 5,645 af, Depth= 2.01"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
12.370	72	Woods/grass comb., Good, HSG C
21.330	94	Urban commercial, 85% Imp, HSG C
33.700	86	Weighted Average
15.569		Pervious Area
18.131		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.3	150	0.0300	0.15		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
37.3	1,500	0.0180	0.67		Shallow Concentrated Flow, Two ponds add some time Woodland Kv= 5.0 fps
53.6	1,650	Total			

Subcatchment E9611: E9611



Subcatchment ELB1369: ELB1369

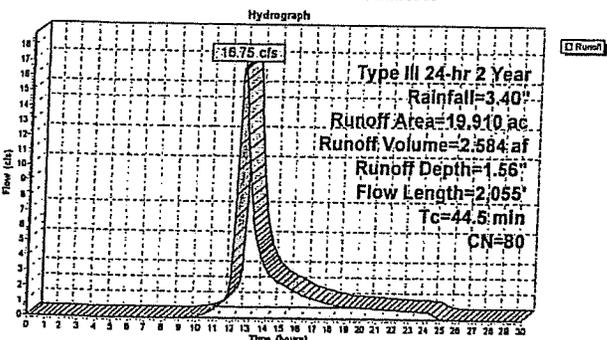
Runoff = 16.75 cfs @ 12.63 hrs, Volume= 2,584 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
17.390	81	1/3 acre lots, 30% Imp, HSG C
2.520	70	Brush, Fair, HSG C
19.910	80	Weighted Average
14.693		Pervious Area
5.217		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.6	150	0.0130	0.16		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
12.0	575	0.0130	0.80		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
16.9	1,330	0.0350	1.31		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
44.5	2,055	Total			

Subcatchment ELB1369: ELB1369



Subcatchment ELB1483: ELB1483

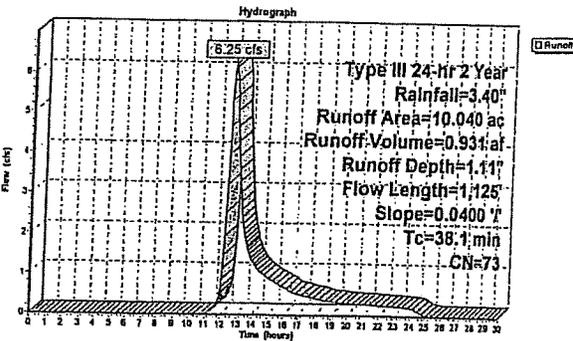
Runoff = 6.25 cfs @ 12.57 hrs, Volume= 0,931 af, Depth= 1.11"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
7.570	70	Brush, Fair, HSG C
2.470	81	1/3 acre lots, 30% Imp, HSG C
10.040	73	Weighted Average
9.299		Pervious Area
0.741		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.8	150	0.0400	0.11		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
16.3	975	0.0400	1.00		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
38.1	1,125	Total			

Subcatchment ELB1483: ELB1483



Subcatchment ELB2128: ELB2128

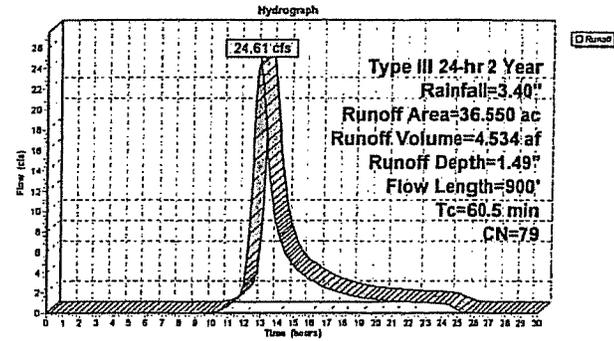
Runoff = 24.81 cfs @ 12.85 hrs, Volume= 4.534 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
6.960	80	1/8 acre lots, 85% imp, HSG C
4.870	60	Woods, Fair, HSG B
4.870	73	Woods, Fair, HSG C
19.850	81	1/3 acre lots, 30% imp, HSG C
36.550	79	Weighted Average
26.071		Pervious Area
10.479		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
50.2	150	0.0200	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 3.40"
10.3	750	0.0590	1.21		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
60.5	900				Total

Subcatchment ELB2128: ELB2128



Subcatchment ELB234: ELB234

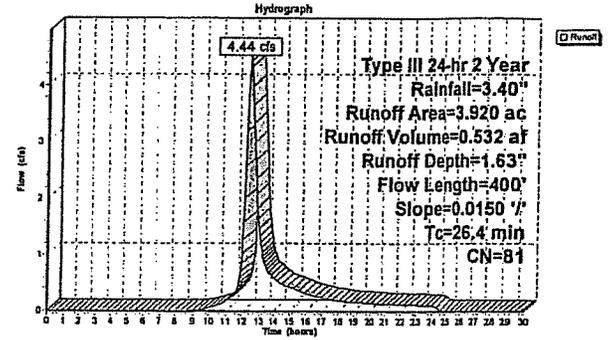
Runoff = 4.44 cfs @ 12.38 hrs, Volume= 0.532 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
3.920	81	1/3 acre lots, 30% imp, HSG C
2.744		Pervious Area
1.176		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.5	150	0.0150	0.12		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
4.9	250	0.0150	0.88		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
26.4	400				Total

Subcatchment ELB234: ELB234



Subcatchment ELB729: ELB729

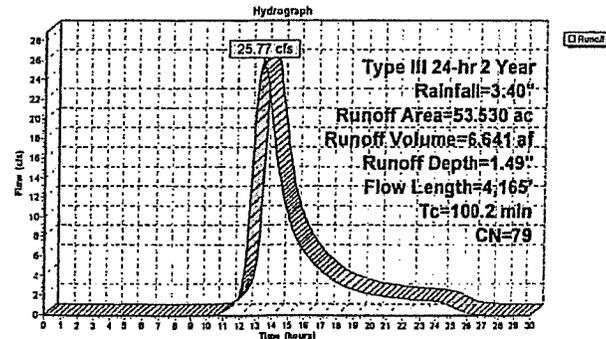
Runoff = 25.77 cfs @ 13.37 hrs, Volume= 6.641 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
11.760	94	Urban commercial, 85% imp, HSG C
26.080	71	Meadow, non-grazed, HSG C
15.690	81	1/3 acre lots, 30% imp, HSG C
53.530	79	Weighted Average
38.827		Pervious Area
14.703		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
33.0	150	0.0020	0.06		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
41.8	1,010	0.0020	0.40		Shallow Concentrated Flow, Cultivated Straight Rows Kv= 9.0 fps
18.9	1,455	0.0040	1.28		Shallow Concentrated Flow, Paved Kv= 20.3 fps
6.5	1,550	0.0380	3.98		Shallow Concentrated Flow, Paved Kv= 20.3 fps
100.2	4,165				Total

Subcatchment ELB729: ELB729



Subcatchment ELB829: ELB829

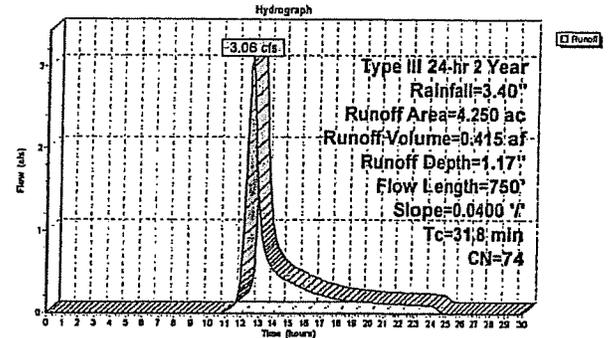
Runoff = 3.06 cfs @ 12.48 hrs, Volume= 0.415 af, Depth= 1.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
0.750	81	1/3 acre lots, 30% imp, HSG C
3.500	73	Woods, Fair, HSG C
4.250	74	Weighted Average
4.025		Pervious Area
0.225		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.8	150	0.0400	0.11		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
10.0	600	0.0400	1.00		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
31.8	750				Total

Subcatchment ELB829: ELB829



Subcatchment ELB972: ELB972

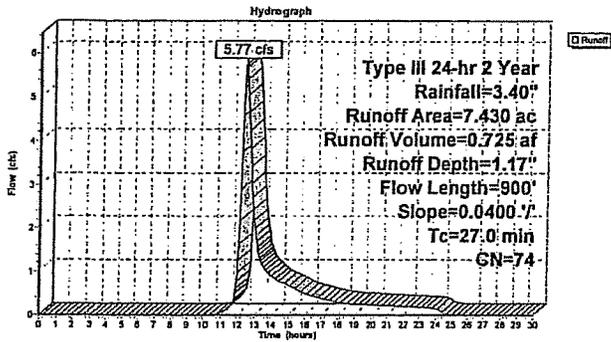
Runoff = 5.77 cfs @ 12.41 hrs, Volume= 0.725 af, Depth= 1.17"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
1.000	81	1/3 acre lots, 30% Imp, HSG C
6.430	73	Woods, Fair, HSG C
7.430	74	Weighted Average
7.130		Pervious Area
0.300		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.5	150	0.0400	0.17		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
12.5	750	0.0400	1.00		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
27.0	900				Total

Subcatchment ELB972: ELB972



Subcatchment W1217: W1217

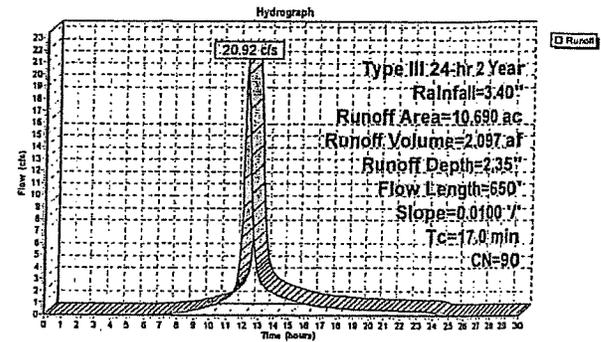
Runoff = 20.92 cfs @ 12.23 hrs, Volume= 2.097 af, Depth= 2.35"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
10.690	90	1/8 acre lots, 65% Imp, HSG C
3.742		Pervious Area
6.949		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.5	100	0.0100	0.13		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
4.5	550	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
17.0	650				Total

Subcatchment W1217: W1217



Subcatchment W1626: W1626

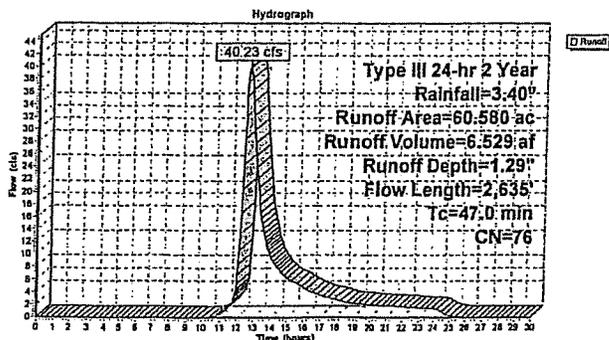
Runoff = 40.23 cfs @ 12.68 hrs, Volume= 6.529 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
20.360	81	1/3 acre lots, 30% Imp, HSG C
40.220	74	>75% Grass cover, Good, HSG C
60.580	78	Weighted Average
54.472		Pervious Area
6.108		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.8	200	0.0230	0.15		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
14.9	950	0.0230	1.06		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
5.4	810	0.0150	2.49		Shallow Concentrated Flow, Paved Kv= 20.3 fps
3.9	675	0.0200	2.87		Shallow Concentrated Flow, Paved Kv= 20.3 fps
47.0	2,635				Total

Subcatchment W1626: W1626



Subcatchment W1737: W1737

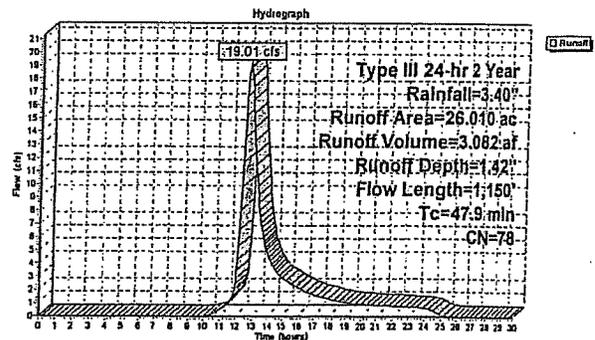
Runoff = 19.01 cfs @ 12.68 hrs, Volume= 3.082 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
18.140	78	Woods/grass comb., Fair, HSG C
7.870	83	1/4 acre lots, 38% Imp, HSG C
26.010	78	Weighted Average
23.019		Pervious Area
2.991		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.4	150	0.0250	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
21.5	1,000	0.0240	0.77		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
47.9	1,150				Total

Subcatchment W1737: W1737



Subcatchment W2720: W2720

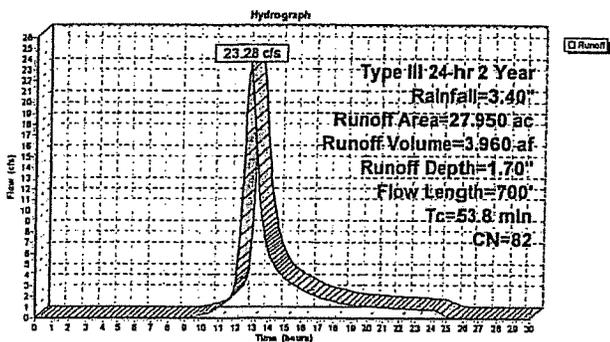
Runoff = 23.28 cfs @ 12.75 hrs, Volume= 3.950 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
3.790	73	Woods, Fair, HSG C
24.160	83	1/4 acre lots, 38% imp, HSG C
27.950	82	Weighted Average
18.769		Pervious Area
9.181		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.3	100	0.0050	0.05		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
17.5	600	0.0130	0.57		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
53.8	700				Total

Subcatchment W2720: W2720



Subcatchment W290: W290

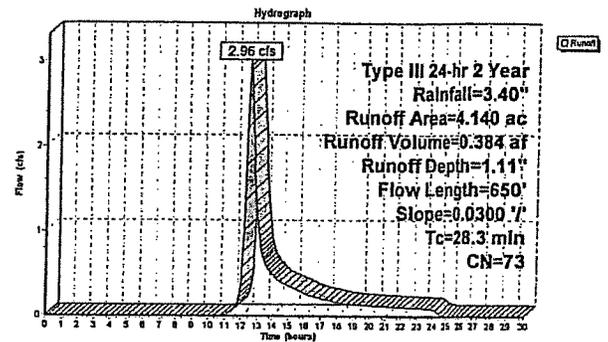
Runoff = 2.96 cfs @ 12.43 hrs, Volume= 0.384 af, Depth= 1.11"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
4.140	73	Woods, Fair, HSG C
4.140		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.7	100	0.0300	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
10.6	550	0.0300	0.87		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
28.3	650				Total

Subcatchment W290: W290



Subcatchment W3148: W3148

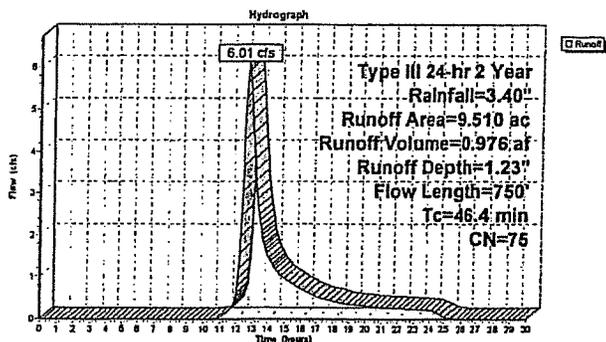
Runoff = 6.01 cfs @ 12.67 hrs, Volume= 0.976 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
2.120	83	1/4 acre lots, 38% imp, HSG C
7.390	73	Woods, Fair, HSG C
9.510	75	Weighted Average
8.704		Pervious Area
0.806		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.4	150	0.0250	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
20.0	600	0.0100	0.50		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
46.4	750				Total

Subcatchment W3148: W3148



Subcatchment W3774: W3774

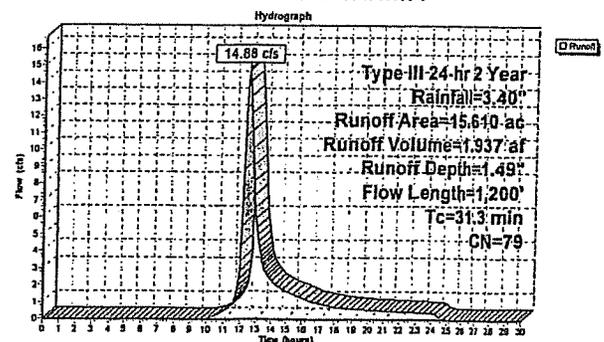
Runoff = 14.88 cfs @ 12.45 hrs, Volume= 1.937 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
1.990	84	Urban commercial, 85% imp, HSG C
8.790	81	1/3 acre lots, 30% imp, HSG C
4.830	70	Brush, Fair, HSG C
15.610	79	Weighted Average
11.282		Pervious Area
4.328		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.3	150	0.0300	0.15		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
8.2	600	0.0300	1.21		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
6.8	450	0.0250	1.11		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
31.3	1,200				Total

Subcatchment W3774: W3774



Subcatchment W3975: W3975

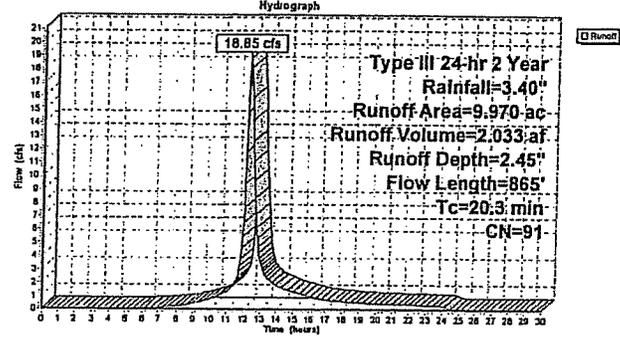
Runoff = 18.85 cfs @ 12.27 hrs, Volume= 2.033 af, Depth= 2.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
9.970	91	Urban Industrial, 72% imp, HSG C
2.792		Pervious Area
7.178		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.0	150	0.0250	0.21		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
8.3	715	0.0080	1.44		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
20.3	865				Total

Subcatchment W3975: W3975



Subcatchment W4529: W4529

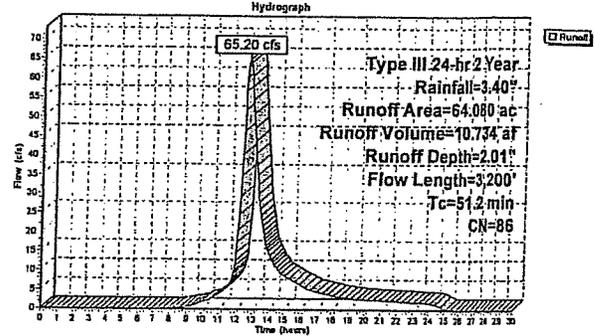
Runoff = 65.20 cfs @ 12.70 hrs, Volume= 10.734 af, Depth= 2.01"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
25.860	94	Urban commercial, 85% imp, HSG C
38.220	81	1/3 acre lots, 30% imp, HSG C
64.080	86	Weighted Average
30.633		Pervious Area
33.447		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.8	200	0.0050	0.12		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
10.2	2,250	0.0130	2.31		Shallow Concentrated Flow, Paved Kv= 20.3 fps
6.2	750	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
51.2	3,200				Total

Subcatchment W4529: W4529



Subcatchment W5128: W5128

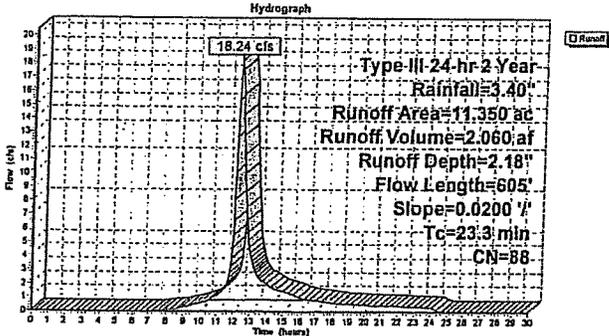
Runoff = 18.24 cfs @ 12.32 hrs, Volume= 2.060 af, Depth= 2.18"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
4.320	83	1/4 acre lots, 38% imp, HSG C
7.030	91	Urban Industrial, 72% imp, HSG C
11.350	88	Weighted Average
4.647		Pervious Area
6.703		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.5	200	0.0200	0.20		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
6.8	405	0.0200	0.99		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
23.3	605				Total

