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 HEC2 VERSION UPDATED AUG 1976  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09,10  
 MODIFICATIONS 52,53,54,55,56,57,58,59  
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T1 TRANSYLVANIA CO, NC 0  
 T2 100 YEAR Floodway 0  
 T3 CATHEYS CR 2-15-77 SFA 0

J1 I CHECK INV NINV IDIR SIFT METRIC HVINS Q WSEL EQ  
 0. 0. 0. 0. 0.0 0.0 0. 2141.000 0.0 0

J2 NPROF I PLOT PRFVS XSECV XSECH FH ALLDC IBW CHNIM ITRACE  
 1.000 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 15.000 0.0

J3 1.000 34.000 36.000 4.000 27.000 28.000 9.000 0.0 0.0 0.0 0  
 NC 0.150 0.060 0.045 0.100 0.500 0.0 0.0 0.0 0.0 0.0 30  
 QT 8.000 1650.000 3000.000 3760.000 5700.000 3700.000 3700.000 0.0 0.0 0.0 35  
 ET 0.0 0.0 0.0 0.0 0.0 0.0 8.100 100.000 400.000 0.0 40

X1 0.200 28.000 192.000 200.000 0.0 0.0 0.0 0.0 0.0 0.0 45  
 GR 2154.000 0.0 2141.000 30.000 2139.500 100.000 2140.800 192.000 2133.200 195.000 50  
 JR 2131.900 182.000 2133.200 192.000 2140.200 200.000 2136.400 400.000 2139.800 500.000 55  
 GR 2139.700 600.000 2139.000 700.000 2140.000 800.000 2140.900 1000.000 2142.000 1100.000 60  
 GR 2142.900 1200.000 2144.800 1400.000 2144.800 1500.000 2145.100 1600.000 2145.800 1700.000 65  
 GR 2146.000 1600.000 2146.000 1900.000 2147.000 2000.000 2147.000 2100.000 2148.200 2200.000 70  
 GR 2150.000 2400.000 2150.000 2505.000 2159.000 2600.000 0.0 0.0 0.0 0.0 75  
 NC 0.150 0.060 0.045 0.100 0.500 0.0 0.0 0.0 0.0 0.0 80  
 QT 8.000 1750.000 2780.000 3530.000 5330.000 3530.000 3530.000 0.0 0.0 0.0 85  
 ET 0.0 0.0 0.0 0.0 0.0 0.0 8.100 300.000 420.000 0.0 90

X1 0.650 33.000 320.000 450.000 2600.000 2600.000 2600.000 0.0 0.0 0.0 95  
 GR 2162.800 260.000 2154.200 282.000 2150.200 300.000 2148.800 320.000 2144.000 328.000 100  
 GR 2141.900 350.000 2143.800 360.000 2144.000 380.000 2143.900 392.000 2147.300 400.000 105  
 GR 2149.500 412.000 2151.300 462.000 2150.200 500.000 2150.100 515.000 2149.500 615.000 110  
 GR 2149.500 628.000 2149.500 700.000 2150.200 800.000 2149.800 900.000 2151.700 1100.000 115  
 GR 2150.700 1300.000 2150.500 1400.000 2151.100 1475.000 2147.000 1462.000 2147.000 1495.000 120  
 UK 2151.000 1500.000 2150.000 1700.000 2151.400 1800.000 2150.500 2000.000 2151.000 2100.000 125  
 GR 2153.200 2160.000 2156.500 2200.000 2160.300 2220.000 0.0 0.0 0.0 0.0 130  
 NC 0.150 0.050 0.045 0.100 0.500 0.0 0.0 0.0 0.0 0.0 135  
 QT 8.000 1720.000 2270.000 3520.000 5320.000 3520.000 3520.000 0.0 0.0 0.0 140  
 ET 0.0 0.0 0.0 0.0 0.0 0.0 8.100 100.000 220.000 0.0 145

X1 0.820 36.000 110.000 200.000 520.000 520.000 520.000 0.0 0.0 0.0 150  
 GR 2172.000 0.0 2167.000 95.000 2157.000 110.000 2147.000 120.000 2151.400 170.000 155  
 SR 2158.500 200.000 2157.500 400.000 2159.000 500.000 2158.700 515.000 2155.000 520.000 160  
 GR 2151.000 530.000 2157.700 560.000 2158.200 592.000 2158.000 600.000 2158.200 630.000 165  
 GR 2159.200 680.000 2157.400 682.000 2157.400 695.000 2160.700 800.000 2162.800 815.000 170  
 GR 2160.700 1000.000 2160.200 1100.000 2160.900 1200.000 2161.100 1300.000 2160.200 1400.000 175  
 GR 2161.700 1480.000 2165.000 1482.000 2158.000 1490.000 2158.000 1502.000 2164.100 1512.000 180  
 GR 2163.000 1600.000 2163.700 1700.000 2163.900 1600.000 2166.000 2000.000 2175.200 2100.000 185  
 GR 2173.500 2150.000 2175.300 2170.000 2180.500 2182.000 0.0 0.0 0.0 0.0 190  
 NC 0.150 0.050 0.045 0.100 0.500 0.0 0.0 0.0 0.0 0.0 195





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 HEC2 VERSION UPDATED AUG 1976  
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 MODIFICATIONS 52,53,54,55,56,57,58,59  
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T1 TRANSYLVANIA CO NC 0  
 T2 100 YEAR 0  
 T3 CATHEYS CR 2-15-77 SFA 0

J1 ICHECK INC INV IDIR STRT METRIC HVINS WSEL EQ  
 0. 0. 0. 0. 0.0 0.0 0.0 0. 2141.860 0.0 0

J2 NPKCF IPLST PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE  
 1.000 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 15.000 0.0

J3 1.000 34.000 36.000 4.000 27.000 28.000 9.000 0.0 0.0 0.0 0  
 NC 0.150 0.060 0.045 0.100 0.500 0.0 0.0 0.0 0.0 0.0 30  
 WT 6.000 1850.000 2000.000 3700.000 5700.000 3700.000 3700.000 0.0 0.0 0.0 35  
 ET 0.0 0.0 0.0 0.0 0.0 0.0 8.100 100.000 400.000 0.0 40

