

```

1 //JOB * *** * *
2 0000 * * 2000 * * 2000 0000
3 1 * * * * *
4 V2IM*1 * ACTUAL*32K**CONFIO*32K
5 1 * * * * *
6 //IX*0 DSKOP * * * * *
7 1 * * * * *
8 1
9
10
11 1 ***** * * *** * * ***** ***** ***
12 1 * * ** ** * * * * * * * * * *
13 1 * * * * * * * * * * * * * *
14 1 ***** * * ***** * * * * *
15 1 * * * * * * * * * * * * * *
16 1 * * * * * * * * * * * * * *
17 1 * * * * * * * * * * * * * *
18 1
19 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901

```

SPENCER, N.C.

SIXTH STREET BRANCH

PROGRAMMER=MAK ACCOUNT=RTI.A25.P03070

JOB TURN-AROUND JOB PARAMETERS TIME USED INCLUDES MISC. JOB VALUES

	DATE	TIME	SPECIFIED	USED	NO.	EQUIVALENT		
ENTERED	10/06/77	15:56:36.5	TIME	2:00.0	0:20.3	CPU	0:07.1	LINES IN 142
EXECUTED	10/06/77	18:23:49.7	PAGES	200	15	UR EXCPS	0:04.0	LINES OUT 761
RETURNED	10/07/77	12:20:38.7	CARDS	0	0	DISK EXCPS	0:09.2	MEMCRY TIME 10130 K-SEC
JOB ENTERED ON THURSDAY			PLOTS	0	0	TAPE READ-WRITE	0:00.0	PRIORITY 00
						TAPE FILE SEARCH	0:00.0	APPROX. COST 54.30

JOB CONSOLE LOG

```

N 19.23.46 JOB 396 -- RMAKSA -- JCL INTERPRETED, TUCC CPU #2
N 18.23.49 JOB 396 -- RMAKSA -- BEGINNING EXEC - INIT 1 - CLASS
L*18.23.49 JOB 396 +++++S=060,T=02,J=RMAS6 18:23:49 MAK
N 18.24.42 JOB 396 END EXECUTION.

```

//RMAK36 JOB RTI.A25.P03078,MAK,M=1,T=2,P=200,PRTY=0

***PROCLT=RTI.MS.PROCLT*

// EXEC REC2

XX6 EXEC PGM=REC2,R=500	00000010
XXSTEPLIB DD DSN=RTI.A25.P03078.JCW.LIB,LOAD,DISP=SHR	00000020
XXFT03F001 DD SYSOUT=A	00000030
XXFT01F001 DD DDNAME=SYSIN	00000040
XXFT91F001 DD DSN=8191,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000050
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000060
XXFT92F001 DD DSN=8192,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000070
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000080
XXFT93F001 DD DSN=8193,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000090
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000100
XXFT94F001 DD DSN=8194,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000110
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000120
XXFT95F001 DD DSN=8195,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000130
XX DCB=(BUFNO=1,RECFM=FB,LRECL=1000,BLKSIZE=6400)	00000140
XXFT96F001 DD DSN=8196,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000150
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000160

//SYSIN DD *

//

IEF2362 ALLOC. FOR RMAK36 6

IEF2371 177 ALLOCATED TO STEPLIB

IEF2371 564 ALLOCATED TO FT03F001

IEF2371 506 ALLOCATED TO FT01F001

IEF2371 150 ALLOCATED TO FT91F001

IEF2371 150 ALLOCATED TO FT92F001

IEF2371 150 ALLOCATED TO FT93F001

IEF2371 150 ALLOCATED TO FT94F001

IEF2371 150 ALLOCATED TO FT95F001

IEF2371 150 ALLOCATED TO FT96F001

IEF1421 - STEP WAS EXECUTED - COND CODE 0000

IEF2851 RTI.A25.P03078.JCW.LIB,LOAD

KEPT

IEF2851 VOL SER NOS= RTI444.

IEF2851 SYS77279.T182346.RV001.RMAK36.191

DELETED

IEF2851 VOL SER NOS= SPARE7.

IEF2851 SYS77279.T182346.RV001.RMAK36.192

DELETED

IEF2851 VOL SER NOS= SPARE7.

IEF2851 SYS77279.T182346.RV001.RMAK36.193

DELETED

IEF2851 VOL SER NOS= SPARE7.