Subcatchment W5128: W5128



Subcatchment W5300: W5300

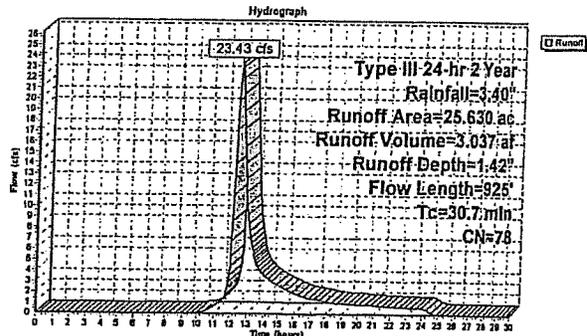
Runoff = 23.43 cfs @ 12.45 hrs, Volume= 3.037 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
14.570	73	Woods, Fair, HSG C
9.680	83	1/4 acre lots, 38% imp, HSG C
1.400	94	Urban commercial, 85% imp, HSG C
25.630	78	Weighted Average
20.769		Pervious Area
4.861		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.6	150	0.0130	0.18		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
15.1	775	0.0150	0.86		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
30.7	925				Total

Subcatchment W5300: W5300



Subcatchment W6008: W6008

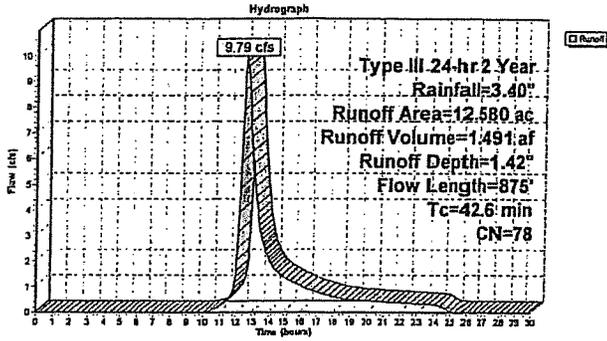
Runoff = 9.79 cfs @ 12.61 hrs, Volume= 1.491 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
6.890	73	Woods, Fair, HSG C
5.690	83	1/4 acre lots, 38% imp, HSG C
12.580	78	Weighted Average
10.418		Pervious Area
2.162		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.9	150	0.0050	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
19.7	725	0.0150	0.61		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
42.6	875				Total

Subcatchment W6008: W6008



Subcatchment W6278: W6278

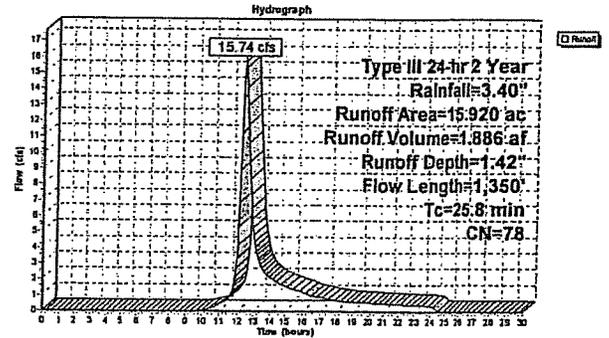
Runoff = 15.74 cfs @ 12.37 hrs, Volume= 1.886 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
7.730	73	Woods, Fair, HSG C
8.190	83	1/4 acre lots, 38% imp, HSG C
15.920	78	Weighted Average
12.608		Pervious Area
3.112		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.0	150	0.0250	0.21		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
4.9	600	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
8.9	600	0.0500	1.12		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
25.8	1,350				Total

Subcatchment W6278: W6278



Subcatchment W6643: W6643

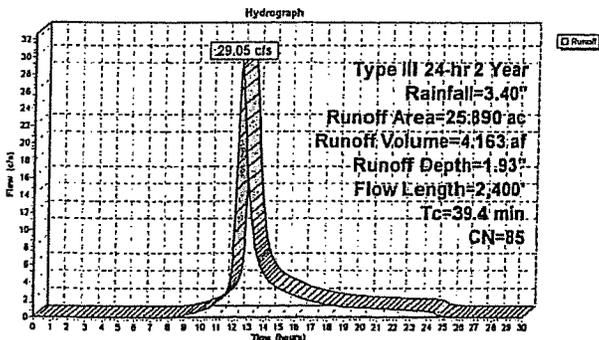
Runoff = 29.05 cfs @ 12.55 hrs, Volume= 4.163 af, Depth= 1.93"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
14.500	85	Pasture/grassland/range, Poor, HSG C
11.390	83	1/4 acre lots, 38% imp, HSG C
25.890	85	Weighted Average
21.562		Pervious Area
4.328		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.6	150	0.0130	0.16		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
11.2	1,500	0.0120	2.22		Shallow Concentrated Flow, Paved Kv= 20.3 fps
12.6	750	0.0200	0.99		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
39.4	2,400				Total

Subcatchment W6643: W6643



Subcatchment W684: W684

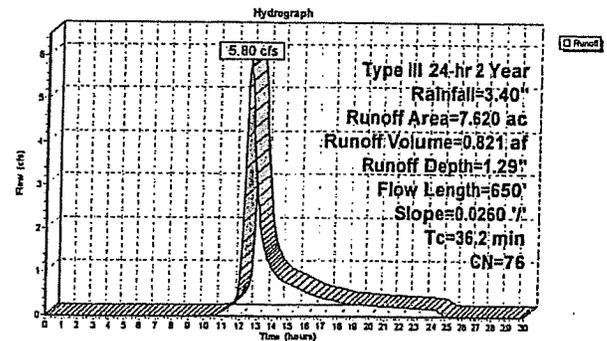
Runoff = 5.80 cfs @ 12.53 hrs, Volume= 0.821 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.40"

Area (ac)	CN	Description
2.420	83	1/4 acre lots, 38% imp, HSG C
5.200	73	Woods, Fair, HSG C
7.620	76	Weighted Average
6.700		Pervious Area
0.920		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.9	150	0.0260	0.10		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
10.3	500	0.0260	0.81		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
36.2	650				Total

Subcatchment W684: W684

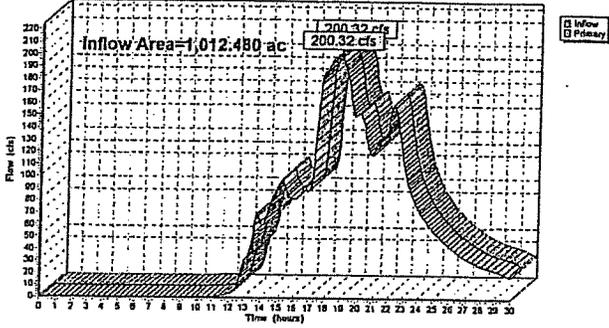


Link 1C: (new Link)

Inflow Area = 1,012.480 ac, Inflow Depth = 1.52" for 2 Year event
 Inflow = 200.32 cfs @ 18.92 hrs, Volume= 128.304 af
 Primary = 200.32 cfs @ 18.92 hrs, Volume= 128.304 af, Atten= 0%, Lag= 0.0 min
 Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 1C: (new Link)

Hydrograph

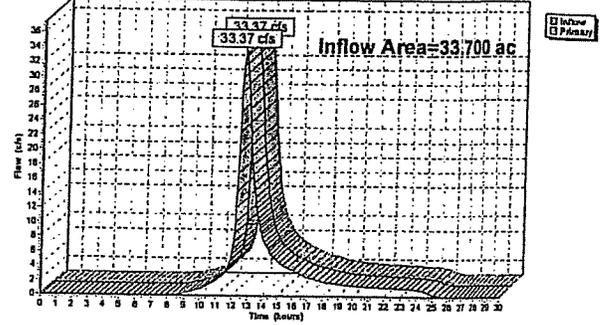


Link 1E: (new Link)

Inflow Area = 33.700 ac, Inflow Depth = 2.01" for 2 Year event
 Inflow = 33.37 cfs @ 12.72 hrs, Volume= 5.645 af
 Primary = 33.37 cfs @ 12.72 hrs, Volume= 5.645 af, Atten= 0%, Lag= 0.0 min
 Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 1E: (new Link)

Hydrograph

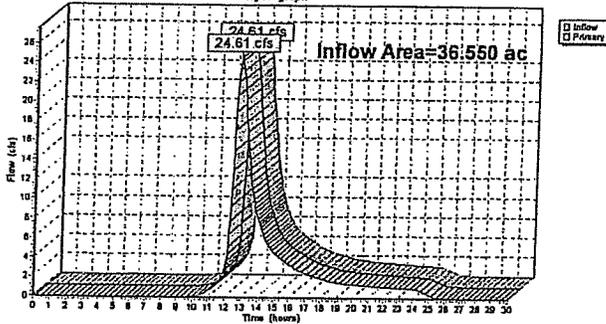


Link 1ELB: (new Link)

Inflow Area = 36.550 ac, Inflow Depth = 1.49" for 2 Year event
 Inflow = 24.61 cfs @ 12.85 hrs, Volume= 4.534 af
 Primary = 24.61 cfs @ 12.85 hrs, Volume= 4.534 af, Atten= 0%, Lag= 0.0 min
 Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 1ELB: (new Link)

Hydrograph

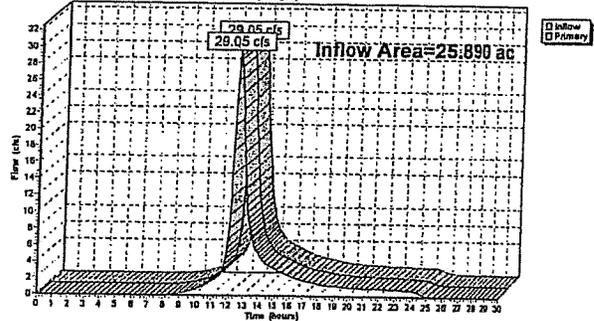


Link 1W: (new Link)

Inflow Area = 25.890 ac, Inflow Depth = 1.93" for 2 Year event
 Inflow = 29.05 cfs @ 12.55 hrs, Volume= 4.163 af
 Primary = 29.05 cfs @ 12.55 hrs, Volume= 4.163 af, Atten= 0%, Lag= 0.0 min
 Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 1W: (new Link)

Hydrograph



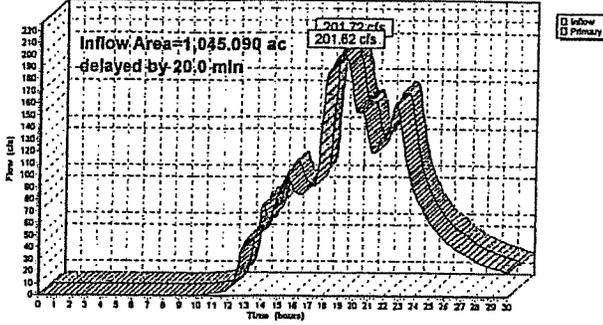
Link 2C: (new Link)

Inflow Area = 1,045.090 ac, Inflow Depth = 1.53" for 2 Year event
 Inflow = 201.72 cfs @ 18.92 hrs, Volume= 132.925 af
 Primary = 201.62 cfs @ 19.25 hrs, Volume= 132.410 af, Atten= 0%, Lag= 19.9 min

Primary outflow = Inflow delayed by 20.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 2C: (new Link)

Hydrograph



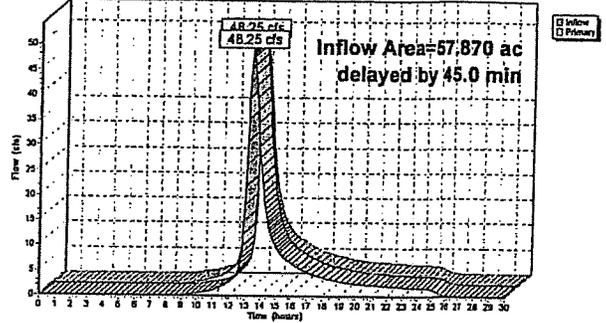
Link 2E: (new Link)

Inflow Area = 57.870 ac, Inflow Depth = 1.66" for 2 Year event
 Inflow = 48.25 cfs @ 12.68 hrs, Volume= 8.004 af
 Primary = 48.25 cfs @ 13.43 hrs, Volume= 8.004 af, Atten= 0%, Lag= 45.0 min

Primary outflow = Inflow delayed by 45.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 2E: (new Link)

Hydrograph



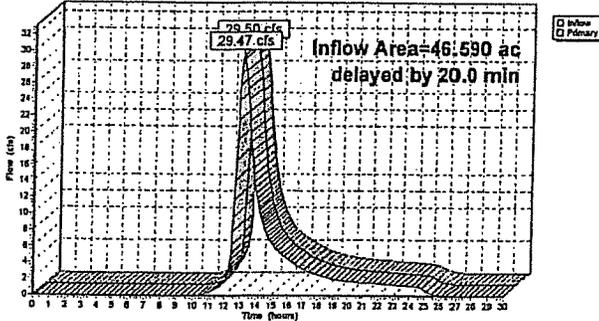
Link 2ELB: (new Link)

Inflow Area = 46.590 ac, Inflow Depth = 1.41" for 2 Year event
 Inflow = 29.50 cfs @ 12.79 hrs, Volume= 5.466 af
 Primary = 29.47 cfs @ 13.12 hrs, Volume= 5.466 af, Atten= 0%, Lag= 20.0 min

Primary outflow = Inflow delayed by 20.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 2ELB: (new Link)

Hydrograph



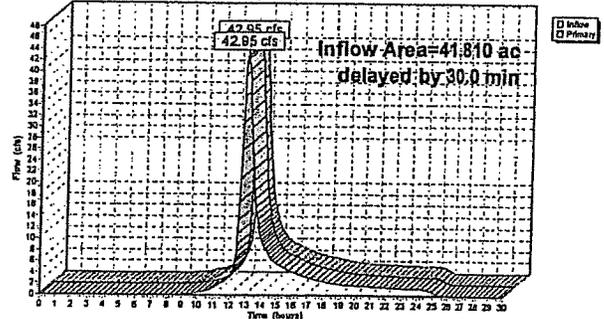
Link 2W: (new Link)

Inflow Area = 41.810 ac, Inflow Depth = 1.74" for 2 Year event
 Inflow = 42.95 cfs @ 12.48 hrs, Volume= 6.049 af
 Primary = 42.95 cfs @ 12.98 hrs, Volume= 6.049 af, Atten= 0%, Lag= 30.0 min

Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 2W: (new Link)

Hydrograph

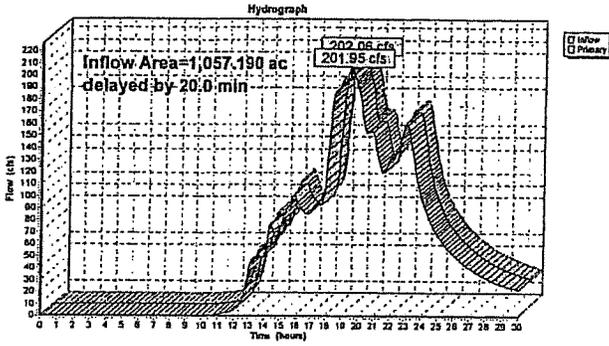


Link 3C: (new Link)

Inflow Area = 1,057.190 ac, Inflow Depth = 1.52' for 2 Year event
 Inflow = 202.08 cfs @ 19.25 hrs, Volume = 133.778 af
 Primary = 201.95 cfs @ 19.58 hrs, Volume = 133.207 af, Atten = 0%, Lag = 20.0 min

Primary outflow = Inflow delayed by 20.0 min, Time Span = 0.00-30.00 hrs, dt = 0.05 hrs

Link 3C: (new Link)

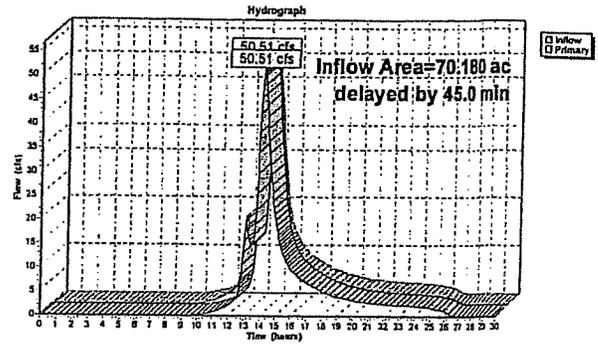


Link 3E: (new Link)

Inflow Area = 70.180 ac, Inflow Depth = 1.65' for 2 Year event
 Inflow = 50.51 cfs @ 13.43 hrs, Volume = 8.674 af
 Primary = 50.51 cfs @ 14.18 hrs, Volume = 8.674 af, Atten = 0%, Lag = 45.0 min

Primary outflow = Inflow delayed by 45.0 min, Time Span = 0.00-30.00 hrs, dt = 0.05 hrs

Link 3E: (new Link)

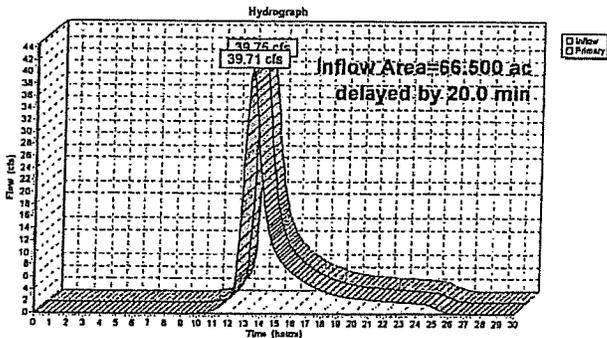


Link 3ELB: (new Link)

Inflow Area = 66.500 ac, Inflow Depth = 1.45' for 2 Year event
 Inflow = 39.75 cfs @ 13.00 hrs, Volume = 8.050 af
 Primary = 39.71 cfs @ 13.34 hrs, Volume = 8.050 af, Atten = 0%, Lag = 20.0 min

Primary outflow = Inflow delayed by 20.0 min, Time Span = 0.00-30.00 hrs, dt = 0.05 hrs

Link 3ELB: (new Link)

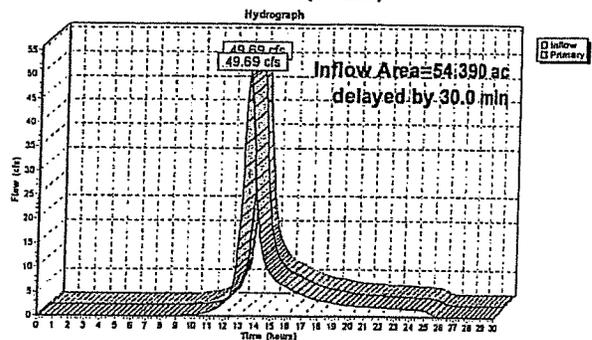


Link 3W: (new Link)

Inflow Area = 54.390 ac, Inflow Depth = 1.66' for 2 Year event
 Inflow = 49.69 cfs @ 12.95 hrs, Volume = 7.540 af
 Primary = 49.69 cfs @ 13.45 hrs, Volume = 7.540 af, Atten = 0%, Lag = 30.0 min

Primary outflow = Inflow delayed by 30.0 min, Time Span = 0.00-30.00 hrs, dt = 0.05 hrs

Link 3W: (new Link)



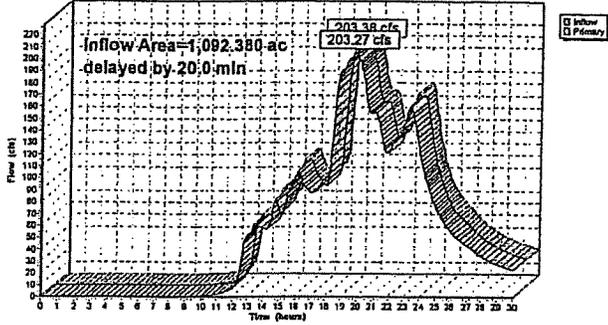
Link 4C: (new Link)

Inflow Area = 1,092.380 ac, Inflow Depth > 1.52" for 2 Year event
 Inflow = 203.38 cfs @ 19.58 hrs, Volume= 138,411 af
 Primary = 203.27 cfs @ 19.91 hrs, Volume= 137,797 af, Atten= 0%, Lag= 20.0 min

Primary outflow = Inflow delayed by 20.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 4C: (new Link)

Hydrograph



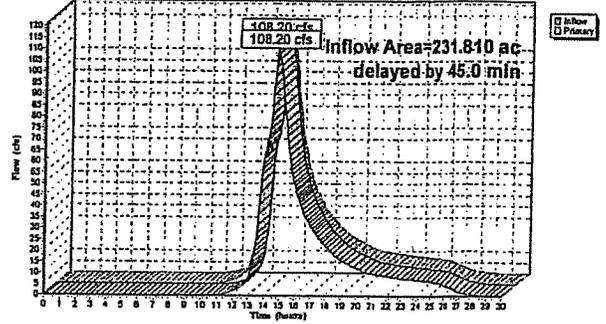
Link 4E: (new Link)

Inflow Area = 231.810 ac, Inflow Depth > 1.49" for 2 Year event
 Inflow = 108.20 cfs @ 14.13 hrs, Volume= 28,824 af
 Primary = 108.20 cfs @ 14.88 hrs, Volume= 28,822 af, Atten= 0%, Lag= 45.0 min

Primary outflow = Inflow delayed by 45.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 4E: (new Link)