X1 0.200 28.000 152.000 200.000 0.0 0.0 0.0 0.0 0.0 0.0 45  
 GR 2154.000 0.0 2141.000 30.000 2139.500 100.000 2140.800 152.000 2133.200 155.000 50  
 GR 2131.900 182.000 2133.200 192.000 2140.200 200.000 2136.400 400.000 2139.800 500.000 55  
 GR 2139.700 600.000 2139.000 700.000 2140.000 800.000 2140.900 1000.000 2142.000 1100.000 60  
 GR 2142.900 1200.000 2144.800 1400.000 2144.600 1500.000 2145.100 1600.000 2145.800 1700.000 65  
 GR 2146.000 1800.000 2146.000 1900.000 2147.000 2000.000 2147.000 2100.000 2148.200 2200.000 70  
 GR 2150.000 2400.000 2150.000 2505.000 2159.000 2600.000 0.0 0.0 0.0 0.0 75  
 NC 0.150 0.060 0.045 0.100 0.500 0.0 0.0 0.0 0.0 0.0 80  
 WT 6.000 1720.000 2780.000 3530.000 5330.000 3530.000 3530.000 0.0 0.0 0.0 85  
 ET 0.0 0.0 0.0 0.0 0.0 0.0 6.100 300.000 420.000 0.0 90

X1 0.000 28.000 320.000 400.000 2600.000 2600.000 2600.000 0.0 0.0 0.0 95  
 GR 2142.800 200.000 2155.200 282.000 2150.200 300.000 2148.800 320.000 2144.000 328.000 100  
 GR 2141.900 390.000 2143.800 360.000 2144.000 380.000 2143.900 392.000 2147.300 400.000 105  
 GR 2149.200 412.000 2151.300 462.000 2150.200 500.000 2150.100 518.000 2149.500 615.000 110  
 GR 2149.500 628.000 2149.500 700.000 2150.200 600.000 2149.800 900.000 2151.700 1000.000 115  
 GR 2150.700 1300.000 2150.500 1400.000 2151.100 1475.000 2147.000 1482.000 2147.000 1495.000 120  
 GR 2151.000 1500.000 2150.000 1700.000 2151.400 1800.000 2150.500 2000.000 2151.000 2100.000 125  
 GR 2152.200 2100.000 2156.800 2200.000 2160.300 2220.000 0.0 0.0 0.0 0.0 130  
 NC 0.150 0.060 0.045 0.100 0.500 0.0 0.0 0.0 0.0 0.0 135  
 WT 6.000 1720.000 2270.000 3520.000 5320.000 3520.000 3520.000 0.0 0.0 0.0 140  
 ET 0.0 0.0 0.0 0.0 0.0 0.0 6.100 100.000 220.000 0.0 145

X1 0.000 36.000 110.000 200.000 520.000 520.000 520.000 0.0 0.0 0.0 150  
 GR 2172.000 0.0 2167.500 95.000 2157.000 110.000 2147.000 120.000 2151.400 170.000 155  
 GR 2158.900 200.000 2157.500 400.000 2159.000 300.000 2158.700 515.000 2155.000 520.000 160  
 GR 2155.000 520.000 2157.700 520.000 2158.200 592.000 2156.000 600.000 2158.200 630.000 165  
 GR 2159.200 680.000 2157.400 682.000 2157.400 695.000 2160.700 800.000 2162.800 815.000 170  
 GR 2160.700 1000.000 2160.200 1100.000 2160.900 1200.000 2161.100 1300.000 2160.200 1400.000 175  
 GR 2161.700 1480.000 2165.000 1482.000 2158.000 1490.000 2158.000 1502.000 2164.100 1512.000 180  
 GR 2153.000 1600.000 2162.700 1700.000 2163.900 1800.000 2168.000 2000.000 2175.200 2100.000 185  
 GR 2173.500 2150.000 2175.300 2170.000 2180.500 2182.000 0.0 0.0 0.0 0.0 190  
 NC 0.150 0.050 0.045 0.100 0.500 0.0 0.0 0.0 0.0 0.0 195

QT	6.000	1700.000	2750.000	3500.000	5300.000	3500.000	3500.000	0.0	0.0	0.0	200
ET	0.0	0.0	0.0	0.0	0.0	0.0	8.100	80.000	220.000	0.0	205
X1	1.030	34.000	100.000	200.000	1000.000	1000.000	1000.000	0.0	0.0	0.0	210
GR	2173.200	2.000	2167.400	40.000	2162.000	100.000	2160.000	100.000	2156.000	112.000	215
GR	2160.000	115.000	2159.300	160.000	2155.000	165.000	2155.200	180.000	2155.000	190.000	220
GR	2156.500	195.000	2161.500	200.000	2161.700	315.000	2169.000	362.000	2170.100	500.000	225
GR	2170.000	600.000	2169.000	700.000	2167.000	765.000	2168.000	800.000	2166.400	850.000	230
GR	2168.900	900.000	2168.000	1000.000	2164.900	1035.000	2167.400	1100.000	2167.700	1200.000	235
GR	2167.200	1300.000	2167.800	1400.000	2166.600	1500.000	2166.800	1600.000	2167.500	1610.000	240
GR	2163.800	1622.000	2166.800	1632.000	2172.500	1700.000	2176.900	1800.000	0.0	0.0	245
NC	0.050	0.120	0.045	0.100	0.500	0.0	0.0	0.0	0.0	0.0	250
QT	6.000	1700.000	2740.000	3470.000	5280.000	3470.000	3470.000	0.0	0.0	0.0	255
ET	0.0	0.0	0.0	0.0	0.0	0.0	8.100	235.000	355.000	0.0	265
X1	1.220	14.000	255.000	325.000	895.000	895.000	895.000	0.0	0.0	0.0	270
GR	2195.000	0.0	2167.200	20.000	2184.000	140.000	2181.100	150.000	2180.200	205.000	275
GR	2172.900	220.000	2174.200	255.000	2168.300	256.000	2167.200	295.000	2171.000	325.000	280
GR	2174.700	450.000	2176.900	555.000	2177.700	640.000	2190.000	640.000	0.0	0.0	285
ET	0.0	0.0	0.0	0.0	0.0	0.0	8.100	200.000	400.000	0.0	300
X1	1.220	15.000	255.000	333.000	30.000	30.000	30.000	0.0	0.0	0.0	305
GR	2195.000	0.0	2167.200	20.000	2184.000	140.000	2181.100	150.000	2180.200	205.000	310
GR	2174.900	220.000	2174.800	240.000	2168.000	280.000	2166.900	310.000	2168.000	320.000	315
GR	2168.100	333.000	2172.000	348.000	2181.700	465.000	2179.200	640.000	2190.000	640.000	320
ET	0.0	0.0	0.0	0.0	0.0	0.0	8.100	200.000	400.000	0.0	340
X1	1.220	37.000	200.000	400.000	5.000	5.000	5.000	0.0	0.0	0.0	345
BT	6.000	18.000	2191.400	0.0	200.000	2187.200	0.0	200.000	2187.200	2185.200	350
BT	400.000	183.100	2181.200	400.000	2183.100	0.0	640.000	2179.200	0.0	0.0	355
GR	2191.400	18.000	2187.200	200.000	2182.200	200.000	2178.000	210.000	2185.000	210.000	370
GR	2184.700	211.000	2178.900	211.000	2175.000	220.000	2184.600	220.000	2184.500	221.000	375
GR	2175.000	221.000	2174.700	240.000	2184.300	240.000	2184.200	241.000	2174.600	241.000	380
GR	2170.000	270.000	2174.000	270.000	2173.900	271.000	2168.000	280.000	2183.500	280.000	385
GR	2185.400	281.000	2168.000	281.000	2167.000	310.000	2183.000	310.000	2182.900	311.000	390
GR	2167.000	311.000	2168.000	321.000	2168.100	338.000	2172.000	350.000	2182.200	350.000	395
GR	2180.000	354.000	2172.000	354.000	2175.200	365.000	2179.500	400.000	2183.100	400.000	400
GR	2179.200	440.000	2190.000	640.000	0.0	0.0	0.0	0.0	0.0	0.0	405
ET	0.0	0.0	0.0	0.0	0.0	0.0	8.100	200.000	400.000	0.0	420
X1	1.220	0.0	0.0	0.0	30.000	30.000	30.000	0.0	0.0	0.0	425
X2	0.0	0.0	0.0	0.0	0.0	0.0	1.000	0.0	0.0	0.0	430
NC	0.090	0.070	0.045	0.100	0.500	0.0	0.0	0.0	0.0	0.0	435
ET	0.0	0.0	0.0	0.0	0.0	0.0	8.100	200.000	400.000	0.0	445
X1	1.220	15.000	240.000	333.000	5.000	5.000	5.000	0.0	0.0	0.0	450
GR	2195.000	0.0	2167.200	20.000	2184.000	140.000	2181.100	150.000	2180.200	205.000	455
GR	2174.900	220.000	2174.800	240.000	2168.000	280.000	2166.900	310.000	2168.000	320.000	460
GR	2168.100	333.000	2172.000	348.000	2181.700	465.000	2179.200	640.000	2190.000	640.000	465
ET	0.0	0.0	0.0	0.0	0.0	0.0	8.100	200.000	400.000	0.0	485
X1	1.220	14.000	255.000	325.000	20.000	20.000	20.000	0.0	0.0	0.0	490
GR	2195.000	0.0	2167.200	20.000	2184.000	140.000	2181.100	150.000	2180.200	205.000	495
GR	2172.900	220.000	2174.200	255.000	2168.300	256.000	2167.200	295.000	2171.000	325.000	500
GR	2174.700	450.000	2176.900	555.000	2177.700	640.000	2190.000	640.000	0.0	0.0	505
ET	0.0	0.0	0.0	0.0	0.0	0.0	8.100	200.000	400.000	0.0	520
X1	1.230	0.0	0.0	0.0	20.000	20.000	20.000	0.0	0.0	0.0	525