IEF2851 SYS77279.T182346.RV001.RMAK36.194

DELETED

IEF2851 VOL SER NOS= SPARE7.

IEF2851 SYS77279.T182346.RV001.RMAK36.195

DELETED

IEF2851 VOL SER NOS= SPARE7.

IEF2851 SYS77279.T182346.RV001.RMAK36.196

DELETED

IEF2851 VOL SER NOS= SPARE7.

6 CORE=500K TIME---0:18.4 UR---936 RD/WR---0:00.0 RC---0

6 USER=234K CPU---0:07.1 DISK---436 REWIND---0:00.0

6 I/O---0:11.4 TAPE-----0 FL SR---0:00.0

RMAK36 TIME---0:18.4

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

T1 SPENCER-ROWAN CO. BASIN E STREAM 4-65 SIXTH STREET BRANCH
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-6 JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ
 -1. 2. 0. 0. 0.011000 0.0 0.0 0. 638.600 0.0

J2 NPROF IPILOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE
 0.0 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000 39.000 40.000 41.000 43.000 42.000 1.000 2.000 26.000 53.000
 54.000 25.000 50.000 0.0 201.000 0.0 0.0 0.0 0.0 0.0

J5 LPRINT NUMSEC *****REQUESTED SECTION NUMBERS*****

-10.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
 NC 0.055 0.055 0.035 0.100 0.300 0.0 0.0 0.0 0.0
 QT 5.000 309.000 571.000 709.000 1050.000 709.000 0.0 0.0 0.0
 ET 5.000 0.0 0.0 0.0 0.0 0.0 -10.400 0.0 0.0 0.0

X1 300.000 14.000 1358.000 1374.000 300.000 300.000 300.000 0.0 0.0 0.0
 GR 653.300 1000.000 674.200 1100.000 642.700 1200.000 637.800 1300.000 638.200 1358.000
 GR 643.700 1365.000 633.600 1366.000 638.000 1374.000 639.800 1400.000 645.200 1500.000
 GR 649.100 1600.000 651.700 1700.000 652.900 1800.000 653.300 1337.000 0.0 0.0
 QT 5.000 289.000 537.000 668.000 991.000 668.000 0.0 0.0 0.0 0.0

X1 1130.000 10.000 1120.000 1137.000 830.000 830.000 830.000 0.0 0.0 0.0
 GR 661.200 1000.000 655.100 1047.000 646.400 1084.000 642.900 1120.000 640.000 1124.000
 GR 640.100 1125.000 644.400 1137.000 645.200 1200.000 651.500 1300.000 654.900 1400.000
 QT 5.000 270.000 505.000 631.000 942.000 631.000 0.0 0.0 0.0 0.0

X1 1250.000 11.000 1237.000 1253.000 100.000 100.000 100.000 0.0 -6.000 0.0
 GR 671.600 1000.000 656.200 1078.000 657.000 1100.000 653.900 1200.000 651.600 1237.000
 GR 647.200 1247.000 646.100 1251.000 651.700 1253.000 653.700 1302.000 667.400 1400.000
 GR 671.600 1449.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

X1 1284.000 0.0 0.0 0.0 50.000 50.000 50.000 0.0 1.300 0.0
 NC 0.025 0.25 0.025 0.100 0.300 0.0 0.0 0.0 0.0 0.0

X1 1330.000 15.000 1256.500 1261.500 50.000 50.000 50.000 0.0 0.0 0.0
 GR 676.000 1000.000 655.800 1082.000 654.700 1084.000 653.500 1110.000 650.400 1210.000

NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	1330,000	12,000	1256,500	1261,500	50,000	50,000	50,000	0.0	0.0	0.0
GR	656,000	1000,000	655,800	1082,000	654,700	1088,000	653,500	1110,000	650,400	1210,000
GR	648,100	1247,000	645,800	1256,500	644,300	1257,000	643,500	1258,000	643,300	1259,000
GR	643,500	1260,000	644,300	1261,000	645,800	1261,500	648,200	1263,000	650,200	1312,000
GR	654,800	1345,000	655,400	1400,000	656,200	1500,000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	5.000	0.010	19.600	0.0	0.0	0.0