Hydrograph



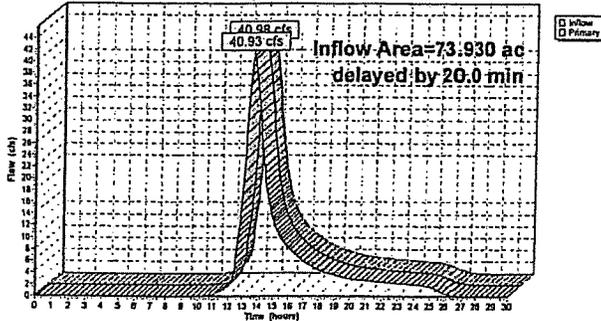
Link 4ELB: (new Link)

Inflow Area = 73.930 ac, Inflow Depth = 1.42" for 2 Year event
 Inflow = 40.98 cfs @ 13.33 hrs, Volume= 8,775 af
 Primary = 40.93 cfs @ 13.66 hrs, Volume= 8,775 af, Atten= 0%, Lag= 20.0 min

Primary outflow = Inflow delayed by 20.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 4ELB: (new Link)

Hydrograph



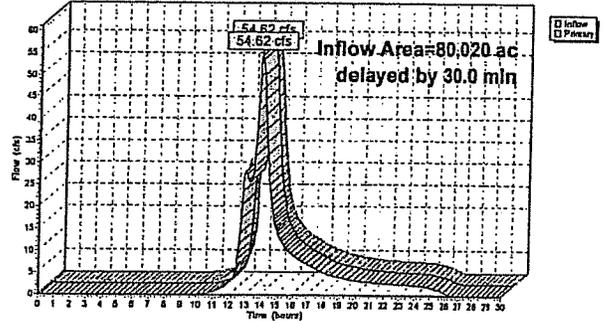
Link 4W: (new Link)

Inflow Area = 80.020 ac, Inflow Depth = 1.59" for 2 Year event
 Inflow = 54.62 cfs @ 13.44 hrs, Volume= 10,577 af
 Primary = 54.62 cfs @ 13.94 hrs, Volume= 10,577 af, Atten= 0%, Lag= 30.0 min

Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 4W: (new Link)

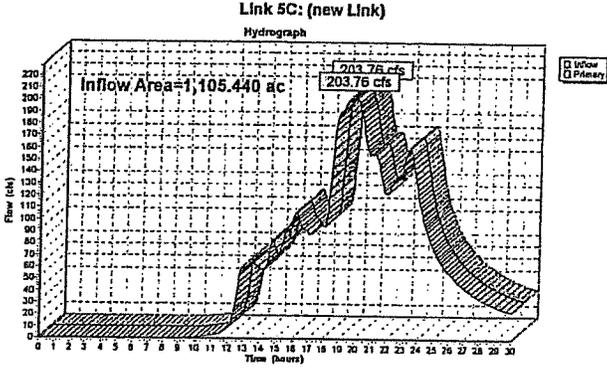
Hydrograph



Link 5C: (new Link)

Inflow Area = 1,105.440 ac, Inflow Depth > 1.51" for 2 Year event
 Inflow = 203.76 cfs @ 19.91 hrs, Volume= 139.417 af
 Primary = 203.76 cfs @ 19.91 hrs, Volume= 139.417 af, Atten= 0%, Lag= 0.0 min

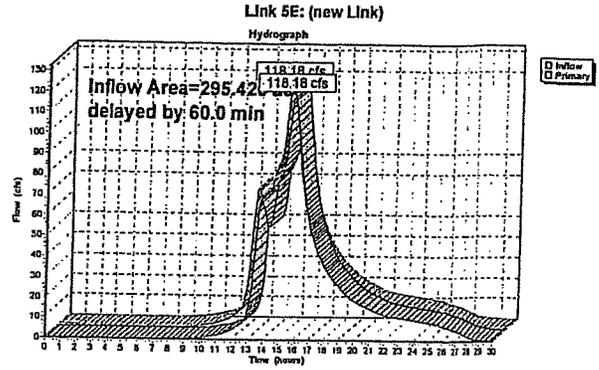
Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs



Link 6E: (new Link)

Inflow Area = 295.420 ac, Inflow Depth > 1.62" for 2 Year event
 Inflow = 118.18 cfs @ 14.67 hrs, Volume= 39.916 af
 Primary = 118.18 cfs @ 15.87 hrs, Volume= 39.909 af, Atten= 0%, Lag= 60.0 min

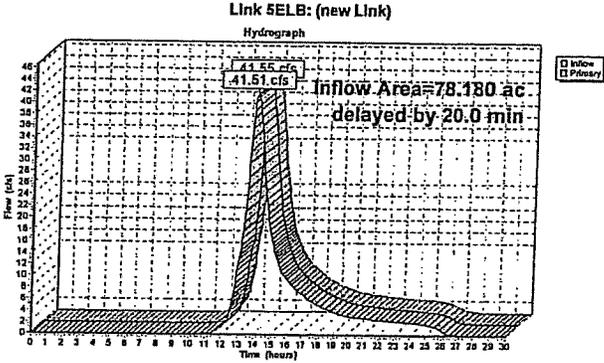
Primary outflow = Inflow delayed by 60.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs



Link 5ELB: (new Link)

Inflow Area = 78.180 ac, Inflow Depth = 1.41" for 2 Year event
 Inflow = 41.55 cfs @ 13.66 hrs, Volume= 9.190 af
 Primary = 41.51 cfs @ 13.99 hrs, Volume= 8.180 af, Atten= 0%, Lag= 20.0 min

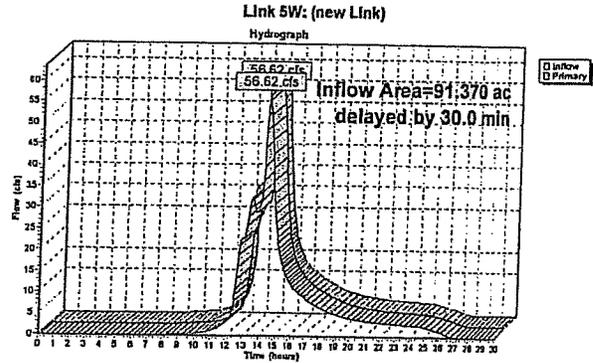
Primary outflow = Inflow delayed by 20.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs



Link 5W: (new Link)

Inflow Area = 91.370 ac, Inflow Depth = 1.65" for 2 Year event
 Inflow = 56.62 cfs @ 13.94 hrs, Volume= 12.636 af
 Primary = 56.62 cfs @ 14.44 hrs, Volume= 12.636 af, Atten= 0%, Lag= 30.0 min

Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs



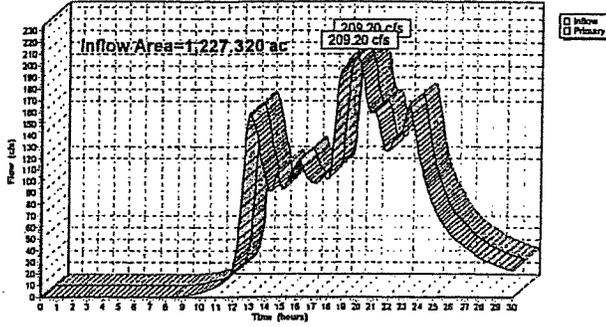
Link 6C: (new Link)

Inflow Area = 1,227.320 ac, Inflow Depth = 1.56" for 2 Year event
 Inflow = 209.20 cfs @ 19.91 hrs, Volume = 159.833 af
 Primary = 209.20 cfs @ 19.91 hrs, Volume = 159.833 af, Atten = 0%, Lag = 0.0 min

Primary outflow = Inflow, Time Span = 0.00-30.00 hrs, dt = 0.05 hrs

Link 6C: (new Link)

Hydrograph



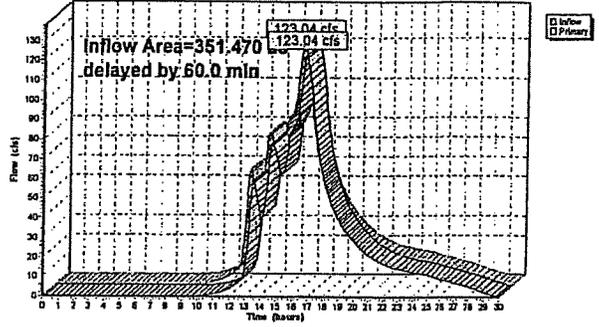
Link 6E: (new Link)

Inflow Area = 351.470 ac, Inflow Depth = 1.61" for 2 Year event
 Inflow = 123.04 cfs @ 15.86 hrs, Volume = 47.163 af
 Primary = 123.04 cfs @ 16.86 hrs, Volume = 47.160 af, Atten = 0%, Lag = 60.0 min

Primary outflow = Inflow delayed by 60.0 min, Time Span = 0.00-30.00 hrs, dt = 0.05 hrs

Link 6E: (new Link)

Hydrograph



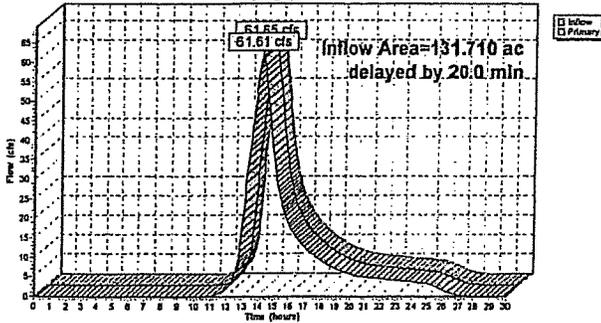
Link 6ELB: (new Link)

Inflow Area = 131.710 ac, Inflow Depth = 1.44" for 2 Year event
 Inflow = 61.61 cfs @ 13.89 hrs, Volume = 15.831 af
 Primary = 61.61 cfs @ 14.22 hrs, Volume = 15.831 af, Atten = 0%, Lag = 20.0 min

Primary outflow = Inflow delayed by 20.0 min, Time Span = 0.00-30.00 hrs, dt = 0.05 hrs

Link 6ELB: (new Link)

Hydrograph



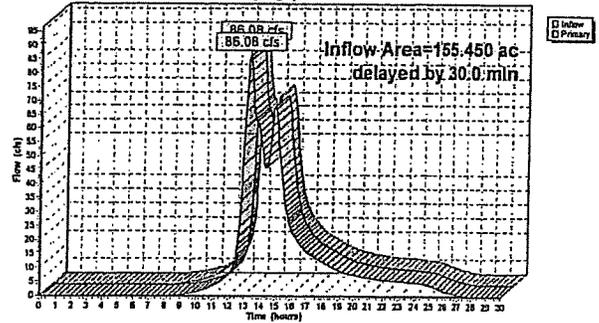
Link 6W: (new Link)

Inflow Area = 155.450 ac, Inflow Depth = 1.80" for 2 Year event
 Inflow = 86.08 cfs @ 12.77 hrs, Volume = 23.370 af
 Primary = 86.08 cfs @ 13.27 hrs, Volume = 23.370 af, Atten = 0%, Lag = 30.0 min

Primary outflow = Inflow delayed by 30.0 min, Time Span = 0.00-30.00 hrs, dt = 0.05 hrs

Link 6W: (new Link)

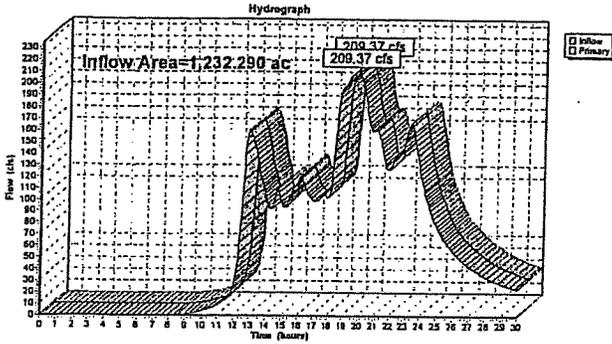
Hydrograph



Link 7C: (new Link)

Inflow Area = 1,232.290 ac, Inflow Depth > 1.58" for 2 Year event
 Inflow = 209.37 cfs @ 19.91 hrs, Volume= 160.395 af
 Primary = 209.37 cfs @ 19.91 hrs, Volume= 160.395 af, Atten= 0%, Lag= 0.0 min
 Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

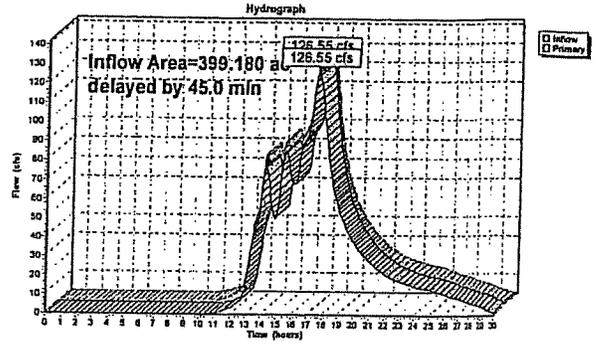
Link 7C: (new Link)



Link 7E: (new Link)

Inflow Area = 399.180 ac, Inflow Depth > 1.61" for 2 Year event
 Inflow = 126.55 cfs @ 16.88 hrs, Volume= 53.633 af
 Primary = 126.55 cfs @ 17.61 hrs, Volume= 53.583 af, Atten= 0%, Lag= 45.0 min
 Primary outflow = Inflow delayed by 45.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

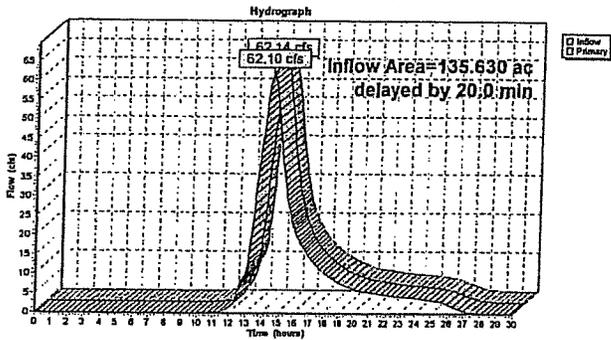
Link 7E: (new Link)



Link 7ELB: (new Link)

Inflow Area = 135.630 ac, Inflow Depth = 1.45" for 2 Year event
 Inflow = 62.14 cfs @ 14.22 hrs, Volume= 18.362 af
 Primary = 62.10 cfs @ 14.55 hrs, Volume= 18.362 af, Atten= 0%, Lag= 20.0 min
 Primary outflow = Inflow delayed by 20.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

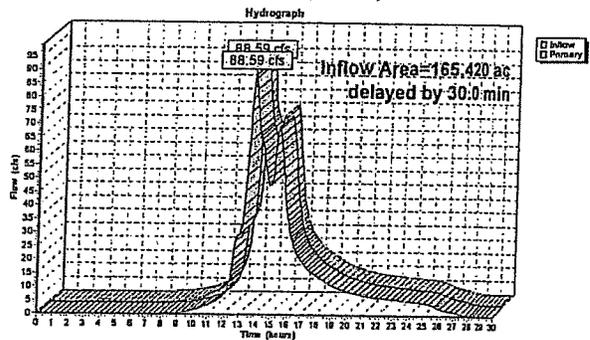
Link 7ELB: (new Link)



Link 7W: (new Link)

Inflow Area = 165.420 ac, Inflow Depth = 1.84" for 2 Year event
 Inflow = 88.59 cfs @ 13.27 hrs, Volume= 25.403 af
 Primary = 88.59 cfs @ 13.77 hrs, Volume= 25.403 af, Atten= 0%, Lag= 30.0 min
 Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 7W: (new Link)

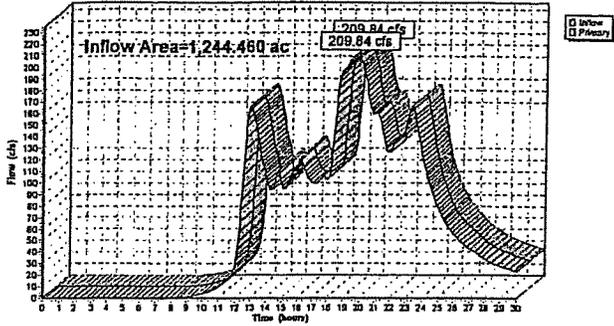


Link 8C: (new Link)

Inflow Area = 1,244.460 ac, Inflow Depth > 1.56" for 2 Year event
 Inflow = 209.84 cfs @ 19.91 hrs, Volume= 162.195 af
 Primary = 209.84 cfs @ 19.91 hrs, Volume= 162.195 af, Atten= 0%, Lag= 0.0 min
 Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 8C: (new Link)

Hydrograph

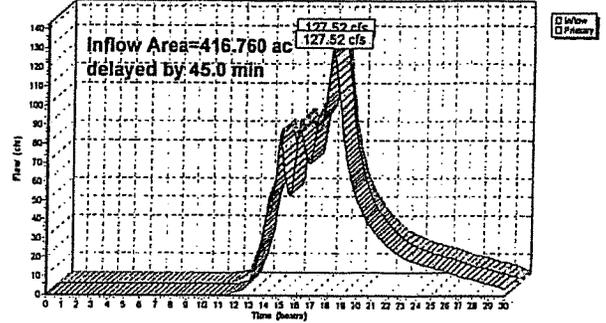


Link 8E: (new Link)

Inflow Area = 416.760 ac, Inflow Depth > 1.60" for 2 Year event
 Inflow = 127.52 cfs @ 17.61 hrs, Volume= 55.571 af
 Primary = 127.52 cfs @ 18.36 hrs, Volume= 55.425 af, Atten= 0%, Lag= 45.0 min
 Primary outflow = Inflow delayed by 45.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 8E: (new Link)

Hydrograph

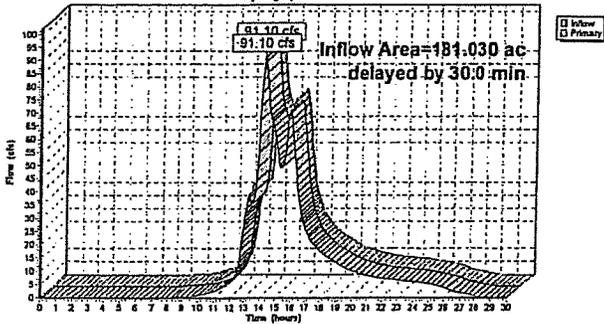


Link 8W: (new Link)

Inflow Area = 181.030 ac, Inflow Depth = 1.81" for 2 Year event
 Inflow = 91.10 cfs @ 13.77 hrs, Volume= 27.339 af
 Primary = 91.10 cfs @ 14.27 hrs, Volume= 27.339 af, Atten= 0%, Lag= 30.0 min
 Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 8W: (new Link)

Hydrograph

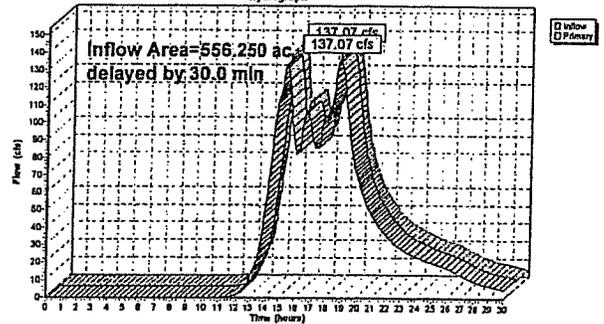


Link 9E: (new Link)

Inflow Area = 556.250 ac, Inflow Depth > 1.56" for 2 Year event
 Inflow = 137.07 cfs @ 18.35 hrs, Volume= 72.358 af
 Primary = 137.07 cfs @ 18.85 hrs, Volume= 72.183 af, Atten= 0%, Lag= 30.0 min
 Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 9E: (new Link)

Hydrograph

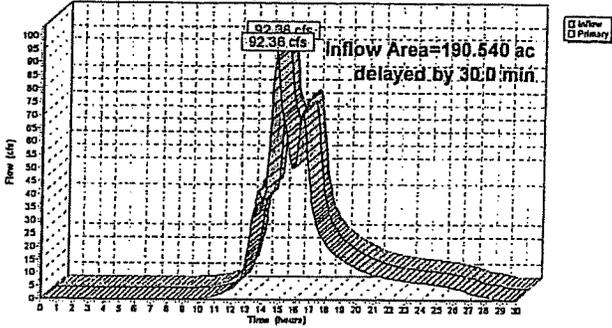


Link 9W: (new Link)

Inflow Area = 190.540 ac, Inflow Depth = 1.78" for 2 Year event
 Inflow = 92.36 cfs @ 14.27 hrs, Volume = 28.315 af
 Primary = 92.36 cfs @ 14.77 hrs, Volume = 28.315 af, Atten= 0%, Lag= 30.0 min
 Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 9W: (new Link)

Hydrograph

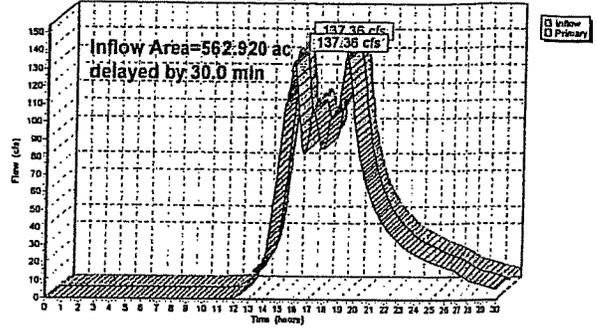


Link 10E: (new Link)