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MODIFICATIONS 52,53,54,55,56,57,58,59  
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T1      TRANSYLVANIA CO NC      0  
T2      100 YEAR FLOODWAY      0  
T3      CATHEYS CR 2-15-77 SFA      0

J1    ICHECK    INQ    NINV    IDIR    STRT    METRIC    HVINS    0    WSEL    EQ    0  
0.    7.    0.    0.    0.0    0.0    0.0    0.    2142.860    0.0

J2    NPKOF    IPILOT    PRFVS    XSECV    XSECH    FN    ALLDC    IBW    CHNIM    ITRACE    0  
15.000    0.0    -1.000    0.0    0.0    0.0    0.0    0.0    0.0    15.000    0.0

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

CATHEYS CR 2-15-77 SFA

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	PERENC	TCPWID	STENCL	STENCR	WSLLK
0.20	0.0	0.0	0.0	2131.90	3700.00	2141.86	1289.52	0.0	1059.25	0.0	0.0	2141.86
0.20	0.0	0.0	0.0	2131.90	3700.00	2142.86	1176.79	300.00	300.00	100.00	460.00	2142.86
0.50	2000.00	0.0	0.0	2141.90	3530.00	2147.89	263.75	0.0	97.31	0.0	0.0	0.0
0.50	2000.00	0.0	0.0	2141.90	3530.00	2148.32	308.57	120.00	64.83	300.00	420.00	0.0
0.82	520.00	0.0	0.0	2147.00	3520.00	2155.32	347.87	0.0	88.10	0.0	0.0	0.0
0.82	520.00	0.0	0.0	2147.00	3520.00	2154.96	313.37	120.00	72.27	100.00	220.00	0.0
1.03	1000.00	0.0	0.0	2155.00	3500.00	2162.91	512.06	0.0	232.94	0.0	0.0	0.0
1.03	1000.00	0.0	0.0	2155.00	3500.00	2163.21	516.69	140.00	153.39	80.00	220.00	0.0
1.22	695.00	0.0	0.0	2167.20	3470.00	2172.70	262.24	0.0	127.34	0.0	0.0	0.0
1.22	695.00	0.0	0.0	2167.20	3470.00	2172.67	258.31	120.00	99.74	235.00	355.00	0.0
1.22	30.00	0.0	0.0	2166.90	3470.00	2174.26	486.56	0.0	136.53	0.0	0.0	0.0
1.22	30.00	0.0	0.0	2166.90	3470.00	2174.27	487.98	200.00	136.77	200.00	400.00	0.0
1.22	5.00	2179.20	2185.20	2167.00	3470.00	2174.42	402.46	0.0	129.37	0.0	0.0	0.0
1.22	5.00	2179.20	2185.20	2167.00	3470.00	2174.43	403.85	200.00	129.55	200.00	400.00	0.0
1.22	30.00	2179.20	2185.20	2167.00	3470.00	2174.71	431.16	0.0	133.69	0.0	0.0	0.0
1.22	30.00	2179.20	2185.20	2167.00	3470.00	2174.72	438.48	200.00	134.59	200.00	400.00	0.0
1.22	5.00	0.0	0.0	2166.90	3470.00	2174.73	580.87	0.0	146.31	0.0	0.0	0.0
1.22	5.00	0.0	0.0	2166.90	3470.00	2174.74	582.42	200.00	146.55	200.00	400.00	0.0
1.22	20.00	0.0	0.0	2167.20	3470.00	2175.79	575.95	0.0	258.09	0.0	0.0	0.0
1.22	20.00	0.0	0.0	2167.20	3470.00	2175.80	578.73	200.00	163.90	200.00	400.00	0.0
1.22	20.00	0.0	0.0	2167.20	3470.00	2174.90	598.64	0.0	243.48	0.0	0.0	0.0
1.22	20.00	0.0	0.0	2167.20	3470.00	2174.90	597.00	200.00	164.10	200.00	400.00	0.0
1.22	5.00	2182.70	2184.20	2166.00	3470.00	2174.20	222.49	0.0	63.07	0.0	0.0	0.0
1.22	5.00	2182.70	2184.20	2166.00	3470.00	2174.20	222.49	120.00	63.07	200.00	380.00	0.0
1.22	20.00	2182.70	2188.20	2166.00	3470.00	2175.36	531.19	0.0	102.51	0.0	0.0	0.0
1.22	20.00	2182.70	2188.20	2166.00	3470.00	2175.86	531.19	120.00	102.51	200.00	380.00	0.0
1.22	5.00	0.0	0.0	2166.40	3470.00	2176.45	672.74	0.0	260.01	0.0	0.0	0.0
1.22	5.00	0.0	0.0	2166.40	3470.00	2176.21	551.42	120.00	120.00	200.00	380.00	0.0
1.22	20.00	0.0	0.0	2166.40	3470.00	2176.50	685.71	0.0	265.63	0.0	0.0	0.0
1.22	20.00	0.0	0.0	2166.40	3470.00	2176.32	554.74	120.00	120.00	200.00	380.00	0.0
1.22	115.00	0.0	0.0	2168.50	3460.00	2177.00	1162.06	0.0	649.96	0.0	0.0	0.0
1.22	115.00	0.0	0.0	2168.50	3460.00	2175.80	885.99	120.00	120.00	300.00	420.00	0.0
1.40	750.00	0.0	0.0	2181.00	3430.00	2190.67	309.56	0.0	171.77	0.0	0.0	0.0
1.40	750.00	0.0	0.0	2181.00	3430.00	2190.49	274.95	100.00	80.11	40.00	140.00	0.0
1.51	570.00	0.0	0.0	2184.00	3430.00	2195.62	546.04	0.0	194.45	0.0	0.0	0.0
1.51	570.00	0.0	0.0	2184.00	3430.00	2196.33	529.69	100.00	96.25	40.00	140.00	0.0



SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
0.200	3700.000	2141.859	0.0	0.0	0.0	1059.248	0.0	0.0
0.200	3700.000	2142.859	1.000	0.0	0.0	359.999	699.250	0.0
0.680	3530.000	2147.887	0.0	6.028	0.0	97.310	0.0	2600.000
0.680	3530.000	2148.321	0.434	5.461	0.0	84.826	12.484	2600.000
0.820	3520.000	2155.324	0.0	7.437	0.0	88.104	0.0	520.000
0.820	3520.000	2154.977	-0.346	6.657	0.0	72.271	15.833	520.000
1.050	3500.000	2162.906	0.0	7.585	0.0	232.936	0.0	1000.000
1.050	3500.000	2163.200	0.294	6.229	0.0	133.393	99.543	1000.000
1.220	3470.000	2172.704	0.0	9.798	0.0	127.339	0.0	895.000
1.220	3470.000	2172.667	-0.037	9.461	0.0	99.739	27.600	895.000
1.220	3470.000	2174.257	0.0	1.553	0.0	136.534	0.0	30.000
1.220	3470.000	2174.269	0.012	1.605	0.0	136.765	-0.231	30.000
1.220	3470.000	2174.422	0.0	0.165	0.0	129.372	0.0	5.000
1.220	3470.000	2174.434	0.011	0.164	0.0	129.555	-0.183	5.000
1.220	3470.000	2174.710	0.0	0.288	0.0	133.889	0.0	30.000
1.220	3470.000	2174.719	0.009	0.286	0.0	134.587	-0.698	30.000
1.220	3470.000	2174.751	0.0	0.021	0.0	146.309	0.0	5.000
1.220	3470.000	2174.740	0.009	0.021	0.0	146.500	-0.191	5.000
1.220	3470.000	2174.787	0.0	0.056	0.0	238.087	0.0	20.000
1.220	3470.000	2174.796	0.009	0.056	0.0	183.890	54.191	20.000
1.230	3470.000	2174.899	0.0	0.109	0.0	243.478	0.0	20.000
1.230	3470.000	2174.896	-0.001	0.099	0.0	184.100	59.378	20.000
1.230	3470.000	2174.199	0.0	-0.697	0.0	63.070	0.0	5.000
1.230	3470.000	2174.199	0.0	-0.696	0.0	63.070	0.0	5.000
1.230	3470.000	2175.858	0.0	1.659	0.0	102.508	0.0	20.000
1.230	3470.000	2175.858	0.0	1.659	0.0	102.506	0.001	20.000
1.230	3470.000	2176.249	0.0	0.571	0.0	260.007	0.0	5.000
1.230	3470.000	2176.215	-0.214	0.357	0.0	119.999	140.008	5.000
1.230	3470.000	2176.500	0.0	0.071	0.0	265.626	0.0	20.000
1.230	3470.000	2176.319	-0.181	0.104	0.0	119.999	143.627	20.000
1.260	3460.000	2176.997	0.0	0.497	0.0	649.960	0.0	115.000
1.260	3460.000	2176.501	-0.196	0.482	0.0	119.999	529.961	115.000
1.400	3430.000	2190.672	0.0	13.276	0.0	171.766	0.0	730.000
1.400	3430.000	2190.486	-0.186	13.686	0.0	80.109	91.657	730.000
1.510	3430.000	2196.624	0.0	4.951	0.0	194.448	0.0	570.000
1.510	3430.000	2196.327	0.704	5.841	0.0	96.250	98.198	570.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE LINC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	54.105	0.0
2	1.000	100.000	12.600	-31.505







\*\*\*\*\*  
 FEC2 VERSILN UPDATED AUG 1976  
 ERROR CORRECT ILNS 01,02,03,04,05,06,07,08,09,10  
 MODIFICATIONS 52,53,54,55,56,57,58,59  
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T1 PENNSYLVANIA CO NC 5  
 T2 10 YEAR 10  
 T3 CATHEYS CR 11-20-76 SFA 15