X1	1371,000	0.0	0.0	0.0	41,000	41,000	41,000	0.0	0.0	0.0
X2	0.0	0.0	1,000	648,300	654,200	0.0	0.0	0.0	0.0	0.0
BT	13,000	1000,000	655,000	0.0	1100,000	655,700	0.0	1200,000	655,200	0.0
BT	1256,500	654,400	645,800	1257,000	654,400	647,300	1258,000	654,400	648,100	1259,000
BT	654,400	648,300	1260,000	654,400	648,100	1261,000	654,400	647,300	1261,500	654,400
BT	645,800	1300,000	654,200	0.0	1400,000	655,400	0.0	1500,000	656,200	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	1421,000	11,000	1237,000	1253,000	50,000	50,000	50,000	0.0	-1,200	0.0
GR	671,600	1000,000	658,200	1078,000	657,000	1100,000	653,900	1200,000	651,600	1237,000
GR	647,200	1247,000	646,800	1251,000	651,700	1253,000	653,700	1302,000	667,400	1400,000
GR	671,600	1449,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	1471,000	0.0	0.0	0.0	50,000	50,000	50,000	0.0	1,200	0.0
BT	5,000	237,000	463,000	580,000	872,000	580,000	0.0	0.0	0.0	0.0

X1	1850,000	8,000	1111,000	1122,000	389,000	389,000	389,000	0.0	-9,600	0.0
GR	580,500	1000,000	666,600	1100,000	664,700	1111,000	660,700	1113,000	660,600	1115,000
GR	665,000	1122,000	672,200	1200,000	680,500	1264,000	0.0	0.0	0.0	0.0

X1	1900,000	0.0	0.0	0.0	50,000	50,000	50,000	0.0	4,000	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	1950,000	14,000	1162,000	1166,000	50,000	50,000	50,000	0.0	0.0	0.0
GR	678,900	1050,000	664,800	1150,000	662,900	1161,000	660,800	1162,000	659,100	1163,000
GR	658,800	1164,000	659,100	1165,000	660,800	1166,000	663,200	1172,000	670,400	1250,000
GR	672,000	1262,000	673,400	1285,000	675,000	1300,000	681,700	1350,000	0.0	0.0
SB	0.900	1.500	2.500	0.0	4,000	0.010	12,600	0.0	0.0	0.0

X1	2000,000	0.0	0.0	0.0	50,000	50,000	50,000	0.0	0.0	0.0
X2	0.0	0.0	1,000	662,800	670,100	0.0	0.0	0.0	0.0	0.0
BT	14,000	1000,000	685,700	0.0	1050,000	678,900	0.0	1100,000	673,100	0.0
BT	1150,000	670,400	0.0	1162,000	670,500	660,800	1163,000	670,500	662,500	1164,000
BT	670,500	662,800	1165,000	670,500	662,500	1166,000	670,500	660,800	1200,000	670,100
BT	0.0	1250,000	671,300	0.0	1286,000	673,400	0.0	1300,000	675,000	0.0
BT	1350,000	681,700	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	2050,000	8,000	1111,000	1122,000	50,000	50,000	50,000	0.0	-0,600	0.0
GR	680,500	1000,000	666,600	1100,000	664,700	1111,000	660,700	1113,000	660,600	1115,000
GR	665,000	1122,000	672,200	1200,000	680,500	1264,000	0.0	0.0	0.0	0.0

X1	2100,000	0.0	0.0	0.0	50,000	50,000	50,000	0.0	0,600	0.0
BT	5,000	216,000	412,000	519,000	788,000	519,000	0.0	0.0	0.0	0.0

X1	2304,000	9,000	1194,000	1213,000	230,000	230,000	230,000	0.0	-5,600	0.0
GR	694,300	1000,000	679,500	1100,000	673,100	1194,000	668,100	1200,000	668,000	1203,000
GR	673,500	1213,000	679,200	1300,000	687,600	1400,000	694,300	1463,000	0.0	0.0

X1	2354,000	0.0	0.0	0.0	50,000	50,000	50,000	0.0	1,100	0.0
----	----------	-----	-----	-----	--------	--------	--------	-----	-------	-----

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

T1 SPENCER-ROWAN CO. BASIN E STREAM 4-6S SIXTH STREET BRANCH
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ

-10. 4. 0. 0. 0.011000 0.0 0.0 0. 640.600 0.0

J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE

3.000 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0

HEC2 RELEASE DATED NOV. 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

T1 SPENCER-ROWAN CO. BASIN E STREAM 4-6S SIXTH STREET BRANCH
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IOIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	5.	0.	0.	0.011000	0.0	0.0	0.	641.600	0.0