Inflow Area = 562.920 ac, Inflow Depth > 1.56" for 2 Year event
 Inflow = 137.36 cfs @ 18.85 hrs, Volume = 73.170 af
 Primary = 137.36 cfs @ 19.35 hrs, Volume = 72.943 af, Atten= 0%, Lag= 30.0 min
 Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 10E: (new Link)

Hydrograph

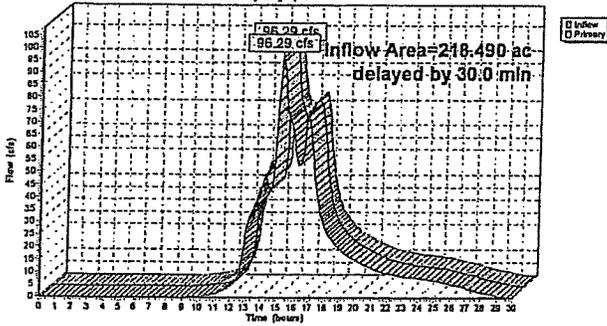


Link 10W: (new Link)

Inflow Area = 218.490 ac, Inflow Depth = 1.77" for 2 Year event
 Inflow = 96.29 cfs @ 14.76 hrs, Volume = 32.276 af
 Primary = 96.29 cfs @ 15.26 hrs, Volume = 32.276 af, Atten= 0%, Lag= 30.0 min
 Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 10W: (new Link)

Hydrograph

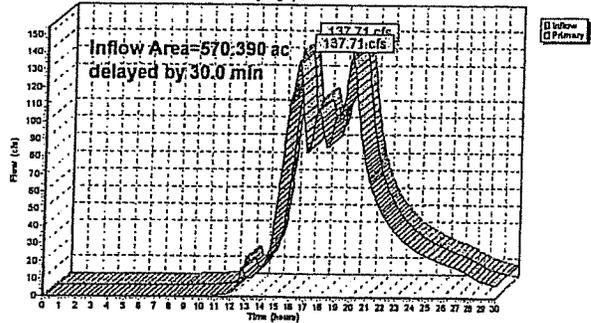


Link 11E: (new Link)

Inflow Area = 570.390 ac, Inflow Depth > 1.57" for 2 Year event
 Inflow = 137.71 cfs @ 18.35 hrs, Volume = 74.466 af
 Primary = 137.71 cfs @ 18.85 hrs, Volume = 74.189 af, Atten= 0%, Lag= 30.0 min
 Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 11E: (new Link)

Hydrograph

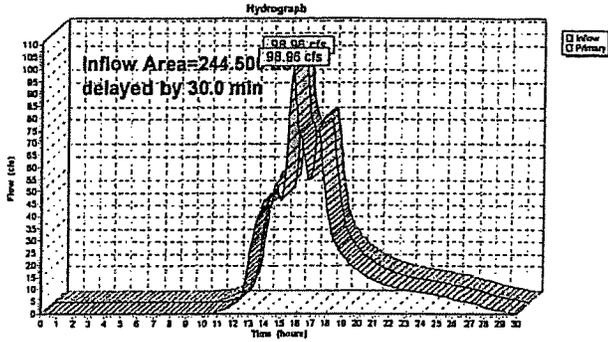


Link 11W: (new Link)

Inflow Area = 244.500 ac, Inflow Depth > 1.74" for 2 Year event
 Inflow = 88.98 cfs @ 15.26 hrs, Volume= 35.357 af
 Primary = 88.96 cfs @ 15.76 hrs, Volume= 35.356 af, Atten= 0%, Lag= 30.0 min

Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 11W: (new Link)

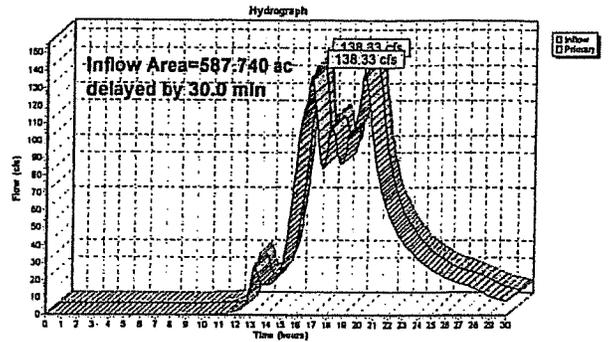


Link 12E: (new Link)

Inflow Area = 587.740 ac, Inflow Depth > 1.56" for 2 Year event
 Inflow = 138.33 cfs @ 19.85 hrs, Volume= 76.255 af
 Primary = 138.33 cfs @ 20.35 hrs, Volume= 75.844 af, Atten= 0%, Lag= 30.0 min

Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 12E: (new Link)

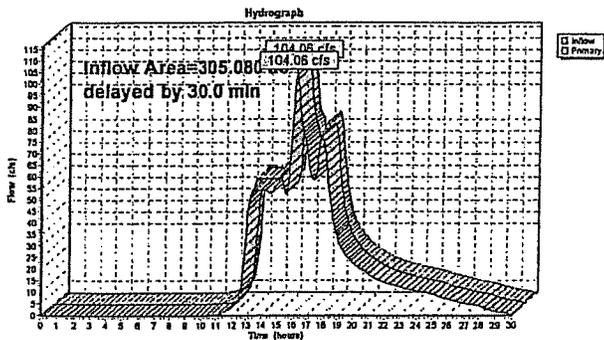


Link 12W: (new Link)

Inflow Area = 305.080 ac, Inflow Depth > 1.65" for 2 Year event
 Inflow = 104.06 cfs @ 15.76 hrs, Volume= 41.885 af
 Primary = 104.06 cfs @ 16.26 hrs, Volume= 41.676 af, Atten= 0%, Lag= 30.0 min

Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 12W: (new Link)

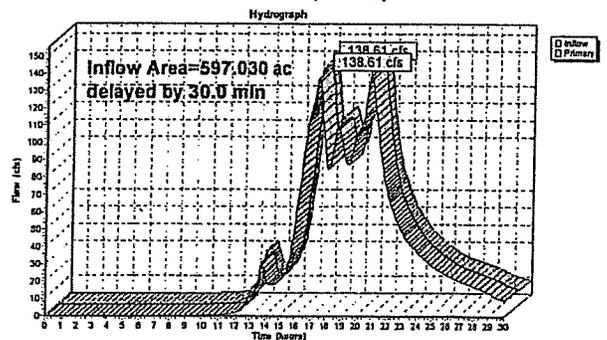


Link 13E: (new Link)

Inflow Area = 597.030 ac, Inflow Depth > 1.54" for 2 Year event
 Inflow = 138.61 cfs @ 20.35 hrs, Volume= 76.651 af
 Primary = 138.61 cfs @ 20.85 hrs, Volume= 76.489 af, Atten= 0%, Lag= 30.0 min

Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

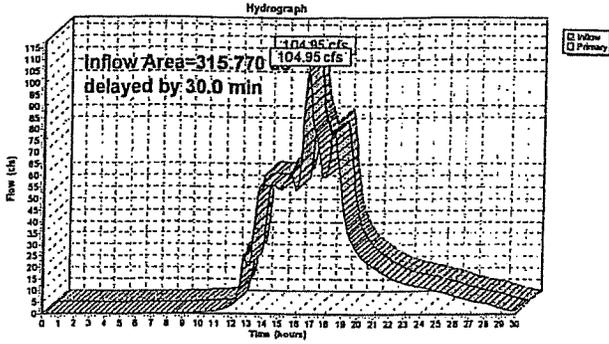
Link 13E: (new Link)



Link 13W: (new Link)

Inflow Area = 315.770 ac, Inflow Depth > 1.67" for 2 Year event
 Inflow = 104.95 cfs @ 16.26 hrs, Volume= 43.974 af
 Primary = 104.95 cfs @ 16.76 hrs, Volume= 43.935 af, Atten= 0%, Lag= 30.0 min
 ry outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

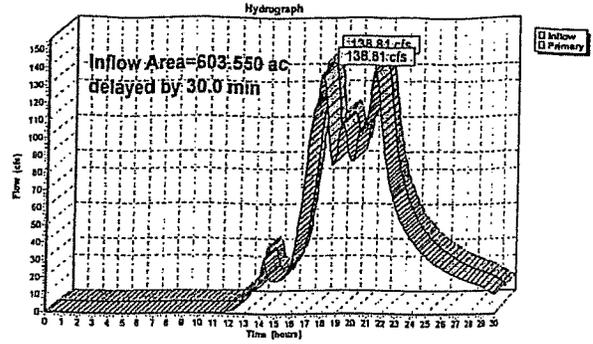
Link 13W: (new Link)



Link 14E: (new Link)

Inflow Area = 603.550 ac, Inflow Depth > 1.54" for 2 Year event
 Inflow = 138.81 cfs @ 20.85 hrs, Volume= 77.227 af
 Primary = 138.81 cfs @ 21.35 hrs, Volume= 76.823 af, Atten= 0%, Lag= 30.0 min
 Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

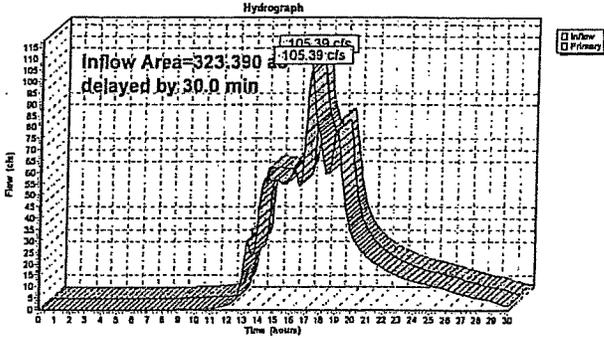
Link 14E: (new Link)



Link 14W: (new Link)

Inflow Area = 323.390 ac, Inflow Depth > 1.66" for 2 Year event
 Inflow = 105.39 cfs @ 16.76 hrs, Volume= 44.756 af
 Primary = 105.39 cfs @ 17.26 hrs, Volume= 44.695 af, Atten= 0%, Lag= 30.0 min
 Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

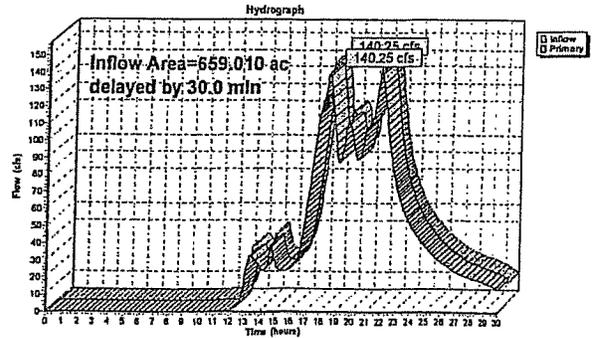
Link 14W: (new Link)



Link 15E: (new Link)

Inflow Area = 659.010 ac, Inflow Depth > 1.46" for 2 Year event
 Inflow = 140.25 cfs @ 21.35 hrs, Volume= 81.448 af
 Primary = 140.25 cfs @ 21.85 hrs, Volume= 80.960 af, Atten= 0%, Lag= 30.0 min
 Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 15E: (new Link)



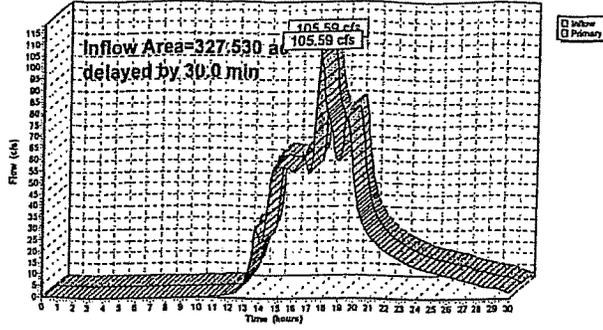
Link 15W: (new Link)

Inflow Area = 327,530 ac, Inflow Depth > 1.65" for 2 Year event
Inflow = 105.59 cfs @ 17.26 hrs, Volume= 45,079 af
Primary = 105.59 cfs @ 17.76 hrs, Volume= 44,991 af, Atten= 0%, Lag= 30.0 min

Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 15W: (new Link)

Hydrograph



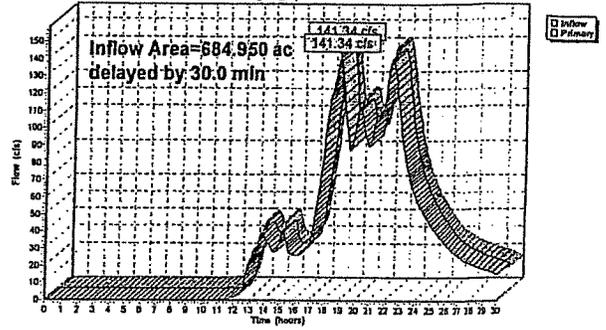
Link 16E: (new Link)

Inflow Area = 684,950 ac, Inflow Depth > 1.47" for 2 Year event
Inflow = 141.34 cfs @ 18.41 hrs, Volume= 83,893 af
Primary = 141.34 cfs @ 18.91 hrs, Volume= 83,313 af, Atten= 0%, Lag= 30.0 min

Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 16E: (new Link)

Hydrograph



10-Year Storm

Time span=0.00-30.00 hrs, dt=0.05 hrs, 601 points
 Runoff by SCS TR-20 method, UH=SCS
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment C116: C116	Runoff Area=4.970 ac Flow Length=450' Tc=25.8 min CN=77 Runoff=8.92 cfs 1.052 af
Subcatchment C1334: C1334	Runoff Area=35.190 ac Flow Length=800' Slope=0.0200' Tc=34.0 min CN=83 Runoff=67.65 cfs 9.125 af
Subcatchment C1748: C1748	Runoff Area=12.100 ac Flow Length=850' Tc=33.5 min CN=77 Runoff=19.30 cfs 2.561 af
Subcatchment C2359: C2359	Runoff Area=32.610 ac Flow Length=1,050' Slope=0.0400' Tc=36.8 min CN=82 Runoff=58.54 cfs 8.125 af
Subcatchment C560: C560	Runoff Area=121.880 ac Flow Length=4,800' Tc=73.9 min CN=85 Runoff=165.56 cfs 34.266 af
Subcatchment C62: (new Subcat)	Runoff Area=12.170 ac Flow Length=2,400' Tc=31.3 min CN=83 Runoff=24.30 cfs 3.127 af
Subcatchment C747: C747	Runoff Area=13.060 ac Flow Length=700' Slope=0.0050' Tc=58.8 min CN=78 Runoff=16.51 cfs 2.958 af
Subcatchment E2964: E2964	Runoff Area=25.940 ac Flow Length=1,460' Slope=0.0400' Tc=35.4 min CN=77 Runoff=40.26 cfs 5.490 af
Subcatchment E3665: E3665	Runoff Area=55.460 ac Flow Length=2,790' Tc=55.8 min CN=71 Runoff=93.22 cfs 9.434 af
Subcatchment E3889: E3889	Runoff Area=6.520 ac Flow Length=650' Tc=22.3 min CN=77 Runoff=12.46 cfs 1.380 af
Subcatchment E4219: E4219	Runoff Area=9.290 ac Flow Length=800' Slope=0.0330' Tc=24.2 min CN=74 Runoff=15.32 cfs 1.769 af
Subcatchment E4975: E4975	Runoff Area=17.350 ac Flow Length=1,110' Slope=0.0250' Tc=46.6 min CN=78 Runoff=24.22 cfs 3.798 af
Subcatchment E5158: E5158	Runoff Area=7.470 ac Flow Length=500' Tc=17.1 min CN=91 Runoff=23.45 cfs 2.410 af
Subcatchment E5498: E5498	Runoff Area=6.670 ac Flow Length=1,000' Tc=38.4 min CN=83 Runoff=12.09 cfs 1.714 af
Subcatchment E5909: E5909	Runoff Area=3.860 ac Flow Length=450' Slope=0.0080' Tc=52.8 min CN=83 Runoff=5.91 cfs 0.992 af

Subcatchment E6389: E6389	Runoff Area=17.580 ac Flow Length=950' Tc=63.2 min CN=77 Runoff=19.94 cfs 3.720 af
Subcatchment E6821: E6821	Runoff Area=47.710 ac Flow Length=2,042' Tc=62.2 min CN=81 Runoff=62.26 cfs 11.519 af
Subcatchment E7473: E7473	Runoff Area=56.050 ac Flow Length=1,565' Tc=36.5 min CN=80 Runoff=94.89 cfs 13.105 af
Subcatchment E8046: E8046	Runoff Area=63.610 ac Flow Length=3,435' Tc=57.2 min CN=87 Runoff=103.91 cfs 18.411 af
Subcatchment E8497: E8497	Runoff Area=161.630 ac Flow Length=4,455' Tc=135.0 min CN=78 Runoff=113.68 cfs 35.383 af
Subcatchment E9081: E9081	Runoff Area=12.310 ac Flow Length=575' Tc=22.5 min CN=81 Runoff=26.76 cfs 2.972 af
Subcatchment E9326: E9326	Runoff Area=24.170 ac Flow Length=1,650' Tc=40.2 min CN=74 Runoff=31.53 cfs 4.602 af
Subcatchment E9611: E9611	Runoff Area=33.700 ac Flow Length=1,650' Tc=53.6 min CN=86 Runoff=55.63 cfs 9.475 af
Subcatchment ELB1369: ELB1369	Runoff Area=19.910 ac Flow Length=2,055' Tc=44.5 min CN=80 Runoff=30.52 cfs 4.655 af
Subcatchment ELB1483: ELB1483	Runoff Area=10.040 ac Flow Length=1,125' Slope=0.0400' Tc=28.5 min CN=73 Runoff=12.92 cfs 1.843 af
Subcatchment ELB2128: ELB2128	Runoff Area=36.550 ac Flow Length=900' Tc=60.5 min CN=79 Runoff=45.59 cfs 8.272 af
Subcatchment ELB234: ELB234	Runoff Area=3.920 ac Flow Length=400' Slope=0.0160' Tc=24.2 min CN=81 Runoff=7.96 cfs 0.846 af
Subcatchment ELB729: ELB729	Runoff Area=53.530 ac Flow Length=4,165' Tc=100.2 min CN=79 Runoff=47.98 cfs 12.115 af
Subcatchment ELB829: ELB829	Runoff Area=4.250 ac Flow Length=750' Slope=0.0400' Tc=27.0 min CN=74 Runoff=6.21 cfs 0.809 af
Subcatchment ELB972: ELB972	Runoff Area=7.430 ac Flow Length=800' Slope=0.0400' Tc=27.0 min CN=74 Runoff=11.68 cfs 1.415 af
Subcatchment W1217: W1217	Runoff Area=10.690 ac Flow Length=650' Slope=0.0100' Tc=17.0 min CN=80 Runoff=32.99 cfs 3.367 af
Subcatchment W1626: W1626	Runoff Area=60.580 ac Flow Length=2,635' Tc=47.0 min CN=76 Runoff=78.36 cfs 12.385 af

Subcatchment W1737: W1737	Runoff Area=26.010 ac Flow Length=1,150' Tc=47.9 min CN=78 Runoff=35.77 cfs 5.694 af
Subcatchment W2720: W2720	Runoff Area=27.950 ac Flow Length=700' Tc=53.8 min CN=82 Runoff=41.11 cfs 6.964 af
Subcatchment W290: W290	Runoff Area=4.140 ac Flow Length=650' Slope=0.0300' Tc=28.3 min CN=73 Runoff=6.12 cfs 0.760 af
Subcatchment W3148: W3148	Runoff Area=9.510 ac Flow Length=750' Tc=46.4 min CN=75 Runoff=11.96 cfs 1.877 af
Subcatchment W3774: W3774	Runoff Area=15.610 ac Flow Length=1,200' Tc=31.3 min CN=79 Runoff=27.50 cfs 3.533 af
Subcatchment W3975: W3975	Runoff Area=9.970 ac Flow Length=865' Tc=20.3 min CN=91 Runoff=29.34 cfs 3.228 af
Subcatchment W4529: W4529	Runoff Area=64.080 ac Flow Length=3,200' Tc=51.2 min CN=85 Runoff=108.51 cfs 18.016 af
Subcatchment W5128: W5128	Runoff Area=11.350 ac Flow Length=605' Slope=0.0200' Tc=29.3 min CN=88 Runoff=29.51 cfs 3.380 af
Subcatchment W5300: W5300	Runoff Area=25.630 ac Flow Length=925' Tc=30.7 min CN=78 Runoff=44.05 cfs 5.611 af
Subcatchment W6008: W6008	Runoff Area=12.580 ac Flow Length=875' Tc=42.6 min CN=78 Runoff=18.42 cfs 2.754 af
Subcatchment W6278: W6278	Runoff Area=15.920 ac Flow Length=1,350' Tc=25.8 min CN=78 Runoff=29.61 cfs 3.485 af
Subcatchment W6643: W6643	Runoff Area=25.890 ac Flow Length=2,400' Tc=39.4 min CN=85 Runoff=48.03 cfs 7.067 af
Subcatchment W684: W684	Runoff Area=7.620 ac Flow Length=650' Slope=0.0260' Tc=38.2 min CN=76 Runoff=11.30 cfs 1.559 af
Link 1C: (new Link)	Inflow=361.96 cfs 230.741 af Primary=361.96 cfs 230.741 af
Link 1E: (new Link)	Inflow=55.83 cfs 9.475 af Primary=55.83 cfs 9.475 af
Link 1ELB: (new Link)	Inflow=45.59 cfs 8.272 af Primary=45.59 cfs 8.272 af
Link 1W: (new Link)	Inflow=49.03 cfs 7.067 af Primary=49.03 cfs 7.067 af