J1	ICHECK	INW	NINW	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ	
	0.	2.	0.	0.	0.000820	0.0	0.0	0.	0.0	0.0	20
J2	IPRPF	IPLCT	PRFVS	XSECV	XSECH	FN	ALLOC	IRW	CHNIM	ITRACE	
	1.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.000	
NC	0.150	0.000	0.045	0.100	0.500	0.0	0.0	0.0	0.0	0.0	30
QT	6.000	1800.000	3000.000	3700.000	5700.000	3700.000	3700.000	3700.000	0.0	0.0	35
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.100	0.0	0.0	40
X1	0.200	28.000	152.000	200.000	0.0	0.0	0.0	0.0	0.0	0.0	45
GF	2154.000	0.0	2141.000	30.000	2139.500	100.000	2140.800	152.000	2133.200	155.000	50
GF	2131.900	182.000	2133.200	192.000	2140.200	200.000	2138.400	400.000	2139.800	500.000	55
GF	2139.700	800.000	2139.000	700.000	2140.000	800.000	2140.900	1000.000	2142.000	1100.000	60
GF	2142.500	1200.000	2144.800	1400.000	2144.800	1500.000	2145.100	1600.000	2145.800	1700.000	65
GF	2146.000	1800.000	2146.000	1900.000	2147.000	2000.000	2147.000	2100.000	2148.200	2200.000	70
GF	2150.000	2400.000	2156.000	2565.000	2159.000	2600.000	0.0	0.0	0.0	0.0	75
NC	0.150	0.000	0.045	0.100	0.500	0.0	0.0	0.0	0.0	0.0	80
QT	6.000	1700.000	2780.000	3530.000	5330.000	3530.000	3530.000	3530.000	0.0	0.0	85
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.100	0.0	0.0	90
X1	0.600	30.000	320.000	400.000	2600.000	2600.000	2600.000	0.0	0.0	0.0	95
GF	2162.800	200.000	2155.200	282.000	2150.200	300.000	2148.800	320.000	2144.000	328.000	100
GF	2141.900	350.000	2143.300	350.000	2144.000	380.000	2143.900	392.000	2147.300	400.000	105
GF	2149.500	412.000	2151.300	462.000	2150.200	500.000	2150.100	518.000	2149.500	615.000	110
GF	2149.500	628.000	2149.500	700.000	2150.200	800.000	2149.800	900.000	2151.700	1100.000	115
GF	2150.700	1000.000	2150.500	1400.000	2151.100	1475.000	2147.000	1482.000	2147.000	1495.000	120
GF	2151.000	1500.000	2150.000	1700.000	2151.400	1800.000	2150.500	2000.000	2151.000	2100.000	125
GF	2153.200	2100.000	2150.500	2200.000	2160.300	2320.000	0.0	0.0	0.0	0.0	130
NC	0.150	0.000	0.045	0.100	0.500	0.0	0.0	0.0	0.0	0.0	135
QT	6.000	1720.000	2270.000	3530.000	5320.000	3530.000	3520.000	3520.000	0.0	0.0	140
X1	0.820	38.000	110.000	200.000	520.000	520.000	520.000	0.0	0.0	0.0	150
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.100	0.0	0.0	145
GF	2172.000	0.0	2167.000	95.000	2157.000	110.000	2147.000	120.000	2151.400	170.000	155
GF	2158.900	200.000	2157.500	400.000	2159.000	500.000	2158.700	515.000	2155.000	520.000	160
GF	2155.000	500.000	2157.700	560.000	2158.200	600.000	2156.000	600.000	2158.200	630.000	165
GF	2159.200	680.000	2157.400	682.000	2157.400	695.000	2160.700	800.000	2162.800	815.000	170
GF	2160.700	1000.000	2160.200	1100.000	2160.900	1200.000	2161.100	1300.000	2160.200	1400.000	175
GF	2161.700	1400.000	2165.000	1482.000	2158.000	1490.000	2158.000	1502.000	2164.100	1512.000	180
GF	2163.000	1600.000	2163.700	1700.000	2163.900	1800.000	2168.000	2000.000	2175.200	2100.000	185
GF	2173.500	2150.000	2175.300	2170.000	2180.500	2182.000	0.0	0.0	0.0	0.0	190
NC	0.150	0.000	0.045	0.100	0.500	0.0	0.0	0.0	0.0	0.0	195
QT	6.000	1700.000	2750.000	3500.000	5300.000	3500.000	3500.000	3500.000	0.0	0.0	200

ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.100	0.0	0.0	0.0	205
X1	1.030	34.000	100.000	200.000	1000.000	1000.000	1000.000	1000.000	0.0	0.0	0.0	210
GR	2173.200	2.000	2167.400	40.000	2162.000	100.000	2160.000	100.000	2156.000	112.000		215
GR	2160.000	115.000	2159.300	160.000	2155.000	165.000	2155.200	180.000	2155.000	190.000		220
GR	2156.500	195.000	2161.500	200.000	2161.700	315.000	2169.000	362.000	2170.100	500.000		225
GR	2170.000	600.000	2169.000	700.000	2167.000	765.000	2168.000	800.000	2166.400	850.000		230
GR	2168.900	900.000	2168.000	1000.000	2164.900	1035.000	2167.400	1100.000	2167.700	1200.000		235
GR	2167.200	1300.000	2167.800	1400.000	2166.600	1500.000	2166.800	1600.000	2167.500	1610.000		240
GR	2163.800	1620.000	2166.800	1632.000	2172.500	1700.000	2176.900	1800.000	0.0	0.0		245
NC	0.050	0.120	0.045	0.100	0.500	0.0	0.0	0.0	0.0	0.0		250
QT	6.000	1700.000	2740.000	3470.000	5280.000	3470.000	3470.000	0.0	0.0	0.0		255
NI	0.050	0.120	0.045	0.100	0.500	0.0	0.0	0.0	0.0	0.0		260
FT	0.0	0.0	0.0	0.0	0.0	0.0	8.100	0.0	0.0	0.0		265
X1	1.220	14.000	255.000	325.000	895.000	895.000	895.000	0.0	0.0	0.0		270
GR	2195.000	0.0	2187.200	20.000	2184.000	140.000	2181.100	150.000	2180.200	205.000		275
GR	2172.900	220.000	2174.200	255.000	2168.300	256.000	2167.200	295.000	2171.000	325.000		280
GR	2174.700	450.000	2176.900	555.000	2177.700	640.000	2190.000	640.000	0.0	0.0		285
FT	0.0	0.0	0.0	0.0	0.0	0.0	8.100	0.0	0.0	0.0		300
X1	1.220	15.000	255.000	333.000	30.000	30.000	30.000	0.0	0.0	0.0		305
GR	2195.000	0.0	2187.200	20.000	2184.000	140.000	2181.100	150.000	2180.200	205.000		310
GR	2174.900	220.000	2174.800	240.000	2168.000	280.000	2166.900	310.000	2168.000	320.000		315
GR	2168.100	330.000	2172.000	348.000	2181.700	485.000	2179.200	640.000	2190.000	640.000		320
FT	0.0	0.0	0.0	0.0	0.0	0.0	8.100	0.0	0.0	0.0		340
X1	1.220	37.000	200.000	400.000	5.000	5.000	5.000	0.0	0.0	0.0		345
RT	6.000	18.000	2191.400	0.0	200.000	2187.200	0.0	200.000	2187.200	2185.200		350
PT	400.000	2180.100	2181.700	400.000	2183.100	0.0	640.000	2179.200	0.0	0.0		355
GR	2191.400	18.000	2187.200	200.000	2182.200	200.000	2178.000	210.000	2185.000	210.000		370
GR	2184.700	211.000	2178.000	211.000	2175.000	220.000	2184.600	220.000	2184.500	221.000		375
GR	2175.000	221.000	2174.700	240.000	2184.300	240.000	2184.200	241.000	2174.600	241.000		380
GR	2170.000	270.000	2174.000	270.000	2173.900	271.000	2168.000	280.000	2183.500	280.000		385
GR	2183.400	281.000	2168.000	281.000	2167.000	310.000	2183.000	310.000	2182.900	311.000		390
GR	2167.000	311.000	2168.000	321.000	2168.100	338.000	2172.000	350.000	2182.200	350.000		395
GR	2180.000	354.000	2172.000	354.000	2175.200	385.000	2179.500	400.000	2183.100	400.000		400
GR	2179.200	640.000	2190.000	640.000	0.0	0.0	0.0	0.0	0.0	0.0		405
FT	0.0	0.0	0.0	0.0	0.0	0.0	8.100	0.0	0.0	0.0		420
X1	1.220	0.0	0.0	0.0	30.000	30.000	30.000	0.0	0.0	0.0		425
Y2	0.0	0.0	0.0	0.0	0.0	0.0	1.000	0.0	0.0	0.0		430
NC	0.000	0.000	0.045	0.100	0.500	0.0	0.0	0.0	0.0	0.0		435
NI	0.000	0.000	0.045	0.100	0.500	0.0	0.0	0.0	0.0	0.0		440
FT	0.0	0.0	0.0	0.0	0.0	0.0	8.100	0.0	0.0	0.0		445
X1	1.220	15.000	240.000	333.000	5.000	5.000	5.000	0.0	0.0	0.0		450
GR	2195.000	0.0	2187.200	20.000	2184.000	140.000	2181.100	150.000	2180.200	205.000		455
GR	2174.900	220.000	2174.800	240.000	2168.000	280.000	2166.900	310.000	2168.000	320.000		460
GR	2168.100	330.000	2172.000	348.000	2181.700	485.000	2179.200	640.000	2190.000	640.000		465
FT	0.0	0.0	0.0	0.0	0.0	0.0	8.100	0.0	0.0	0.0		485
X1	1.220	14.000	255.000	325.000	20.000	20.000	20.000	0.0	0.0	0.0		490
GR	2195.000	0.0	2187.200	20.000	2184.000	140.000	2181.100	150.000	2180.200	205.000		495
GR	2172.900	220.000	2174.200	255.000	2168.300	256.000	2167.200	295.000	2171.000	325.000		500
GR	2174.700	450.000	2176.900	555.000	2177.700	640.000	2190.000	640.000	0.0	0.0		505
FT	0.0	0.0	0.0	0.0	0.0	0.0	8.100	0.0	0.0	0.0		520