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CHWS	VCH	SSTA	ENDST	AREA	DIFWSP
* 300,000	300,00	0.0	0.0	309,00	633,60	638,09	638,09	7,22	1294,03	1375,33	49,24	0,0
* 300,000	300,00	0.0	0.0	571,00	633,60	638,95	638,95	7,49	1276,54	1387,71	130,86	0,86
* A 300,000	300,00	0.0	0.0	709,00	633,60	639,23	639,23	7,74	1270,73	1391,83	163,92	0,28
* 300,000	300,00	0.0	0.0	1050,00	633,60	639,62	639,62	9,11	1262,83	1397,42	213,39	0,39
<i>— SPENCER CORP. LIMITS STA. 1130</i>												
1130,000	830,00	0.0	0.0	289,00	640,00	644,32	0.0	5,75	1105,27	1136,86	87,94	0,0
* A 1130,000	830,00	0.0	0.0	537,00	640,00	645,00	644,99	7,92	1098,36	1184,57	95,97	0,68
* 1130,000	830,00	0.0	0.0	668,00	640,00	645,53	645,53	7,45	1092,93	1205,27	150,42	0,53
1130,000	830,00	0.0	0.0	991,00	640,00	645,96	645,90	8,84	1088,56	1212,01	200,46	0,42
1230,000	100,00	0.0	0.0	270,00	640,80	644,76	0.0	8,25	1238,90	1252,62	32,71	0,0
* B 1230,000	100,00	0.0	0.0	505,00	640,80	646,17	646,17	9,18	1227,77	1264,61	59,68	1,41
* 1230,000	100,00	0.0	0.0	631,00	640,80	646,91	646,91	8,67	1215,93	1282,64	97,78	0,74
* 1230,000	100,00	0.0	0.0	942,00	640,80	647,86	647,86	8,71	1200,70	1303,12	178,94	0,95
* 1280,000	50,00	0.0	0.0	270,00	642,10	645,95	645,95	8,67	1239,16	1252,57	31,16	0,0
* 1280,000	50,00	0.0	0.0	505,00	642,10	647,48	647,48	9,17	1227,72	1264,68	59,78	1,53
* 1280,000	50,00	0.0	0.0	631,00	642,10	646,21	648,21	8,65	1215,85	1282,76	98,11	0,74
* 1280,000	50,00	0.0	0.0	942,00	642,10	649,16	649,16	8,69	1200,61	1303,16	179,49	0,95
* 1330,000	50,00	0.0	0.0	270,00	643,30	648,44	648,44	8,30	1241,55	1268,85	40,47	0,0
* 1330,000	50,00	0.0	0.0	505,00	643,30	649,50	649,50	8,32	1224,46	1294,87	92,35	1,06
* 1330,000	50,00	0.0	0.0	631,00	643,30	649,70	649,70	9,19	1221,31	1299,67	106,93	0,20
* 1330,000	50,00	0.0	0.0	942,00	643,30	650,32	650,32	9,25	1211,28	1312,86	163,53	0,62
1371,000	41,00	654,20	648,30	270,00	643,30	652,85	0.0	0,71	1130,69	1331,07	545,22	0,0
1371,000	41,00	654,20	648,30	505,00	643,30	655,20	0.0	0,60	1085,24	1382,19	1109,15	2,35
1371,000	41,00	654,20	648,30	631,00	643,30	655,42	0.0	0,70	1084,05	1402,93	1176,13	0,22
1371,000	41,00	654,20	648,30	942,00	643,30	655,79	0.0	0,94	1032,02	1449,44	1303,80	0,37
1421,000	50,00	0.0	0.0	270,00	645,60	652,82	0.0	2,32	1196,24	1304,26	195,70	0,0
1421,000	50,00	0.0	0.0	505,00	645,60	655,19	0.0	1,72	1119,71	1321,24	562,95	2,37
1421,000	50,00	0.0	0.0	631,00	645,60	655,40	0.0	2,00	1112,86	1322,76	606,64	0,21
1421,000	50,00	0.0	0.0	942,00	645,60	655,76	0.0	2,68	1101,36	1325,31	684,00	0,36
1471,000	50,00	0.0	0.0	270,00	646,80	652,74	0.0	3,97	1218,65	1278,49	87,06	0,0
* C 1471,000	50,00	0.0	0.0	505,00	646,80	655,17	0.0	2,65	1158,98	1312,53	346,79	2,43
1471,000	50,00	0.0	0.0	631,00	646,80	655,38	0.0	3,06	1152,27	1314,02	379,61	0,21
1471,000	50,00	0.0	0.0	942,00	646,80	655,72	0.0	4,02	1141,17	1316,48	437,58	0,34