Link 2C: (new Link)	delayed by 20.0 min Inflow=364.17 cfs 238.866 af Primary=363.89 cfs 238.045 af
Link 2E: (new Link)	delayed by 45.0 min Inflow=85.58 cfs 14.077 af Primary=85.58 cfs 14.077 af
Link 2ELB: (new Link)	delayed by 20.0 min Inflow=55.72 cfs 10.114 af Primary=55.68 cfs 10.114 af
Link 2W: (new Link)	delayed by 30.0 min Inflow=75.23 cfs 10.553 af Primary=75.23 cfs 10.553 af
Link 3C: (new Link)	delayed by 20.0 min Inflow=364.73 cfs 240.606 af Primary=364.52 cfs 239.684 af
Link 3E: (new Link)	delayed by 45.0 min Inflow=89.35 cfs 17.049 af Primary=89.35 cfs 17.049 af
Link 3ELB: (new Link)	delayed by 20.0 min Inflow=74.55 cfs 14.770 af Primary=74.78 cfs 14.770 af
Link 3W: (new Link)	delayed by 30.0 min Inflow=87.73 cfs 13.307 af Primary=87.73 cfs 13.307 af
Link 4C: (new Link)	delayed by 20.0 min Inflow=366.76 cfs 248.738 af Primary=366.58 cfs 247.768 af
Link 4E: (new Link)	delayed by 45.0 min Inflow=197.84 cfs 52.431 af Primary=197.84 cfs 52.428 af
Link 4ELB: (new Link)	delayed by 20.0 min Inflow=76.84 cfs 16.184 af Primary=76.75 cfs 16.184 af
Link 4W: (new Link)	delayed by 30.0 min Inflow=96.41 cfs 16.917 af Primary=96.41 cfs 16.917 af
Link 5C: (new Link)	Inflow=367.35 cfs 250.714 af Primary=367.35 cfs 250.714 af
Link 5E: (new Link)	delayed by 60.0 min Inflow=213.45 cfs 70.839 af Primary=213.45 cfs 70.827 af
Link 5ELB: (new Link)	delayed by 20.0 min Inflow=77.89 cfs 16.993 af Primary=77.82 cfs 16.993 af
Link 5W: (new Link)	delayed by 30.0 min Inflow=99.50 cfs 22.298 af Primary=99.50 cfs 22.298 af
Link 6C: (new Link)	Inflow=375.71 cfs 284.980 af Primary=375.71 cfs 284.980 af

Subcatchment C1748: C1748

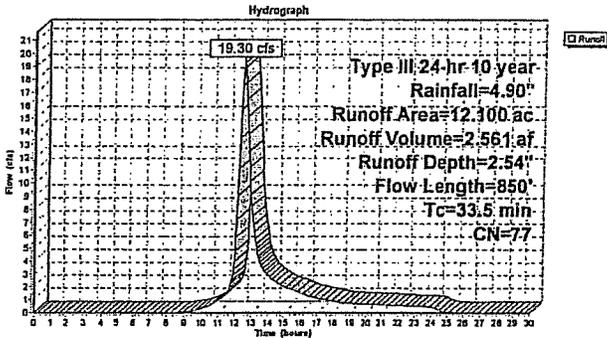
Runoff = 19.30 cfs @ 12.47 hrs, Volume= 2.561 af, Depth= 2.54"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
1.420	94	Urban commercial, 85% imp, HSG C
2.560	83	1/4 acre lots, 38% imp, HSG C
2.020	74	>75% Grass cover, Good, HSG C
3.800	70	Brush, Fair, HSG C
2.500	74	>75% Grass cover, Good, HSG C
12.100	77	Weighted Average
9.920		Pervious Area
2.180		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.0	150	0.0270	0.15		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
6.5	450	0.0270	1.15		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
10.0	250	0.0070	0.42		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
33.5	850				Total

Subcatchment C1748: C1748



Subcatchment C2359: C2359

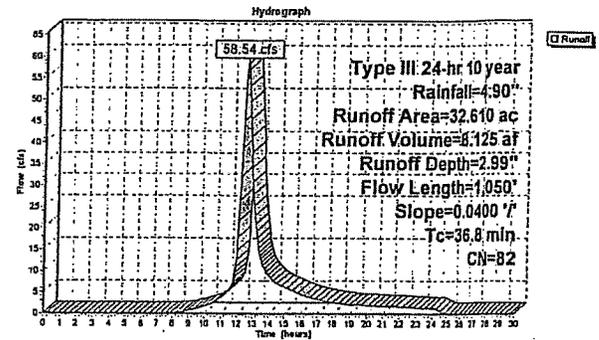
Runoff = 58.54 cfs @ 12.51 hrs, Volume= 8.125 af, Depth= 2.99"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
8.300	91	Urban Industrial, 72% imp, HSG C
2.000	77	Brush, Fair, HSG D
7.540	70	Brush, Fair, HSG C
14.770	83	1/4 acre lots, 38% imp, HSG C
32.610	82	Weighted Average
21.021		Pervious Area
11.589		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.8	150	0.0400	0.11		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
15.0	900	0.0400	1.00		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
38.8	1,050				Total

Subcatchment C2359: C2359



Subcatchment C560: C560

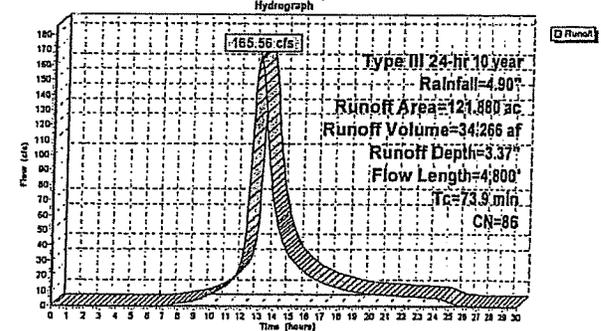
Runoff = 165.56 cfs @ 12.98 hrs, Volume= 34.286 af, Depth= 3.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

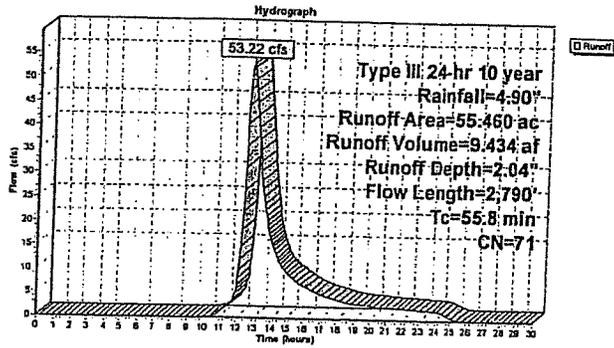
Area (ac)	CN	Description
19.710	94	Urban commercial, 85% imp, HSG C
1.910	74	>75% Grass cover, Good, HSG C
1.250	73	Woods, Fair, HSG C
2.630	74	>75% Grass cover, Good, HSG C
7.880	70	1/2 acre lots, 25% imp, HSG B
9.050	60	Woods, Fair, HSG B
79.440	90	1/8 acre lots, 85% imp, HSG C
121.880	86	Weighted Average
51.520		Pervious Area
70.360		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.1	200	0.0380	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
14.5	850	0.0380	0.97		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
2.9	225	0.0350	1.31		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
8.1	1,700	0.0300	3.52		Shallow Concentrated Flow, Paved Kv= 20.3 fps
6.7	1,100	0.0180	2.72		Shallow Concentrated Flow, Paved Kv= 20.3 fps
3.5	300	0.0050	1.44		Shallow Concentrated Flow, Paved Kv= 20.3 fps
10.1	425	0.0100	0.70		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
73.9	4,800				Total

Subcatchment C560: C560



Subcatchment E3568: E3568



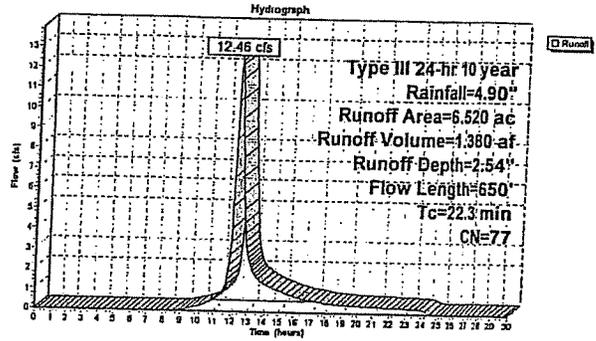
Subcatchment E3889: E3889

Runoff = 12.46 cfs @ 12.31 hrs, Volume= 1.380 af, Depth= 2.54"
 Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
2.290	83	1/4 acre lots, 38% Imp, HSG C
4.230	74	>75% Grass cover, Good, HSG C
6.520	77	Weighted Average
5.650		Pervious Area
0.870		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.3	150	0.0300	0.15		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
6.0	500	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
22.3	650				Total

Subcatchment E3889: E3889



Subcatchment E4219: E4219

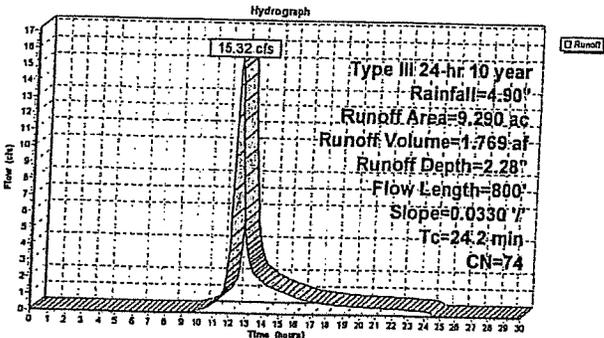
Runoff = 15.32 cfs @ 12.35 hrs, Volume= 1.769 af, Depth= 2.28"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
9.290	74	>75% Grass cover, Good, HSG C
9.290		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.7	150	0.0330	0.16		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
8.5	650	0.0330	1.27		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
24.2	800				Total

Subcatchment E4219: E4219



Subcatchment E4976: E4976

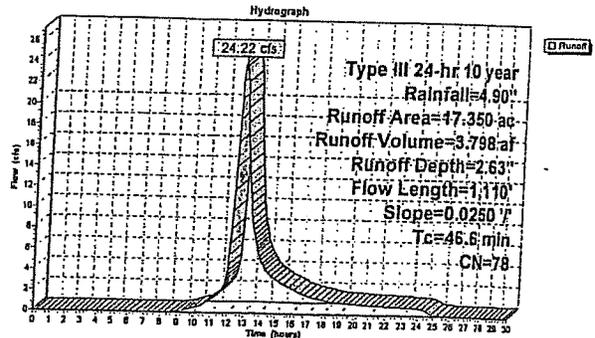
Runoff = 24.22 cfs @ 12.65 hrs, Volume= 3.798 af, Depth= 2.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
4.910	91	Urban Industrial, 72% Imp, HSG C
12.440	73	Woods, Fair, HSG C
17.350	78	Weighted Average
13.815		Pervious Area
3.535		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.4	150	0.0250	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
20.2	960	0.0250	0.79		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
46.6	1,110				Total

Subcatchment E4976: E4976



Subcatchment E6821: E6821

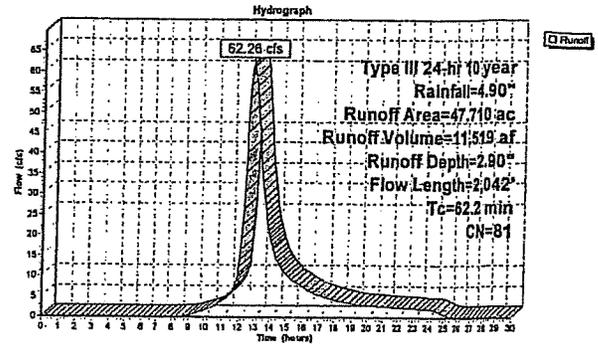
Runoff = 62.26 cfs @ 12.83 hrs, Volume= 11,519 af, Depth= 2.90"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
8.430	83	1/4 acre lots, 38% imp, HSG C
11.040	81	1/3 acre lots, 30% imp, HSG C
4.780	83	1/4 acre lots, 38% imp, HSG C
9.780	91	Urban Industrial, 72% imp, HSG C
13.670	73	Woods, Fair, HSG C
47.710	81	Weighted Average
32.333		Pervious Area
15.377		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.1	150	0.1000	0.17		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
1.1	100	0.1000	1.58		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
3.1	365	0.0600	1.98		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
5.0	430	0.0090	1.42		Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps
20.0					Direct Entry, Small Detention Pond
2.4	200	0.0400	1.40		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
2.7	325	0.0180	2.01		Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps
12.8	472	0.0150	0.61		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
62.2	2,042				Total

Subcatchment E6821: E6821



Subcatchment E7473: E7473

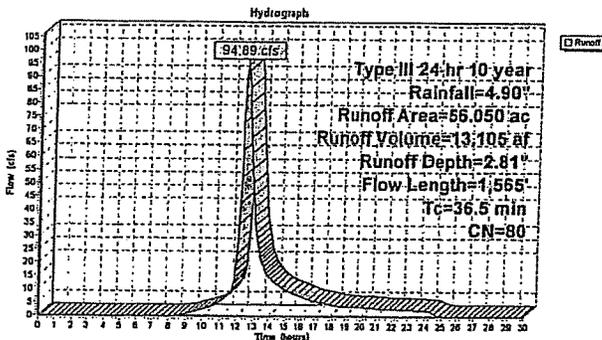
Runoff = 94.89 cfs @ 12.51 hrs, Volume= 13,105 af, Depth= 2.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
5.660	83	1/4 acre lots, 38% imp, HSG C
9.690	91	Urban industrial, 72% imp, HSG C
18.120	83	1/4 acre lots, 38% imp, HSG C
22.580	73	Woods, Fair, HSG C
56.050	80	Weighted Average
40.037		Pervious Area
16.013		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	200	0.0500	0.31		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
2.9	300	0.0600	1.71		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
22.9	1,065	0.0240	0.77		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
36.5	1,565				Total

Subcatchment E7473: E7473



Subcatchment E8046: E8046

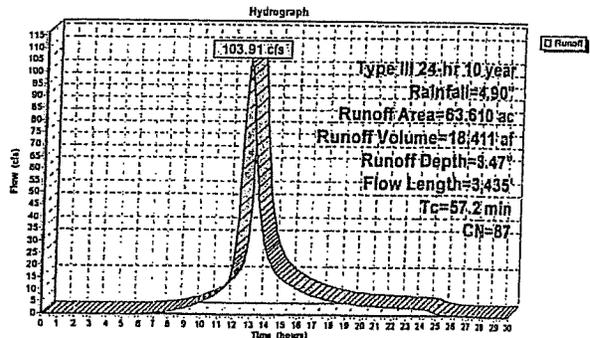
Runoff = 103.91 cfs @ 12.76 hrs, Volume= 18,411 af, Depth= 3.47"

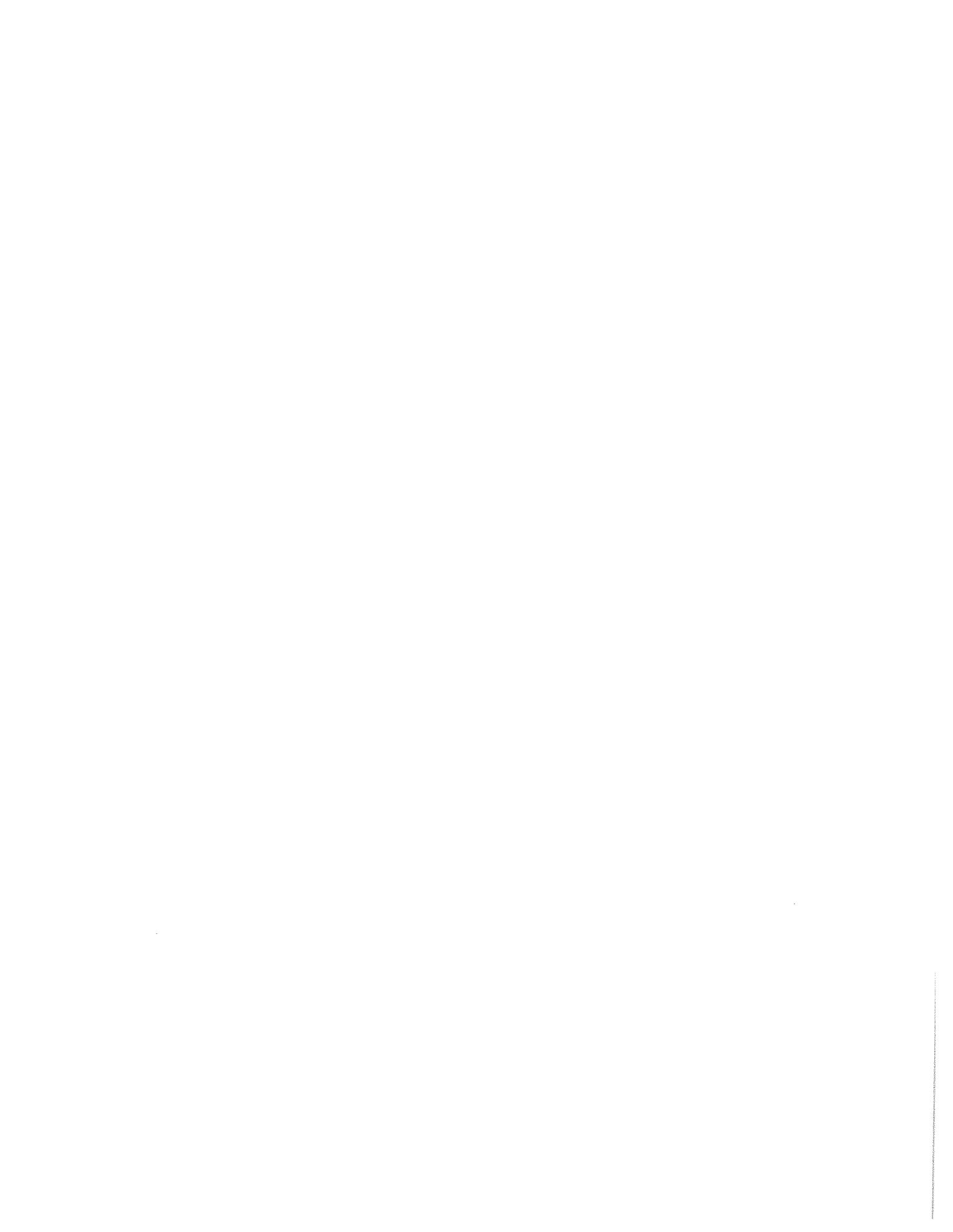
Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
36.990	91	Urban Industrial, 72% imp, HSG C
2.300	83	1/4 acre lots, 38% imp, HSG C
10.840	94	Urban commercial, 85% imp, HSG C
13.510	70	Brush, Fair, HSG C
63.610	87	Weighted Average
28.911		Pervious Area
36.699		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.5	150	0.0250	0.14		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
15.3	2,275	0.0150	2.49		Shallow Concentrated Flow, Paved Kv= 20.3 fps
24.4	1,010	0.0190	0.69		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
57.2	3,435				Total

Subcatchment E8046: E8046





Subcatchment E9611: E9611

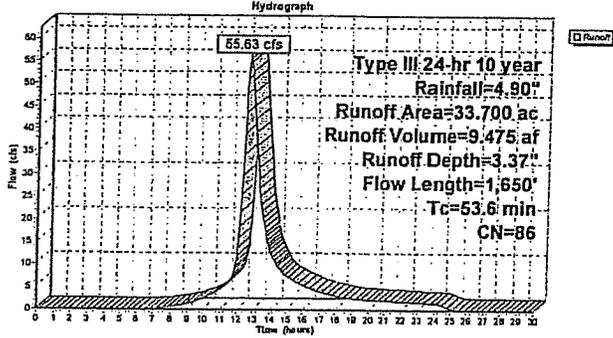
Runoff = 55.63 cfs @ 12.71 hrs, Volume= 9.475 af, Depth= 3.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
12.370	72	Woods/grass comb., Good, HSG C
21.330	94	Urban commercial, 85% Imp, HSG C
33.700	86	Weighted Average
15.569		Pervious Area
18.131		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.3	150	0.0300	0.15		Sheet Flow, Grass; Dense n= 0.240 P2= 3.40"
37.3	1,500	0.0180	0.67		Shallow Concentrated Flow, Two ponds add some Time Woodland Kv= 5.0 fps
53.6	1,650				Total