SUMMARY PRINTOUT FOR MULTIPLE PROFILES

CATFYS CREEK 11-20-76 S

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	CRWS	CG	TOPWID	LOK*S	TIME	VOL
0.20	0.0	0.0	0.0	2131.90	1850.00	2140.74	0.0	2140.84	919.44	8.14	0.0	0.0
0.20	0.0	0.0	0.0	2131.90	3000.00	2141.51	0.0	2141.59	1026.47	8.76	0.0	0.0
0.20	0.0	0.0	0.0	2131.90	3700.00	2141.86	0.0	2141.95	1059.52	9.21	0.0	0.0
0.20	0.0	0.0	0.0	2131.90	5700.00	2142.75	0.0	2142.84	1157.49	8.07	0.0	0.0
0.68	2600.00	0.0	0.0	2141.90	1730.00	2146.21	2146.21	2147.51	73.13	221.32	0.08	44.05
0.68	2600.00	0.0	0.0	2141.90	2780.00	2147.27	2147.27	2148.92	91.15	192.61	0.07	69.18
0.68	2600.00	0.0	0.0	2141.90	3530.00	2147.89	2147.89	2149.75	97.31	179.13	0.07	81.97
0.68	2600.00	0.0	0.0	2141.90	5330.00	2150.48	2150.48	2151.48	774.36	58.49	0.09	130.30
0.82	520.00	0.0	0.0	2147.00	1720.00	2153.47	0.0	2154.25	64.76	83.80	0.10	46.63
0.82	520.00	0.0	0.0	2147.00	2270.00	2154.38	0.0	2155.24	69.34	75.83	0.09	72.72
0.82	520.00	0.0	0.0	2147.00	3520.00	2155.32	0.0	2156.71	89.10	102.39	0.08	96.16
0.82	520.00	0.0	0.0	2147.00	5320.00	2155.93	2155.93	2158.39	98.57	166.18	0.11	138.64
1.03	1000.00	0.0	0.0	2155.00	1700.00	2161.07	0.0	2161.52	99.56	63.07	0.15	53.04
1.03	1000.00	0.0	0.0	2155.00	2750.00	2161.94	0.0	2162.63	216.53	71.96	0.13	81.18
1.03	1000.00	0.0	0.0	2155.00	3500.00	2162.91	0.0	2163.46	232.94	46.72	0.13	98.07
1.03	1000.00	0.0	0.0	2155.00	5300.00	2164.43	0.0	2164.95	263.81	33.31	0.16	155.49
1.22	895.00	0.0	0.0	2167.20	1700.00	2170.97	2170.97	2172.32	69.23	229.32	0.13	58.15
1.22	895.00	0.0	0.0	2167.20	2740.00	2172.04	2172.04	2173.77	104.91	191.89	0.15	88.54
1.22	895.00	0.0	0.0	2167.20	3470.00	2172.70	2172.70	2174.62	127.34	175.08	0.15	108.47
1.22	895.00	0.0	0.0	2167.20	5280.00	2174.25	2174.25	2176.25	217.56	133.13	0.19	172.47
1.22	30.00	0.0	0.0	2166.90	1700.00	2172.21	0.0	2172.68	95.69	48.30	0.18	58.33
1.22	30.00	0.0	0.0	2166.90	2740.00	2173.50	0.0	2174.14	121.53	50.12	0.16	88.80
1.22	30.00	0.0	0.0	2166.90	3470.00	2174.26	0.0	2174.99	136.53	50.00	0.15	108.79
1.22	30.00	0.0	0.0	2166.90	5280.00	2175.73	0.0	2176.62	183.06	59.98	0.18	172.96
1.22	5.00	2179.20	2185.20	2167.00	1700.00	2172.25	0.0	2172.71	91.15	70.94	0.18	58.36
1.22	5.00	2179.20	2185.20	2167.00	2740.00	2173.61	0.0	2174.18	114.97	75.86	0.16	88.85
1.22	5.00	2179.20	2185.20	2167.00	3470.00	2174.42	0.0	2175.03	129.37	74.34	0.15	108.85
1.22	5.00	2179.20	2185.20	2167.00	5280.00	2175.97	0.0	2176.67	162.64	73.52	0.13	173.05
1.22	30.00	2179.20	2185.20	2167.00	1700.00	2172.52	0.0	2172.91	95.80	59.29	0.18	58.59
1.22	30.00	2179.20	2185.20	2167.00	2740.00	2173.93	0.0	2174.39	120.13	63.43	0.16	89.18
1.22	30.00	2179.20	2185.20	2167.00	3470.00	2174.71	0.0	2175.25	133.89	62.71	0.15	109.25
1.22	30.00	2179.20	2185.20	2167.00	5280.00	2176.26	0.0	2176.88	164.47	62.55	0.19	173.61
1.22	5.00	0.0	0.0	2166.90	1700.00	2172.57	0.0	2172.93	102.70	35.35	0.14	58.63
1.22	5.00	0.0	0.0	2166.90	2740.00	2173.74	0.0	2174.42	130.34	35.70	0.16	89.24
1.22	5.00	0.0	0.0	2166.90	3470.00	2174.73	0.0	2175.27	146.31	35.69	0.15	109.32
1.22	5.00	0.0	0.0	2166.90	5280.00	2176.25	0.0	2176.94	191.82	34.28	0.18	173.70
1.22	20.00	0.0	0.0	2167.20	1700.00	2172.60	0.0	2173.06	123.64	44.71	0.13	59.79
1.22	20.00	0.0	0.0	2167.20	2740.00	2173.97	0.0	2174.53	201.63	40.11	0.16	89.48
1.22	20.00	0.0	0.0	2167.20	3470.00	2174.79	0.0	2175.36	238.09	36.30	0.16	109.63
1.22	20.00	0.0	0.0	2167.20	5280.00	2176.49	0.0	2177.01	323.00	27.66	0.18	174.19