C	1471.000	50.00	0.0	0.0	631.00	646.80	655.38	0.0	3.06	1152.27	1314.02	379.81	0.21
	1471.000	50.00	0.0	0.0	942.00	646.80	655.72	0.0	4.02	1141.17	1316.48	437.58	0.34

	SECHO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
*	1850.000	389.00	0.0	0.0	237.00	651.00	655.19	655.19	8.98	1110.49	1121.66	26.42	0.0
*	1850.000	389.00	0.0	0.0	463.00	651.00	656.94	656.94	8.96	1100.32	1138.72	68.44	1.76
*D	1850.000	389.00	0.0	0.0	530.00	651.00	657.41	657.41	9.34	1097.03	1143.80	88.39	0.47
*	1850.000	389.00	0.0	0.0	872.00	651.00	658.24	658.24	10.29	1091.08	1152.77	133.25	0.80
*	1900.000	50.00	0.0	0.0	237.00	655.00	659.19	659.19	8.97	1110.48	1121.66	26.44	0.0
*	1900.000	50.00	0.0	0.0	463.00	655.00	660.95	660.95	8.93	1100.28	1138.81	68.73	1.76
*	1900.000	50.00	0.0	0.0	580.00	655.00	661.43	661.43	9.28	1096.91	1143.99	89.19	0.48
*	1900.000	50.00	0.0	0.0	872.00	655.00	662.27	662.27	10.19	1090.87	1153.07	135.01	0.84
*	1950.000	50.00	0.0	0.0	237.00	658.80	663.90	663.90	8.39	1155.23	1179.54	36.70	0.0
*	1950.000	50.00	0.0	0.0	463.00	658.80	664.92	664.92	9.41	1149.13	1190.65	70.40	1.03
*E	1950.000	50.00	0.0	0.0	580.00	658.80	665.29	665.29	9.66	1146.54	1194.62	86.81	0.37
*	1950.000	50.00	0.0	0.0	872.00	658.80	665.98	665.98	10.25	1141.65	1202.08	124.16	0.69
	2000.000	50.00	670.10	662.80	237.00	658.80	670.60	0.0	0.55	1108.82	1251.55	595.98	0.0
	2000.000	50.00	670.10	662.80	463.00	658.80	671.46	0.0	0.86	1102.69	1258.03	724.74	0.86
F	2000.000	50.00	670.10	662.80	580.00	658.80	671.73	0.0	1.01	1100.75	1260.08	767.84	0.27
	2000.000	50.00	670.10	662.80	872.00	658.80	672.25	0.0	1.35	1097.10	1266.44	852.16	0.52
	2050.000	50.00	0.0	0.0	237.00	660.00	670.60	0.0	1.01	1066.90	1189.17	442.34	0.0
	2050.000	50.00	0.0	0.0	463.00	660.00	671.46	0.0	1.60	1060.74	1198.45	553.67	0.86
	2050.000	50.00	0.0	0.0	580.00	660.00	671.73	0.0	1.88	1058.81	1200.97	591.30	0.27
	2050.000	50.00	0.0	0.0	872.00	660.00	672.23	0.0	2.49	1055.14	1204.90	665.74	0.51
	2100.000	50.00	0.0	0.0	237.00	660.60	670.60	0.0	1.18	1071.21	1182.69	372.39	0.0
	2100.000	50.00	0.0	0.0	463.00	660.60	671.46	0.0	1.85	1065.04	1191.98	474.61	0.86
G	2100.000	50.00	0.0	0.0	580.00	660.60	671.73	0.0	2.17	1063.10	1194.90	509.51	0.27
	2100.000	50.00	0.0	0.0	872.00	660.60	672.24	0.0	2.89	1059.41	1200.32	579.38	0.51
	2304.000	230.00	0.0	0.0	216.00	662.40	670.61	0.0	1.46	1148.27	1254.42	240.19	0.0
	2304.000	230.00	0.0	0.0	412.00	662.40	671.48	0.0	2.12	1135.46	1267.73	344.18	0.87
H	2304.000	230.00	0.0	0.0	519.00	662.40	671.76	0.0	2.46	1131.36	1271.99	382.23	0.28
	2304.000	230.00	0.0	0.0	788.00	662.40	672.30	0.0	3.21	1123.51	1280.14	461.66	0.53
	2354.000	50.00	0.0	0.0	216.00	663.50	670.60	0.0	2.09	1164.51	1237.54	141.12	0.0
	2354.000	50.00	0.0	0.0	412.00	663.50	671.46	0.0	3.02	1152.06	1250.48	213.81	0.86
	2354.000	50.00	0.0	0.0	519.00	663.50	671.73	0.0	3.49	1148.09	1254.61	241.52	0.27
	2354.000	50.00	0.0	0.0	788.00	663.50	672.24	0.0	4.51	1140.51	1262.48	300.43	0.52
	2404.000	50.00	0.0	0.0	216.00	664.60	670.52	0.0	4.64	1156.01	1193.35	61.67	0.0
	2404.000	50.00	0.0	0.0	412.00	664.60	671.38	0.0	5.65	1143.26	1206.60	105.37	0.87
I	2404.000	50.00	0.0	0.0	519.00	664.60	671.66	0.0	6.18	1139.26	1210.76	123.73	0.27
	2404.000	50.00	0.0	0.0	788.00	664.60	672.19	0.0	7.19	1131.43	1218.90	166.13	0.53
	2446.000	42.00	673.30	668.10	216.00	664.60	674.43	0.0	0.76	1098.49	1253.13	437.59	0.0
	2446.000	42.00	673.30	668.10	412.00	664.60	675.18	0.0	1.11	1087.34	1264.72	563.68	0.75
J	2446.000	42.00	673.30	668.10	519.00	664.60	675.46	0.0	1.28	1083.31	1268.91	613.47	0.28
	2446.000	42.00	673.30	668.10	788.00	664.60	675.99	0.0	1.64	1075.44	1276.41	717.10	0.53
	2496.000	50.00	0.0	0.0	216.00	663.00	674.36	0.0	2.67	1175.51	1226.10	94.82	0.0
	2496.000	50.00	0.0	0.0	412.00	663.00	675.03	0.0	4.09	1165.65	1236.36	135.56	0.67
	2496.000	50.00	0.0	0.0	519.00	663.00	675.26	0.0	4.78	1162.30	1239.83	152.45	0.23
	2496.000	50.00	0.0	0.0	788.00	663.00	675.64	0.0	6.37	1156.50	1245.87	185.43	0.39