Subcatchment E9611: E9611



Subcatchment ELB1369: ELB1369

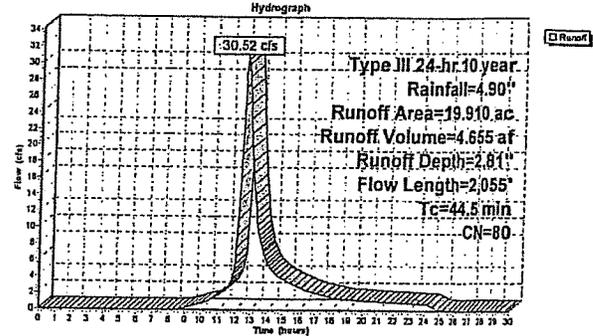
Runoff = 30.52 cfs @ 12.61 hrs, Volume= 4.655 af, Depth= 2.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
17.390	81	1/3 acre lots, 30% Imp, HSG C
2.520	70	Brush, Fair, HSG C
19.910	80	Weighted Average
14.693		Pervious Area
5.217		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.6	150	0.0130	0.16		Sheet Flow, Grass; Short n= 0.150 P2= 3.40"
12.0	575	0.0130	0.80		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
16.9	1,330	0.0350	1.31		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
44.5	2,055				Total

Subcatchment ELB1369: ELB1369



Subcatchment ELB1483: ELB1483

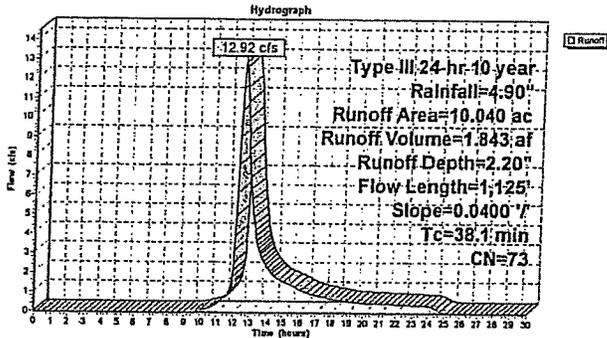
Runoff = 12.92 cfs @ 12.55 hrs, Volume= 1.843 af, Depth= 2.20"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
7.570	70	Brush, Fair, HSG C
2.470	81	1/3 acre lots, 30% Imp, HSG C
10.040	73	Weighted Average
9.299		Pervious Area
0.741		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.8	150	0.0400	0.11		Sheet Flow, Woods; Light underbrush n= 0.400 P2= 3.40"
16.3	975	0.0400	1.00		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
38.1	1,125				Total

Subcatchment ELB1483: ELB1483



Subcatchment ELB2128: ELB2128

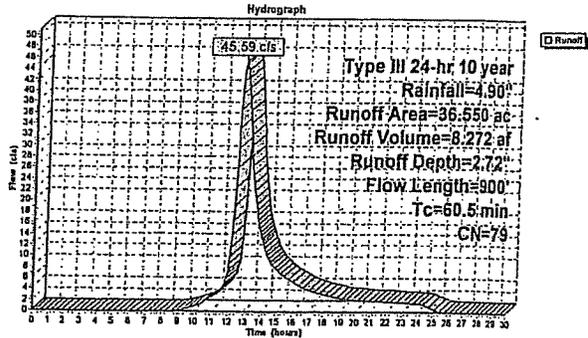
Runoff = 45.59 cfs @ 12.83 hrs, Volume= 8.272 af, Depth= 2.72"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
6.950	90	1/8 acre lots, 65% Imp, HSG C
4.870	60	Woods, Fair, HSG B
4.870	73	Woods, Fair, HSG C
19.850	81	1/3 acre lots, 30% Imp, HSG C
36.550	79	Weighted Average
26.071		Pervious Area
10.479		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
50.2	150	0.0200	0.05		Sheet Flow, Woods; Dense underbrush n= 0.800 P2= 3.40"
10.3	750	0.0590	1.21		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
60.5	900				Total

Subcatchment ELB2128: ELB2128





Subcatchment W1217: W1217

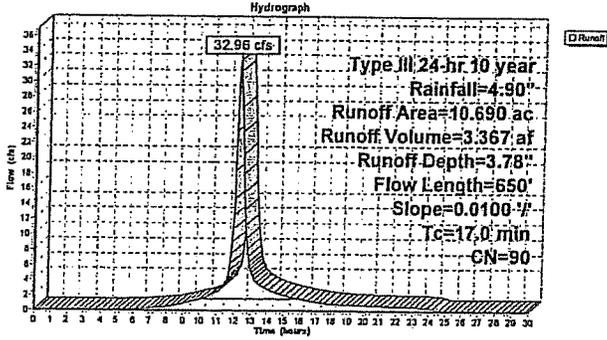
Runoff = 32.96 cfs @ 12.23 hrs, Volume= 3.367 af, Depth= 3.78"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
10.690	90	1/8 acre lots, 65% Imp, HSG C
3.742		Pervious Area
6.948		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.5	100	0.0100	0.13		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
4.5	550	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
17.0	650				Total

Subcatchment W1217: W1217



Subcatchment W1626: W1626

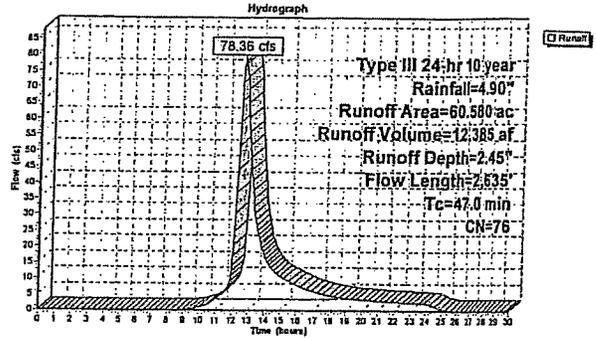
Runoff = 78.36 cfs @ 12.66 hrs, Volume= 12.385 af, Depth= 2.45"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
20.360	81	1/3 acre lots, 30% Imp, HSG C
40.220	74	>75% Grass cover, Good, HSG C
60.580	76	Weighted Average
54.472		Pervious Area
6.108		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.8	200	0.0230	0.15		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
14.9	950	0.0230	1.06		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
5.4	810	0.0150	2.49		Shallow Concentrated Flow, Paved Kv= 20.3 fps
3.9	675	0.0200	2.87		Shallow Concentrated Flow, Paved Kv= 20.3 fps
47.0	2,635				Total

Subcatchment W1626: W1626



Subcatchment W1737: W1737

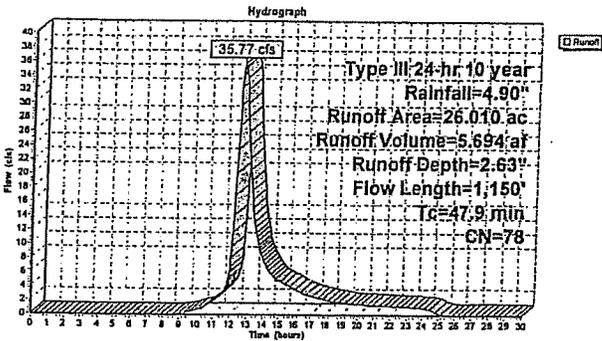
Runoff = 35.77 cfs @ 12.68 hrs, Volume= 5.694 af, Depth= 2.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
18.140	76	Woods/grass comb., Fair, HSG C
7.870	83	1/4 acre lots, 38% Imp, HSG C
26.010	78	Weighted Average
23.018		Pervious Area
2.991		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.4	150	0.0250	0.09		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
21.5	1,000	0.0240	0.77		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
47.9	1,150				Total

Subcatchment W1737: W1737



Subcatchment W2720: W2720

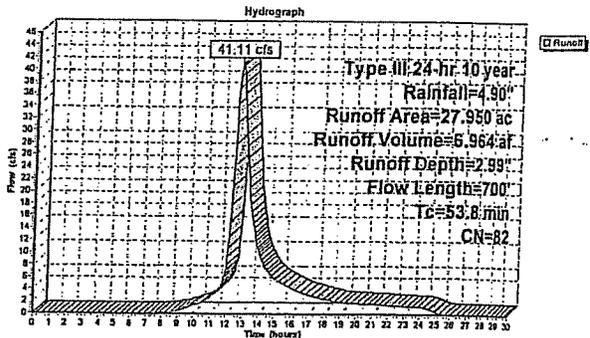
Runoff = 41.11 cfs @ 12.73 hrs, Volume= 6.964 af, Depth= 2.99"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
3.790	73	Woods, Fair, HSG C
24.160	83	1/4 acre lots, 38% Imp, HSG C
27.950	82	Weighted Average
18.769		Pervious Area
9.181		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.3	100	0.0050	0.05		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
17.5	600	0.0130	0.57		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
53.8	700				Total

Subcatchment W2720: W2720



Subcatchment W4529: W4529

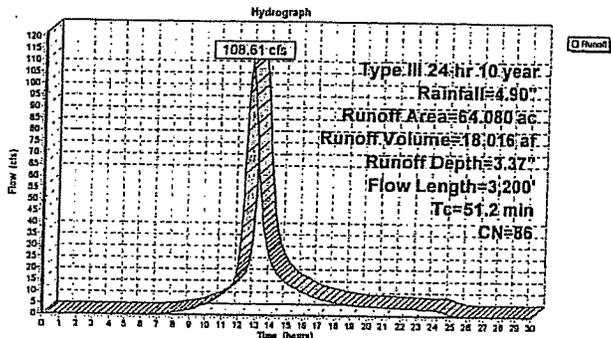
Runoff = 108.61 cfs @ 12.69 hrs, Volume= 18.016 af, Depth= 3.37"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
25.860	84	Urban commercial, 85% imp, HSG C
38.220	81	1/3 acre lots, 30% imp, HSG C
64.080	86	Weighted Average
30.633		Pervious Area
33.447		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.8	200	0.0050	0.12		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
16.2	2,250	0.0130	2.31		Shallow Concentrated Flow, Paved Kv= 20.3 fps
6.2	750	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
51.2	3,200				Total

Subcatchment W4529: W4529



Subcatchment W5128: W5128

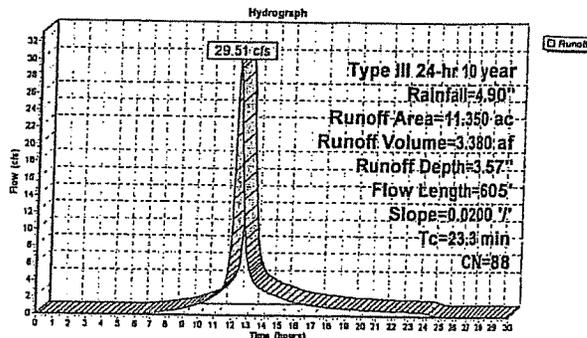
Runoff = 29.51 cfs @ 12.31 hrs, Volume= 3.380 af, Depth= 3.57"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
4.320	83	1/4 acre lots, 38% imp, HSG C
7.030	91	Urban Industrial, 72% imp, HSG C
11.350	88	Weighted Average
4.647		Pervious Area
6.703		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.5	200	0.0200	0.20		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
6.8	405	0.0200	0.89		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
23.3	605				Total

Subcatchment W5128: W5128



Subcatchment W5300: W5300

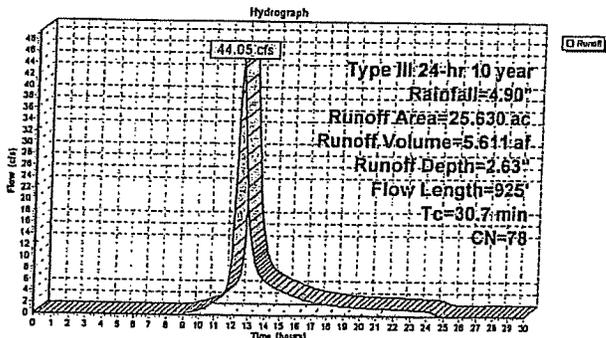
Runoff = 44.05 cfs @ 12.43 hrs, Volume= 5.611 af, Depth= 2.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
14.570	73	Woods, Fair, HSG C
8.660	83	1/4 acre lots, 38% imp, HSG C
1.400	94	Urban commercial, 85% imp, HSG C
25.630	78	Weighted Average
20.769		Pervious Area
4.861		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.6	150	0.0130	0.16		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
15.1	775	0.0150	0.86		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
30.7	925				Total

Subcatchment W5300: W5300



Subcatchment W6008: W6008

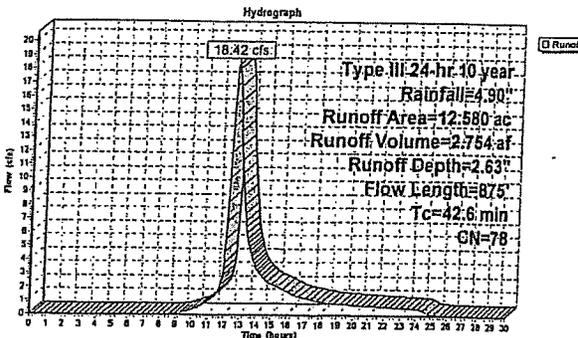
Runoff = 18.42 cfs @ 12.58 hrs, Volume= 2.754 af, Depth= 2.63"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 10 year Rainfall=4.90"

Area (ac)	CN	Description
6.890	73	Woods, Fair, HSG C
5.690	83	1/4 acre lots, 38% imp, HSG C
12.580	78	Weighted Average
10.418		Pervious Area
2.162		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.9	150	0.0050	0.11		Sheet Flow, Grass: Short n= 0.150 P2= 3.40"
19.7	725	0.0150	0.61		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
42.6	875				Total

Subcatchment W6008: W6008

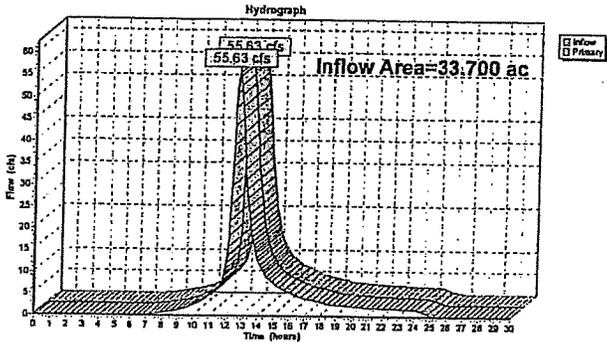


Link 1E: (new Link)

Inflow Area = 33.700 ac, Inflow Depth = 3.37" for 10 year event
 Inflow = 55.63 cfs @ 12.71 hrs, Volume= 9.475 af
 Primary = 55.63 cfs @ 12.71 hrs, Volume= 9.475 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 1E: (new Link)

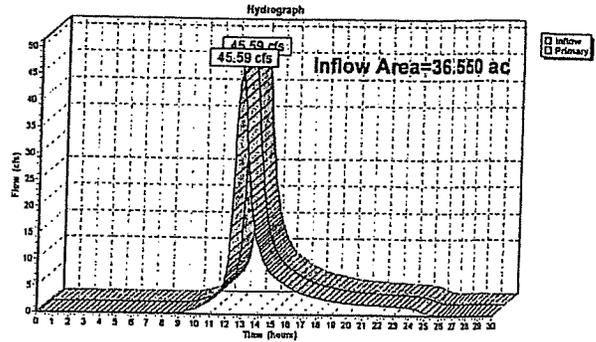


Link 1ELB: (new Link)

Inflow Area = 36.550 ac, Inflow Depth = 2.72" for 10 year event
 Inflow = 45.59 cfs @ 12.83 hrs, Volume= 8.272 af
 Primary = 45.59 cfs @ 12.83 hrs, Volume= 8.272 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 1ELB: (new Link)

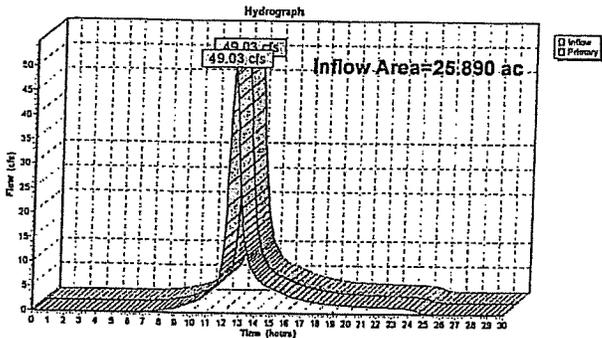


Link 1W: (new Link)

Inflow Area = 25.890 ac, Inflow Depth = 3.28" for 10 year event
 Inflow = 49.03 cfs @ 12.54 hrs, Volume= 7.067 af
 Primary = 49.03 cfs @ 12.54 hrs, Volume= 7.067 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 1W: (new Link)

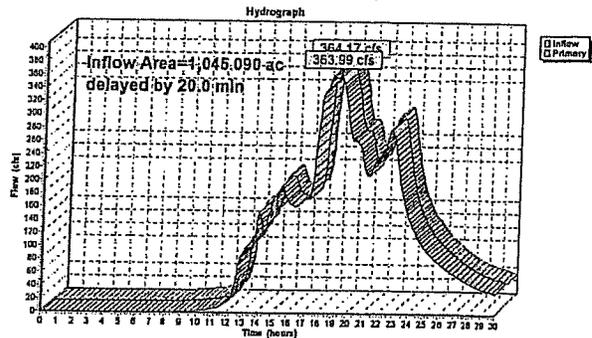


Link 2C: (new Link)

Inflow Area = 1,045.090 ac, Inflow Depth > 2.74" for 10 year event
 Inflow = 364.17 cfs @ 18.89 hrs, Volume= 238.856 af
 Primary = 363.99 cfs @ 19.23 hrs, Volume= 238.045 af, Atten= 0%, Lag= 20.0 min

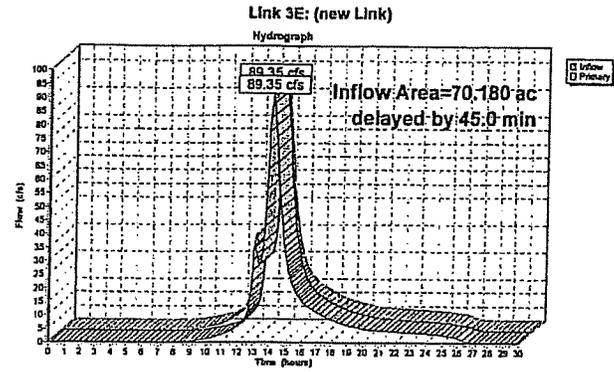
Primary outflow = Inflow delayed by 20.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 2C: (new Link)



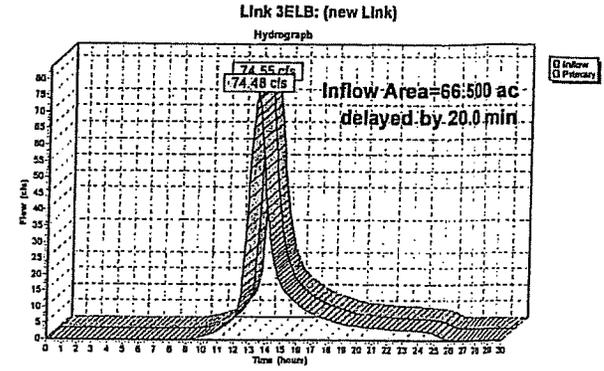
Link 3E: (new Link)

Inflow Area = 70.180 ac, Inflow Depth = 2.82" for 10 year event
 Inflow = 89.35 cfs @ 13.40 hrs, Volume = 17.049 af
 Primary = 89.35 cfs @ 14.15 hrs, Volume = 17.049 af, Atten = 0%, Lag = 45.0 min
 Primary outflow = Inflow delayed by 45.0 min, Time Span = 0.00-30.00 hrs, dt = 0.05 hrs



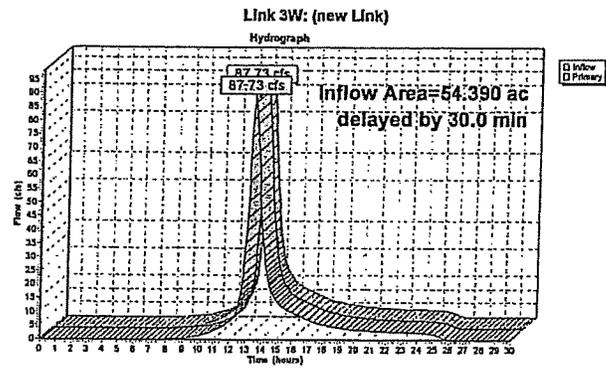
Link 3ELB: (new Link)

Inflow Area = 66.500 ac, Inflow Depth = 2.67" for 10 year event
 Inflow = 74.55 cfs @ 12.97 hrs, Volume = 14.770 af
 Primary = 74.48 cfs @ 13.31 hrs, Volume = 14.770 af, Atten = 0%, Lag = 19.9 min
 Primary outflow = Inflow delayed by 20.0 min, Time Span = 0.00-30.00 hrs, dt = 0.05 hrs