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	CRWS	EG	TOPWID	LOK*5	TIME	VOL
1.23	20.00	0.0	0.0	2167.20	1700.00	2172.72	0.0	2173.15	127.73	40.41	0.18	58.95
1.23	20.00	0.0	0.0	2167.20	2740.00	2174.09	0.0	2174.61	208.80	37.00	0.16	89.75
1.23	20.00	0.0	0.0	2167.20	3470.00	2174.90	0.0	2175.43	243.48	33.59	0.16	109.98
1.23	20.00	0.0	0.0	2167.20	5200.00	2176.56	0.0	2177.07	326.08	26.66	0.18	174.75
1.23	5.00	2182.70	2184.50	2166.00	1700.00	2172.34	0.0	2173.60	50.64	175.78	0.18	58.98
1.23	5.00	2182.70	2184.50	2166.00	2740.00	2173.44	0.0	2175.33	58.01	231.24	0.16	89.79
1.23	5.00	2182.70	2184.50	2166.00	3470.00	2174.20	2174.20	2176.36	63.07	243.24	0.16	110.04
1.23	5.00	2182.70	2184.50	2166.00	5200.00	2175.86	2175.86	2178.03	102.52	253.68	0.18	174.35
1.23	20.00	2182.70	2184.50	2166.00	1700.00	2173.03	0.0	2173.92	55.17	114.60	0.18	59.07
1.23	20.00	2182.70	2184.50	2166.00	2740.00	2174.77	0.0	2175.79	96.55	153.86	0.16	89.93
1.23	20.00	2182.70	2184.50	2166.00	3470.00	2175.86	0.0	2176.80	102.51	109.77	0.16	110.21
1.23	20.00	2182.70	2184.50	2166.00	5280.00	2177.19	0.0	2178.45	106.00	113.76	0.18	175.09
1.23	5.00	0.0	0.0	2168.40	1700.00	2173.39	0.0	2173.99	109.81	63.95	0.18	59.10
1.23	5.00	0.0	0.0	2168.40	2740.00	2175.38	0.0	2175.88	214.22	34.84	0.16	89.98
1.23	5.00	0.0	0.0	2168.40	3470.00	2176.43	0.0	2176.87	260.01	26.67	0.16	110.28
1.23	5.00	0.0	0.0	2168.40	5280.00	2178.13	0.0	2178.56	344.89	21.42	0.18	175.20
1.23	20.00	0.0	0.0	2168.40	1700.00	2173.57	0.0	2174.11	115.88	54.48	0.17	59.24
1.23	20.00	0.0	0.0	2168.40	2740.00	2175.47	0.0	2175.95	218.39	32.50	0.16	90.26
1.23	20.00	0.0	0.0	2168.40	3470.00	2176.50	0.0	2176.92	263.63	25.39	0.16	110.67
1.23	20.00	0.0	0.0	2168.40	5280.00	2178.19	0.0	2178.60	353.05	20.73	0.18	175.83
1.26	115.00	0.0	0.0	2168.50	1695.00	2174.29	0.0	2174.52	228.08	22.24	0.19	60.38
1.26	115.00	0.0	0.0	2168.50	2735.00	2176.04	0.0	2176.19	525.07	12.20	0.17	92.70
1.26	115.00	0.0	0.0	2168.50	3460.00	2177.00	0.0	2177.12	649.96	8.37	0.17	114.18
1.26	115.00	0.0	0.0	2168.50	5270.00	2178.66	0.0	2178.75	1117.37	5.83	0.20	181.99
1.40	730.00	0.0	0.0	2181.00	1690.00	2187.65	2187.65	2189.75	34.74	210.96	0.21	66.20
1.40	730.00	0.0	0.0	2181.00	2710.00	2190.00	2190.00	2191.74	168.76	120.26	0.19	105.92
1.40	730.00	0.0	0.0	2181.00	3430.00	2190.67	2190.67	2192.56	171.77	122.54	0.19	133.07
1.40	730.00	0.0	0.0	2181.00	5230.00	2192.03	2192.03	2194.17	185.60	125.04	0.22	215.39
1.51	570.00	0.0	0.0	2184.00	1680.00	2193.41	0.0	2193.94	170.00	34.74	0.24	69.90
1.51	570.00	0.0	0.0	2184.00	2700.00	2194.73	0.0	2195.42	181.84	39.40	0.22	112.53
1.51	570.00	0.0	0.0	2184.00	3430.00	2195.62	0.0	2196.32	194.45	39.17	0.22	141.45
1.51	570.00	0.0	0.0	2184.00	5210.00	2197.26	0.0	2198.06	193.39	40.49	0.24	229.03