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
2546.000	50.00	0.0	0.0	216.00	669.10	674.33	0.0	3.84	1192.04	1212.52	56.38	0.0
2546.000	50.00	0.0	0.0	412.00	669.10	674.92	0.0	6.07	1183.47	1217.83	71.80	0.58
2546.000	50.00	0.0	0.0	519.00	669.10	675.06	0.0	7.29	1181.30	1220.09	77.21	0.14
* 2546.000	50.00	0.0	0.0	788.00	669.10	675.49	675.49	9.65	1175.04	1226.59	95.47	0.43
* 2760.000	228.00	0.0	0.0	163.00	675.00	678.64	678.64	8.60	1146.84	1155.26	18.96	0.0
* 2760.000	228.00	0.0	0.0	320.00	675.00	680.05	680.05	9.81	1145.61	1156.52	32.62	1.41
* 2760.000	228.00	0.0	0.0	410.00	675.00	680.62	680.62	10.50	1145.12	1157.03	39.06	0.56
* 2760.000	228.00	0.0	0.0	638.00	675.00	682.48	682.48	8.05	1136.29	1320.77	128.22	1.86
* 2810.000	50.00	0.0	0.0	163.00	678.60	682.24	682.24	8.58	1146.83	1155.26	19.00	0.0
* 2810.000	50.00	0.0	0.0	320.00	678.60	683.63	683.63	9.89	1145.63	1156.50	32.35	1.38
* 2810.000	50.00	0.0	0.0	410.00	678.60	684.23	684.23	10.45	1145.11	1157.04	39.22	0.60
* 2810.000	50.00	0.0	0.0	638.00	678.60	686.09	686.09	7.95	1136.08	1320.37	129.88	1.86
* 2860.000	50.00	0.0	0.0	163.00	682.20	686.74	686.74	10.13	1182.76	1190.72	19.83	0.0
* 2860.000	50.00	0.0	0.0	320.00	682.20	689.20	689.20	8.59	1172.03	1221.16	59.19	2.45
* 2860.000	50.00	0.0	0.0	410.00	682.20	689.64	689.64	8.47	1164.01	1234.66	85.86	0.45
* 2860.000	50.00	0.0	0.0	638.00	682.20	690.14	690.14	9.54	1155.00	1249.83	127.27	0.50
* 2900.000	40.00	688.50	685.20	163.00	682.20	689.40	0.0	3.90	1168.37	1227.32	70.18	0.0
* 2900.000	40.00	688.50	685.20	320.00	682.20	690.14	0.0	4.80	1155.09	1249.68	126.82	0.74
* 2900.000	40.00	688.50	685.20	410.00	682.20	690.38	0.0	5.23	1150.64	1257.17	151.66	0.25
* 2900.000	40.00	688.50	685.20	638.00	682.20	690.86	0.0	6.01	1142.04	1271.65	208.10	0.48
* 2950.000	50.00	0.0	0.0	163.00	685.80	689.45	689.45	8.55	1146.82	1155.27	19.07	0.0
* 2950.000	50.00	0.0	0.0	320.00	685.80	690.83	690.83	9.89	1145.63	1156.50	32.37	1.38
* 2950.000	50.00	0.0	0.0	410.00	685.80	691.49	691.49	10.26	1145.05	1157.10	39.97	0.66
* 2950.000	50.00	0.0	0.0	638.00	685.80	693.32	693.32	7.88	1135.74	1321.30	132.67	1.83
* 3000.000	50.00	0.0	0.0	163.00	689.40	693.04	693.04	8.59	1146.83	1155.26	18.98	0.0
* 3000.000	50.00	0.0	0.0	320.00	689.40	694.43	694.43	9.87	1145.62	1156.51	32.43	1.39
* 3000.000	50.00	0.0	0.0	410.00	689.40	695.02	695.02	10.49	1145.11	1157.03	39.08	0.58
* 3000.000	50.00	0.0	0.0	638.00	689.40	696.88	696.88	8.04	1136.27	1320.79	128.38	1.86