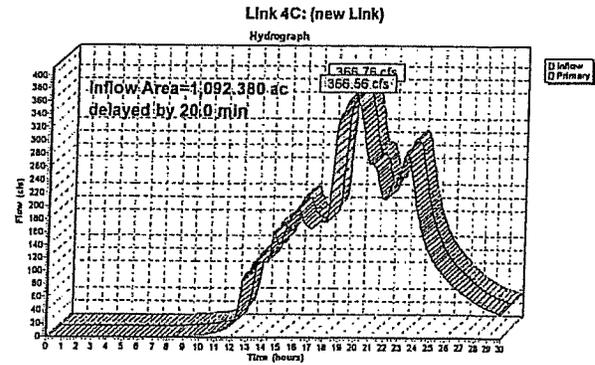
Link 3W: (new Link)

Inflow Area = 54.390 ac, Inflow Depth = 2.94" for 10 year event
 Inflow = 87.73 cfs @ 12.93 hrs, Volume = 13.307 af
 Primary = 87.73 cfs @ 13.43 hrs, Volume = 13.307 af, Atten = 0%, Lag = 30.0 min
 Primary outflow = Inflow delayed by 30.0 min, Time Span = 0.00-30.00 hrs, dt = 0.05 hrs



Link 4C: (new Link)

Inflow Area = 1,092.380 ac, Inflow Depth = 2.73" for 10 year event
 Inflow = 366.76 cfs @ 19.56 hrs, Volume = 246.738 af
 Primary = 366.56 cfs @ 19.89 hrs, Volume = 247.758 af, Atten = 0%, Lag = 20.0 min
 Primary outflow = Inflow delayed by 20.0 min, Time Span = 0.00-30.00 hrs, dt = 0.05 hrs

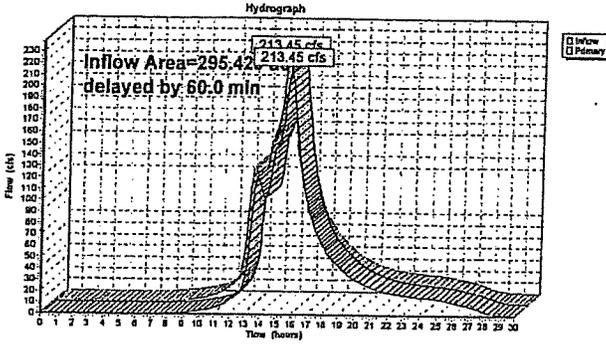


Link 5E: (new Link)

Inflow Area = 295.420 ac, Inflow Depth > 2.88" for 10 year event
 Inflow = 213.45 cfs @ 14.84 hrs, Volume= 70.839 af
 Primary = 213.45 cfs @ 15.84 hrs, Volume= 70.827 af, Atten= 0%, Lag= 60.0 min

Primary outflow = Inflow delayed by 60.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 5E: (new Link)

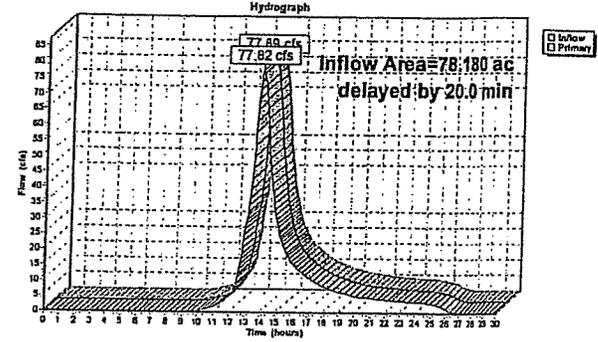


Link 5ELB: (new Link)

Inflow Area = 78.180 ac, Inflow Depth = 2.61" for 10 year event
 Inflow = 77.89 cfs @ 13.83 hrs, Volume= 16.993 af
 Primary = 77.82 cfs @ 13.98 hrs, Volume= 16.993 af, Atten= 0%, Lag= 20.0 min

Primary outflow = Inflow delayed by 20.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 5ELB: (new Link)

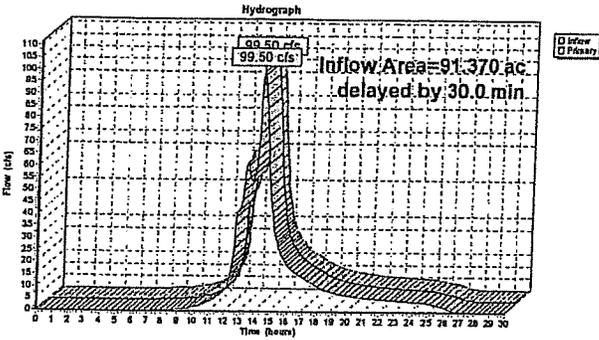


Link 5W: (new Link)

Inflow Area = 91.370 ac, Inflow Depth = 2.93" for 10 year event
 Inflow = 99.50 cfs @ 13.92 hrs, Volume= 22.298 af
 Primary = 99.50 cfs @ 14.42 hrs, Volume= 22.298 af, Atten= 0%, Lag= 30.0 min

Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 5W: (new Link)

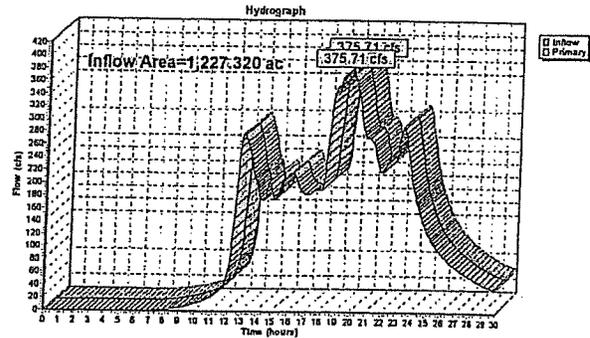


Link 6C: (new Link)

Inflow Area = 1,227.320 ac, Inflow Depth > 2.79" for 10 year event
 Inflow = 375.71 cfs @ 19.89 hrs, Volume= 284.980 af
 Primary = 375.71 cfs @ 19.89 hrs, Volume= 284.980 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

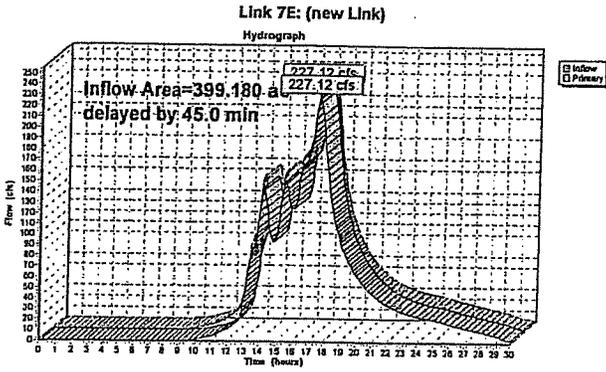
Link 6C: (new Link)



Link 7E: (new Link)

Inflow Area = 399.180 ac, Inflow Depth > 2.87" for 10 year event
 Inflow = 227.12 cfs @ 16.83 hrs, Volume= 95.414 af
 Primary = 227.12 cfs @ 17.58 hrs, Volume= 95.335 af, Atten= 0%, Lag= 45.0 min

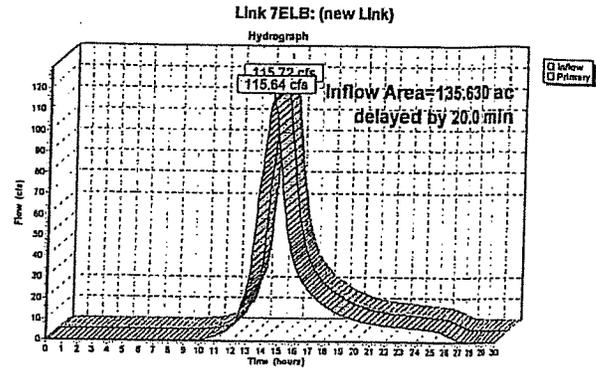
Primary outflow = Inflow delayed by 45.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs



Link 7ELB: (new Link)

Inflow Area = 135.630 ac, Inflow Depth = 2.66" for 10 year event
 Inflow = 115.72 cfs @ 14.19 hrs, Volume= 30.054 af
 Primary = 115.64 cfs @ 14.52 hrs, Volume= 30.054 af, Atten= 0%, Lag= 20.0 min

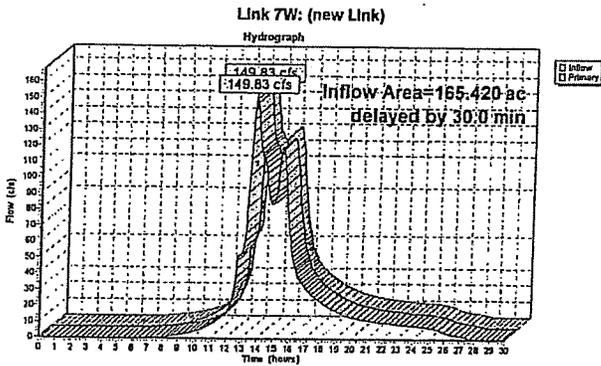
Primary outflow = Inflow delayed by 20.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs



Link 7W: (new Link)

Inflow Area = 165.420 ac, Inflow Depth = 3.16" for 10 year event
 Inflow = 149.83 cfs @ 13.26 hrs, Volume= 43.542 af
 Primary = 149.83 cfs @ 13.76 hrs, Volume= 43.542 af, Atten= 0%, Lag= 30.0 min

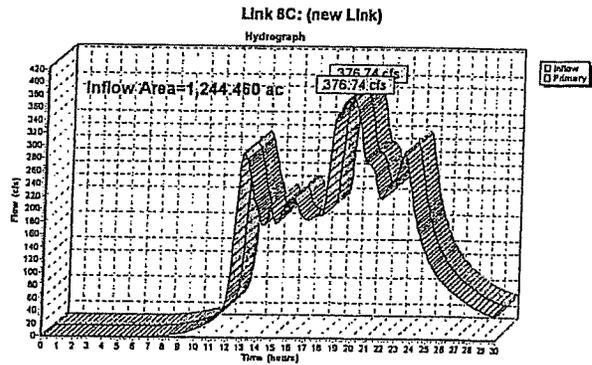
Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs



Link 8C: (new Link)

Inflow Area = 1,244.460 ac, Inflow Depth > 2.78" for 10 year event
 Inflow = 376.74 cfs @ 19.89 hrs, Volume= 289.159 af
 Primary = 376.74 cfs @ 19.89 hrs, Volume= 289.159 af, Atten= 0%, Lag= 0.0 min

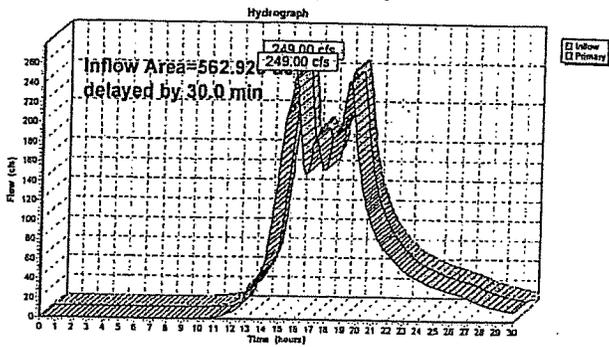
Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs



Link 10E: (new Link)

Inflow Area = 562.920 ac, Inflow Depth > 2.80" for 10 year event
 Inflow = 249.00 cfs @ 15.38 hrs, Volume= 131.300 af
 Primary = 249.00 cfs @ 15.89 hrs, Volume= 130.936 af, Atten= 0%, Lag= 30.0 min
 Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

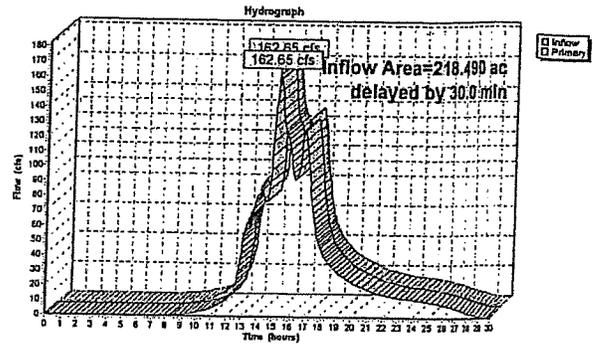
Link 10E: (new Link)



Link 10W: (new Link)

Inflow Area = 218.490 ac, Inflow Depth = 3.07" for 10 year event
 Inflow = 162.65 cfs @ 14.76 hrs, Volume= 55.915 af
 Primary = 162.65 cfs @ 15.26 hrs, Volume= 55.915 af, Atten= 0%, Lag= 30.0 min
 Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

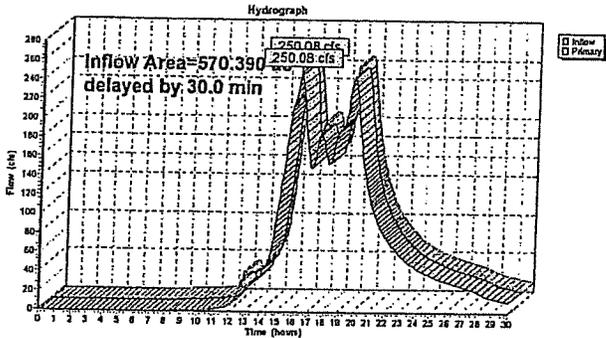
Link 10W: (new Link)



Link 11E: (new Link)

Inflow Area = 570.390 ac, Inflow Depth > 2.81" for 10 year event
 Inflow = 250.08 cfs @ 15.89 hrs, Volume= 133.354 af
 Primary = 250.08 cfs @ 16.39 hrs, Volume= 132.926 af, Atten= 0%, Lag= 30.0 min
 Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

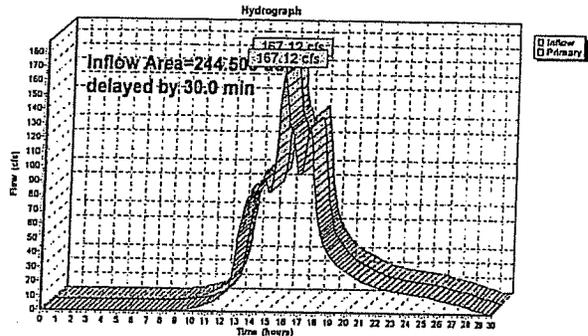
Link 11E: (new Link)



Link 11W: (new Link)

Inflow Area = 244.500 ac, Inflow Depth > 3.02" for 10 year event
 Inflow = 167.12 cfs @ 15.26 hrs, Volume= 61.609 af
 Primary = 167.12 cfs @ 15.76 hrs, Volume= 61.607 af, Atten= 0%, Lag= 30.0 min
 Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 11W: (new Link)



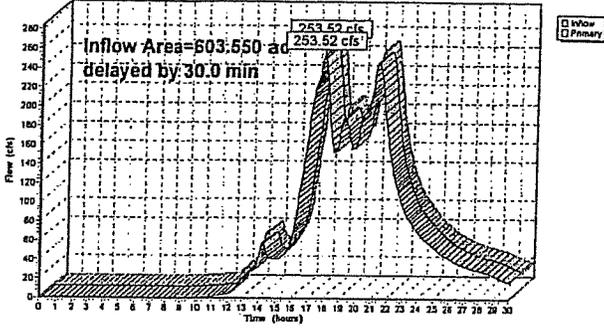
Link 14E: (new Link)

Inflow Area = 603.550 ac, Inflow Depth > 2.76" for 10 year event
 Inflow = 253.52 cfs @ 17.39 hrs, Volume= 138.789 af
 Primary = 253.52 cfs @ 17.89 hrs, Volume= 138.156 af, Atten= 0%, Lag= 30.0 min

Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 14E: (new Link)

Hydrograph



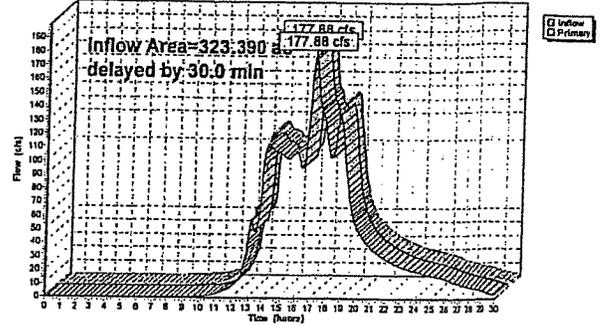
Link 14W: (new Link)

Inflow Area = 323.390 ac, Inflow Depth > 2.93" for 10 year event
 Inflow = 177.88 cfs @ 16.75 hrs, Volume= 78.843 af
 Primary = 177.88 cfs @ 17.25 hrs, Volume= 78.747 af, Atten= 0%, Lag= 30.0 min

Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 14W: (new Link)

Hydrograph



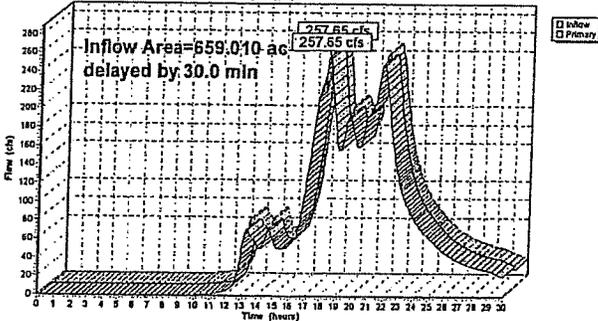
Link 15E: (new Link)

Inflow Area = 659.010 ac, Inflow Depth > 2.69" for 10 year event
 Inflow = 257.65 cfs @ 17.89 hrs, Volume= 147.590 af
 Primary = 257.65 cfs @ 18.39 hrs, Volume= 146.611 af, Atten= 0%, Lag= 30.0 min

Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 15E: (new Link)

Hydrograph



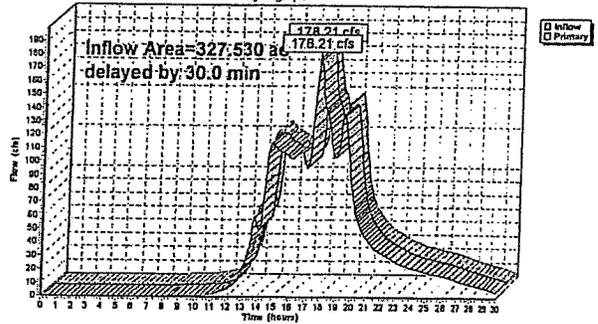
Link 15W: (new Link)

Inflow Area = 327.530 ac, Inflow Depth > 2.91" for 10 year event
 Inflow = 178.21 cfs @ 17.25 hrs, Volume= 79.507 af
 Primary = 178.21 cfs @ 17.75 hrs, Volume= 79.368 af, Atten= 0%, Lag= 30.0 min

Primary outflow = Inflow delayed by 30.0 min, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link 15W: (new Link)

Hydrograph



100-Year Storm

Time span=0.00-30.00 hrs, dt=0.05 hrs, 601 points
 Runoff by SCS TR-20 method, UH=SCS
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment C116: C116	Runoff Area=4.970 ac Flow Length=450' Tc=25.8 min CN=77	Runoff Depth=4.46" Runoff=15.66 cfs 1,845 af
Subcatchment C1334: C1334	Runoff Area=35.190 ac Flow Length=900' Slope=0.0200' Tc=34.0 min CN=83	Runoff Depth=5.12" Runoff=110.94 cfs 15,021 af
Subcatchment C1748: C1748	Runoff Area=12.100 ac Flow Length=850' Tc=33.5 min CN=77	Runoff Depth=4.46" Runoff=33.86 cfs 4,493 af
Subcatchment C2359: C2359	Runoff Area=32.610 ac Flow Length=1,050' Slope=0.0400' Tc=36.8 min CN=82	Runoff Depth=5.01" Runoff=97.04 cfs 13,615 af
Subcatchment C560: C560	Runoff Area=121.880 ac Flow Length=4,800' Tc=73.9 min CN=86	Runoff Depth=5.46" Runoff=264.20 cfs 55,475 af
Subcatchment C62: (new Subcat)	Runoff Area=12.170 ac Flow Length=2,400' Tc=31.3 min CN=83	Runoff Depth=5.12" Runoff=39.88 cfs 5,195 af
Subcatchment C747: C747	Runoff Area=13.060 ac Flow Length=700' Slope=0.0050' Tc=58.6 min CN=79	Runoff Depth=4.68" Runoff=28.36 cfs 3,798 af
Subcatchment E2964: E2964	Runoff Area=25.940 ac Flow Length=1,460' Slope=0.0400' Tc=35.4 min CN=77	Runoff Depth=4.46" Runoff=70.62 cfs 9,632 af
Subcatchment E3568: E3568	Runoff Area=55.460 ac Flow Length=2,750' Tc=55.8 min CN=71	Runoff Depth=3.81" Runoff=101.31 cfs 17,598 af
Subcatchment E3889: E3889	Runoff Area=6.520 ac Flow Length=650' Tc=22.3 min CN=77	Runoff Depth=4.46" Runoff=21.86 cfs 2,421 af
Subcatchment E4219: E4219	Runoff Area=9.290 ac Flow Length=600' Slope=0.0330' Tc=24.2 min CN=74	Runoff Depth=4.13" Runoff=27.91 cfs 3,197 af
Subcatchment E4975: E4975	Runoff Area=17.350 ac Flow Length=1,110' Slope=0.0250' Tc=46.5 min CN=78	Runoff Depth=4.57" Runoff=42.03 cfs 5,601 af
Subcatchment E5158: E5158	Runoff Area=7.470 ac Flow Length=500' Tc=17.1 min CN=91	Runoff Depth=6.04" Runoff=35.72 cfs 3,759 af
Subcatchment E5498: E5498	Runoff Area=6.870 ac Flow Length=1,000' Tc=38.4 min CN=83	Runoff Depth=5.12" Runoff=19.83 cfs 2,647 af
Subcatchment E5909: E5909	Runoff Area=3.860 ac Flow Length=450' Slope=0.0080' Tc=52.0 min CN=83	Runoff Depth=5.12" Runoff=9.70 cfs 1,648 af