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
0.270	1850.000	2140.738	0.0	0.0	0.0	919.444	0.0	0.0
0.280	3000.000	2141.507	0.769	0.0	0.0	1026.466	-107.021	0.0
0.290	3700.000	2141.862	0.355	0.0	0.0	1059.524	-140.080	0.0
0.290	5700.000	2142.750	0.888	0.0	0.0	1157.490	-138.046	0.0
0.680	1700.000	2146.212	0.0	5.474	0.0	73.130	0.0	2600.000
0.680	2700.000	2147.266	1.054	5.758	0.0	91.149	-18.019	2600.000
0.680	3500.000	2147.887	0.621	6.024	0.0	97.310	-24.180	2600.000
0.680	5300.000	2150.479	2.591	7.728	0.0	114.357	-701.228	2600.000
0.820	1720.000	2153.474	0.0	7.262	0.0	64.757	0.0	520.000
0.820	2270.000	2154.378	0.904	7.113	0.0	69.338	-4.580	520.000
0.820	3520.000	2155.324	0.946	7.437	0.0	38.104	-23.347	520.000
0.820	5320.000	2155.926	0.602	5.448	0.0	98.569	-33.812	520.000
1.030	1700.000	2161.072	0.0	7.598	0.0	99.565	0.0	1000.000
1.030	2750.000	2161.938	0.866	7.559	0.0	216.530	-116.966	1000.000
1.030	3500.000	2162.906	0.969	7.583	0.0	232.936	-133.371	1000.000

1.030	5300.000	2164.433	1.527	8.508	0.0	263.815	-164.250	1000.000
1.220	1700.000	2170.972	0.0	9.900	0.0	69.233	0.0	895.000
1.220	2740.000	2172.044	1.072	10.106	0.0	104.914	-35.681	895.000
1.220	3470.000	2172.704	0.661	9.798	0.0	127.339	-58.105	895.000
1.220	5280.000	2174.249	1.545	9.816	0.0	217.563	-149.330	895.000
1.220	1700.000	2172.208	0.0	1.236	0.0	95.690	0.0	30.000
1.220	2740.000	2173.503	1.295	1.459	0.0	121.529	-25.830	30.000
1.220	3470.000	2174.257	0.754	1.553	0.0	136.534	-40.844	30.000
1.220	5280.000	2175.731	1.474	1.482	0.0	183.060	-87.171	30.000
1.220	1700.000	2172.253	0.0	0.045	0.0	91.143	0.0	5.000
1.220	2740.000	2173.612	1.359	0.109	0.0	114.972	-21.824	5.000
1.220	3470.000	2174.422	0.810	0.165	0.0	129.372	-38.224	5.000
1.220	5280.000	2175.973	1.551	0.242	0.0	162.635	-71.489	5.000
1.220	1700.000	2172.518	0.0	0.265	0.0	95.798	0.0	30.000
1.220	2740.000	2173.904	1.386	0.292	0.0	120.129	-24.331	30.000
1.220	3470.000	2174.717	0.806	0.288	0.0	133.899	-38.091	30.000
1.220	5280.000	2176.259	1.549	0.286	0.0	164.474	-68.676	30.000
1.220	1700.000	2172.566	0.0	0.049	0.0	102.696	0.0	5.000
1.220	2740.000	2173.938	1.372	0.034	0.0	130.339	-27.643	5.000
1.220	3470.000	2174.731	0.793	0.021	0.0	136.309	-43.613	5.000
1.220	5280.000	2176.247	1.510	-0.011	0.0	191.819	-89.123	5.000
1.220	1700.000	2172.595	0.0	0.029	0.0	123.636	0.0	20.000
1.220	2740.000	2173.974	1.379	0.030	0.0	201.629	-77.993	20.000
1.220	3470.000	2174.787	0.813	0.056	0.0	238.087	-114.451	20.000
1.220	5280.000	2176.452	1.705	0.245	0.0	323.000	-199.164	20.000
1.230	1700.000	2172.716	0.0	0.120	0.0	127.720	0.0	20.000
1.230	2740.000	2174.039	1.373	0.114	0.0	208.801	-81.070	20.000
1.230	3470.000	2174.856	0.808	0.109	0.0	243.478	-115.737	20.000
1.230	5280.000	2176.564	1.668	0.271	0.0	326.083	-198.353	20.000
1.230	1700.000	2172.342	0.0	-0.373	0.0	50.641	0.0	5.000
1.230	2740.000	2173.445	1.103	-0.644	0.0	53.212	-7.371	5.000
1.230	3470.000	2174.199	0.754	-0.697	0.0	63.070	-12.429	5.000
1.230	5280.000	2175.862	1.663	-0.701	0.0	102.523	-61.883	5.000
1.230	1700.000	2172.026	0.0	0.694	0.0	55.107	0.0	20.000
1.230	2740.000	2174.767	1.741	1.323	0.0	96.547	-41.390	20.000
1.230	3470.000	2175.859	1.091	1.659	0.0	102.504	-47.341	20.000
1.230	5280.000	2177.190	1.832	1.328	0.0	196.000	-50.833	20.000
1.230	1700.000	2173.389	0.0	0.363	0.0	109.814	0.0	5.000
1.230	2740.000	2175.375	1.987	0.628	0.0	214.219	-104.405	5.000
1.230	3470.000	2176.429	1.253	0.571	0.0	260.007	-150.193	5.000
1.230	5280.000	2178.135	1.700	0.944	0.0	346.891	-237.077	5.000
1.230	1700.000	2173.574	0.0	0.185	0.0	115.876	0.0	20.000
1.230	2740.000	2175.472	1.398	0.096	0.0	218.391	-102.511	20.000
1.230	3470.000	2176.500	1.028	0.071	0.0	263.626	-147.750	20.000
1.230	5280.000	2178.192	1.690	0.055	0.0	353.047	-237.171	20.000
1.260	1695.000	2174.292	0.0	0.718	0.0	228.032	0.0	115.000
1.260	2735.000	2176.229	1.747	0.567	0.0	525.067	-296.995	115.000
1.260	3465.000	2176.957	0.958	0.497	0.0	649.960	-421.878	115.000
1.260	5275.000	2178.664	1.667	0.474	0.0	1117.367	-889.285	115.000
1.400	1690.000	2187.650	0.0	13.358	0.0	34.744	0.0	730.000
1.400	2710.000	2190.005	2.355	13.966	0.0	168.762	-134.018	730.000
1.400	3430.000	2190.672	0.668	13.676	0.0	171.766	-137.022	730.000
1.400	5230.000	2192.034	1.362	13.371	0.0	185.601	-150.857	730.000

1.510	1680.000	2193.414	0.0	5.764	0.0	170.597	0.0	570.000
1.510	2700.000	2194.781	1.366	4.776	0.0	181.835	-11.238	570.000
1.510	3430.000	2195.624	0.843	4.951	0.0	194.448	-23.851	570.000
1.510	5210.000	2197.256	1.633	5.222	0.0	393.393	-222.796	570.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	38.414	0.0
2	0.0	0.0	52.510	12.096
3	0.0	0.0	54.113	15.699
4	0.0	0.0	89.433	51.019