Subcatchment E6369: E6369	Runoff Area=17.580 ac Flow Length=950' Tc=63.2 min CN=77	Runoff Depth=4.46" Runoff=35.08 cfs 6,528 af
Subcatchment E6821: E6821	Runoff Area=47.710 ac Flow Length=2,042' Tc=82.2 min CN=81	Runoff Depth=4.90" Runoff=104.76 cfs 19,474 af
Subcatchment E7473: E7473	Runoff Area=58.050 ac Flow Length=1,565' Tc=36.5 min CN=80	Runoff Depth=4.79" Runoff=160.77 cfs 22,358 af
Subcatchment E8046: E8046	Runoff Area=63.610 ac Flow Length=3,435' Tc=57.2 min CN=87	Runoff Depth=5.58" Runoff=163.96 cfs 29,558 af
Subcatchment E8497: E8497	Runoff Area=161.630 ac Flow Length=4,455' Tc=135.0 min CN=78	Runoff Depth=4.57" Runoff=198.62 cfs 61,493 af
Subcatchment E9081: E9081	Runoff Area=12.310 ac Flow Length=575' Tc=22.5 min CN=81	Runoff Depth=4.90" Runoff=44.85 cfs 5,025 af
Subcatchment E9326: E9326	Runoff Area=24.170 ac Flow Length=1,650' Tc=40.2 min CN=74	Runoff Depth=4.13" Runoff=57.47 cfs 8,317 af
Subcatchment E9611: E9611	Runoff Area=33.700 ac Flow Length=1,650' Tc=53.6 min CN=86	Runoff Depth=5.46" Runoff=88.64 cfs 15,339 af
Subcatchment ELB1369: ELB1369	Runoff Area=19.910 ac Flow Length=2,055' Tc=44.5 min CN=80	Runoff Depth=4.79" Runoff=51.75 cfs 7,942 af
Subcatchment ELB1483: ELB1483	Runoff Area=10.040 ac Flow Length=1,125' Slope=0.0400' Tc=38.1 min CN=73	Runoff Depth=4.02" Runoff=23.86 cfs 3,365 af
Subcatchment ELB2128: ELB2128	Runoff Area=36.550 ac Flow Length=900' Tc=60.5 min CN=79	Runoff Depth=4.68" Runoff=78.21 cfs 14,242 af
Subcatchment ELB234: ELB234	Runoff Area=3.920 ac Flow Length=400' Slope=0.0150' Tc=28.4 min CN=81	Runoff Depth=4.90" Runoff=13.34 cfs 1,600 af
Subcatchment ELB725: ELB729	Runoff Area=53.530 ac Flow Length=4,165' Tc=100.2 min CN=78	Runoff Depth=4.68" Runoff=92.75 cfs 20,859 af
Subcatchment ELB829: ELB829	Runoff Area=4.250 ac Flow Length=750' Slope=0.0400' Tc=31.8 min CN=74	Runoff Depth=4.13" Runoff=11.30 cfs 1,482 af
Subcatchment ELB972: ELB972	Runoff Area=7.430 ac Flow Length=800' Slope=0.0400' Tc=37.0 min CN=74	Runoff Depth=4.13" Runoff=21.30 cfs 2,557 af
Subcatchment W1217: W1217	Runoff Area=10.890 ac Flow Length=650' Slope=0.0100' Tc=17.0 min CN=80	Runoff Depth=5.82" Runoff=50.64 cfs 5,275 af
Subcatchment W1626: W1626	Runoff Area=60.580 ac Flow Length=2,635' Tc=47.0 min CN=76	Runoff Depth=4.35" Runoff=139.30 cfs 21,942 af

Subcatchment W1737: W1737	Runoff Area=26.010 ac Flow Length=1,150' Tc=47.9 min CN=78	Runoff Depth=4.57" Runoff=62.09 cfs 8,956 af
Subcatchment W2720: W2720	Runoff Area=27.950 ac Flow Length=700' Tc=53.8 min CN=82	Runoff Depth=5.01" Runoff=88.20 cfs 11,669 af
Subcatchment W290: W290	Runoff Area=4.140 ac Flow Length=650' Slope=0.0300' Tc=28.3 min CN=73	Runoff Depth=4.02" Runoff=11.31 cfs 1,387 af
Subcatchment W3148: W3148	Runoff Area=9.510 ac Flow Length=750' Tc=46.4 min CN=75	Runoff Depth=4.24" Runoff=21.62 cfs 3,356 af
Subcatchment W3774: W3774	Runoff Area=15.610 ac Flow Length=1,200' Tc=31.3 min CN=79	Runoff Depth=4.68" Runoff=47.12 cfs 6,083 af
Subcatchment W3975: W3975	Runoff Area=8.970 ac Flow Length=865' Tc=20.3 min CN=91	Runoff Depth=6.04" Runoff=44.56 cfs 5,016 af
Subcatchment W4529: W4529	Runoff Area=64.080 ac Flow Length=3,200' Tc=51.2 min CN=86	Runoff Depth=5.46" Runoff=172.96 cfs 28,167 af
Subcatchment W5128: W5128	Runoff Area=11.350 ac Flow Length=605' Slope=0.0200' Tc=23.3 min CN=88	Runoff Depth=5.69" Runoff=46.03 cfs 5,382 af
Subcatchment W5300: W5300	Runoff Area=25.630 ac Flow Length=925' Tc=30.7 min CN=78	Runoff Depth=4.67" Runoff=78.41 cfs 9,751 af
Subcatchment W6008: W6008	Runoff Area=12.580 ac Flow Length=875' Tc=42.8 min CN=78	Runoff Depth=4.57" Runoff=31.86 cfs 4,786 af
Subcatchment W6278: W6278	Runoff Area=15.920 ac Flow Length=1,350' Tc=25.8 min CN=78	Runoff Depth=4.57" Runoff=51.32 cfs 6,057 af
Subcatchment W6643: W6643	Runoff Area=25.890 ac Flow Length=2,400' Tc=39.4 min CN=85	Runoff Depth=5.35" Runoff=78.78 cfs 11,539 af
Subcatchment W684: W684	Runoff Area=7.620 ac Flow Length=650' Slope=0.0250' Tc=36.2 min CN=76	Runoff Depth=4.35" Runoff=20.07 cfs 2,760 af
Link 1C: (new Link)	Inflow=615.29 cfs 393,889 af Primary=816.29 cfs 393,889 af	
Link 1E: (new Link)	Inflow=88.64 cfs 15,339 af Primary=88.64 cfs 15,339 af	
Link 1ELB: (new Link)	Inflow=78.21 cfs 14,242 af Primary=78.21 cfs 14,242 af	
Link 1W: (new Link)	Inflow=78.78 cfs 11,539 af Primary=78.78 cfs 11,539 af	

Link 2C: (new Link)	delayed by 20.0 min Inflow=618.97 cfs 407,503 af Primary=618.67 cfs 406,236 af
Link 2E: (new Link)	delayed by 45.0 min Inflow=143.08 cfs 23,656 af Primary=143.08 cfs 23,656 af
Link 2ELB: (new Link)	delayed by 20.0 min Inflow=97.18 cfs 17,607 af Primary=97.03 cfs 17,607 af
Link 2W: (new Link)	delayed by 30.0 min Inflow=124.27 cfs 17,596 af Primary=124.27 cfs 17,596 af
Link 3C: (new Link)	delayed by 20.0 min Inflow=619.89 cfs 410,729 af Primary=619.85 cfs 409,321 af
Link 3E: (new Link)	delayed by 45.0 min Inflow=149.10 cfs 28,681 af Primary=149.10 cfs 28,681 af
Link 3ELB: (new Link)	delayed by 20.0 min Inflow=129.22 cfs 25,549 af Primary=129.10 cfs 25,549 af
Link 3W: (new Link)	delayed by 30.0 min Inflow=145.94 cfs 22,382 af Primary=145.94 cfs 22,382 af
Link 4C: (new Link)	delayed by 20.0 min Inflow=623.25 cfs 424,342 af Primary=622.98 cfs 422,830 af
Link 4E: (new Link)	delayed by 45.0 min Inflow=337.53 cfs 90,174 af Primary=337.53 cfs 90,174 af
Link 4ELB: (new Link)	delayed by 20.0 min Inflow=133.17 cfs 28,106 af Primary=133.04 cfs 28,106 af
Link 4W: (new Link)	delayed by 30.0 min Inflow=160.14 cfs 32,134 af Primary=160.14 cfs 32,134 af
Link 5C: (new Link)	Inflow=624.29 cfs 427,919 af Primary=624.29 cfs 427,919 af
Link 5E: (new Link)	delayed by 60.0 min Inflow=361.40 cfs 119,727 af Primary=361.40 cfs 119,709 af
Link 5ELB: (new Link)	delayed by 20.0 min Inflow=134.86 cfs 29,568 af Primary=134.83 cfs 29,568 af
Link 5W: (new Link)	delayed by 30.0 min Inflow=164.82 cfs 37,516 af Primary=164.82 cfs 37,516 af
Link 6C: (new Link)	Inflow=637.70 cfs 483,394 af Primary=637.70 cfs 483,394 af

Link 6E: (new Link)	delayed by 60.0 min	Inflow=373.98 cfs Primary=373.98 cfs	142.068 af 142.010 af
Link 6ELB: (new Link)	delayed by 20.0 min	Inflow=198.33 cfs Primary=198.19 cfs	50.427 af 50.427 af
Link 6W: (new Link)	delayed by 30.0 min	Inflow=238.39 cfs Primary=238.39 cfs	66.683 af 66.683 af
Link 7C: (new Link)		Inflow=638.16 cfs Primary=638.16 cfs	485.239 af 485.239 af
Link 7E: (new Link)	delayed by 45.0 min	Inflow=382.86 cfs Primary=382.86 cfs	161.484 af 161.361 af
Link 7ELB: (new Link)	delayed by 20.0 min	Inflow=198.58 cfs Primary=199.45 cfs	52.027 af 52.027 af
Link 7W: (new Link)	delayed by 30.0 min	Inflow=242.05 cfs Primary=242.05 cfs	71.898 af 71.898 af
Link 8C: (new Link)		Inflow=639.36 cfs Primary=639.36 cfs	490.434 af 490.434 af
Link 8E: (new Link)	delayed by 45.0 min	Inflow=385.46 cfs Primary=385.46 cfs	167.889 af 167.528 af
Link 8W: (new Link)	delayed by 30.0 min	Inflow=248.83 cfs Primary=248.83 cfs	77.781 af 77.781 af
Link 8E: (new Link)	delayed by 30.0 min	Inflow=427.56 cfs Primary=427.56 cfs	221.200 af 220.763 af
Link 9W: (new Link)	delayed by 30.0 min	Inflow=252.48 cfs Primary=252.48 cfs	81.139 af 81.139 af
Link 10E: (new Link)	delayed by 30.0 min	Inflow=429.34 cfs Primary=429.34 cfs	223.611 af 223.045 af
Link 10W: (new Link)	delayed by 30.0 min	Inflow=262.44 cfs Primary=262.44 cfs	82.808 af 82.808 af
Link 11E: (new Link)	delayed by 30.0 min	Inflow=430.93 cfs Primary=430.93 cfs	226.803 af 226.138 af
Link 11W: (new Link)	delayed by 30.0 min	Inflow=269.57 cfs Primary=269.57 cfs	102.704 af 102.701 af
Link 12E: (new Link)	delayed by 30.0 min	Inflow=434.24 cfs Primary=434.24 cfs	232.739 af 231.669 af

Link 12W: (new Link)	delayed by 30.0 min	Inflow=283.55 cfs Primary=283.55 cfs	124.644 af 124.623 af
Link 13E: (new Link)	delayed by 30.0 min	Inflow=435.58 cfs Primary=435.58 cfs	235.166 af 234.277 af
Link 13W: (new Link)	delayed by 30.0 min	Inflow=285.53 cfs Primary=285.53 cfs	129.898 af 129.805 af
Link 14E: (new Link)	delayed by 30.0 min	Inflow=436.44 cfs Primary=436.44 cfs	236.698 af 235.704 af
Link 14W: (new Link)	delayed by 30.0 min	Inflow=288.74 cfs Primary=288.74 cfs	132.565 af 132.417 af
Link 15E: (new Link)	delayed by 30.0 min	Inflow=443.30 cfs Primary=443.30 cfs	253.303 af 252.089 af
Link 15W: (new Link)	delayed by 30.0 min	Inflow=287.29 cfs Primary=287.29 cfs	133.805 af 133.592 af
Link 16E: (new Link)	delayed by 30.0 min	Inflow=446.09 cfs Primary=446.09 cfs	261.731 af 260.297 af

Total Runoff Area = 1,244.460 ac Runoff Volume = 502.623 af Average Runoff Depth = 4.85"
 68.71% Pervious Area = 855.023 ac 31.29% Impervious Area = 389.437 ac

Subcatchment C116: C116

Runoff = 15.66 cfs @ 12.35 hrs, Volume = 1.845 af, Depth = 4.46"

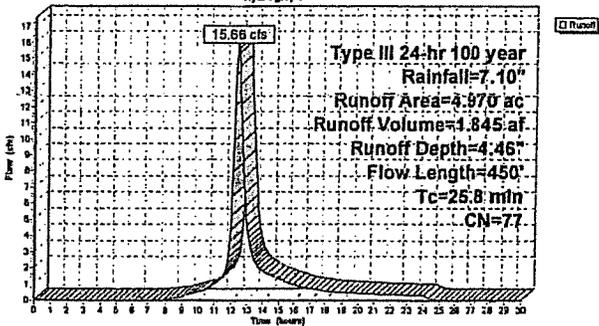
Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100 year Rainfall=7.10"

Area (ac)	CN	Description
4.970	77	Brush, Poor, HSG C
4.970		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.3	150	0.0100	0.14		Sheet Flow, Gross: Short n= 0.150 P2= 3.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
8.5	300	0.0070	0.59		
25.8	450	Total			

Subcatchment C116: C116

Hydrograph



Subcatchment C1334: C1334

Runoff = 110.94 cfs @ 12.46 hrs, Volume = 15.021 af, Depth = 5.12"

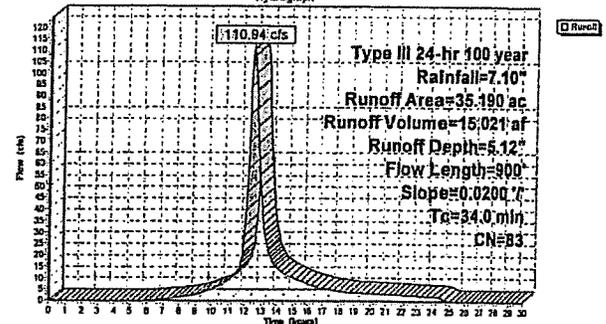
Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100 year Rainfall=7.10"

Area (ac)	CN	Description
2.520	94	Urban commercial, 85% Imp, HSG C
2.450	81	1/3 acre lots, 30% Imp, HSG C
2.510	74	>75% Grass cover, Good, HSG C
27.710	83	1/4 acre lots, 38% Imp, HSG C
35.190	83	Weighted Average
21.783		Pervious Area
13.407		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.1	150	0.0200	0.13		Sheet Flow, Grass: Dense n= 0.240 P2= 3.40"
6.7	400	0.0200	0.99		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
8.2	350	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
34.0	800	Total			

Subcatchment C1334: C1334

Hydrograph



Subcatchment C1748: C1748

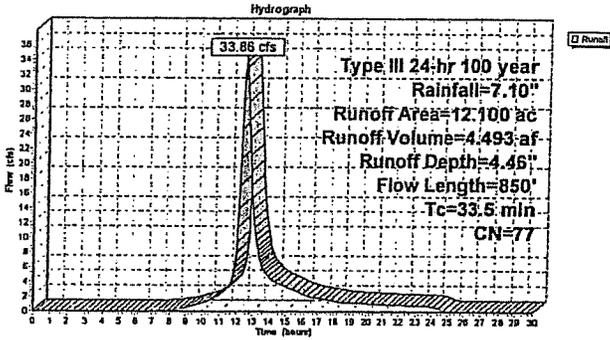
Runoff = 33.86 cfs @ 12.46 hrs, Volume= 4.493 af, Depth= 4.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100 year Rainfall=7.10"

Area (ac)	CN	Description
1.420	94	Urban commercial, 85% Imp, HSG C
2.560	83	1/4 acre lots, 38% Imp, HSG C
2.020	74	>75% Grass cover, Good, HSG C
3.600	70	Brush, Fair, HSG C
2.500	74	>75% Grass cover, Good, HSG C
12.100	77	Weighted Average
8.920		Pervious Area
2.180		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.0	150	0.0270	0.15		Sheet Flow, Grass: Dense n=0.240 P2= 3.40"
6.5	450	0.0270	1.15		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
10.0	250	0.0070	0.42		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
33.5	850				Total

Subcatchment C1748: C1748



Subcatchment C2359: C2359

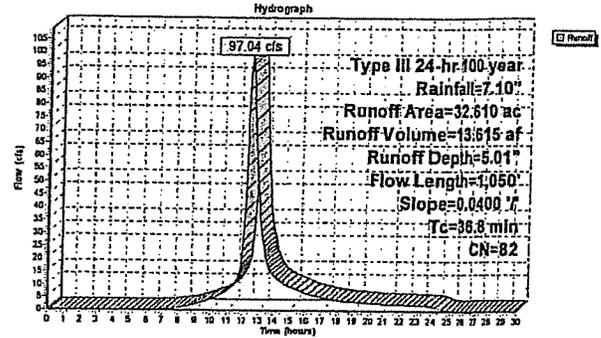
Runoff = 97.04 cfs @ 12.50 hrs, Volume= 13.615 af, Depth= 5.01"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100 year Rainfall=7.10"

Area (ac)	CN	Description
8.300	91	Urban industrial, 72% Imp, HSG C
2.000	77	Brush, Fair, HSG D
7.540	70	Brush, Fair, HSG C
14.770	83	1/4 acre lots, 38% Imp, HSG C
32.610	82	Weighted Average
21.021		Pervious Area
11.589		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.8	150	0.0400	0.11		Sheet Flow, Woods: Light underbrush n=0.400 P2= 3.40"
15.0	900	0.0400	1.00		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
36.0	1,050				Total

Subcatchment C2359: C2359



Subcatchment C560: C560

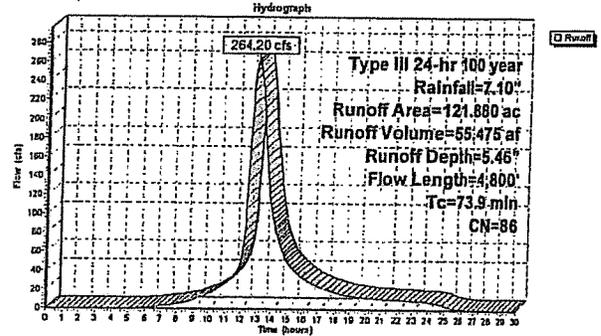
Runoff = 264.20 cfs @ 12.60 hrs, Volume= 55.475 af, Depth= 5.46"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100 year Rainfall=7.10"

Area (ac)	CN	Description
19.710	94	Urban commercial, 85% Imp, HSG C
1.810	74	>75% Grass cover, Good, HSG C
1.250	73	Woods, Fair, HSG C
2.630	74	>75% Grass cover, Good, HSG C
7.880	70	1/2 acre lots, 25% Imp, HSG B
9.060	60	Woods, Fair, HSG B
78.440	90	1/8 acre lots, 85% Imp, HSG C
121.880	86	Weighted Average
51.520		Pervious Area
70.360		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.1	200	0.0380	0.12		Sheet Flow, Woods: Light underbrush n=0.400 P2= 3.40"
14.5	850	0.0380	0.97		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
2.9	225	0.0350	1.31		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
8.1	1,700	0.0300	3.52		Shallow Concentrated Flow, Paved Kv= 20.3 fps
6.7	1,100	0.0180	2.72		Shallow Concentrated Flow, Paved Kv= 20.3 fps
3.5	300	0.0050	1.44		Shallow Concentrated Flow, Paved Kv= 20.3 fps
10.1	425	0.0100	0.70		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
73.9	4,800				Total

Subcatchment C560: C560





Appendix E – Map of Study Area