SUMMARY OF ERRORS

CAUTION SECNO= 300.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 300.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 300.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 300.000 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1130.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1130.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1230.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1230.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1230.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1230.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1230.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1230.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1230.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1230.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1230.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 3000.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 3000.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 3000.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 3000.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 3000.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 3000.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 3000.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 3000.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

FLOOD INSURANCE ZONE DATA FOR 10 YEAR FLOOD WATER SURF

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND:		
		10C	2C	0.2C
300.000	0.	-1.1	-0.3	0.4
1130.000	830.	-1.2	-0.5	0.4
1230.000	930.	-2.1	-0.7	0.9
1280.000	980.	-2.3	-0.7	0.9
1330.000	1030.	-1.3	-0.2	0.6
1371.000	1071.	-2.6	-0.2	0.4
1421.000	1121.	-2.6	-0.2	0.4
1471.000	1171.	-2.6	-0.2	0.3
1850.000	1560.	-2.2	-0.5	0.8
1900.000	1610.	-2.2	-0.5	0.8
1950.000	1660.	-1.4	-0.4	0.7
2000.000	1710.	-1.1	-0.3	0.5
2050.000	1760.	-1.1	-0.3	0.5
2100.000	1810.	-1.1	-0.3	0.5
2304.000	2040.	-1.1	-0.3	0.5
2354.000	2090.	-1.1	-0.3	0.5
2404.000	2140.	-1.1	-0.3	0.5
2446.000	2182.	-1.0	-0.3	0.5
2496.000	2232.	-0.9	-0.2	0.4
2546.000	2282.	-0.7	-0.1	0.4
2760.000	2510.	-2.0	-0.6	1.9
2810.000	2560.	-2.0	-0.6	1.9
2860.000	2610.	-2.9	-0.4	0.5
2900.000	2650.	-1.0	-0.2	0.5
2950.000	2700.	-2.0	-0.7	1.6
3000.000	2750.	-2.0	-0.6	1.9
WEIGHTED AVG FOR REACH		-1.6	-0.4	0.6

FHF FOR THE REACH = 0.33 WITH 73.1% OF THE REACH WITHIN 0.5 FEET
 ZONE FOR THE REACH = A 3

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA			WTD. AVG.	FHF	PERCENT WITHIN
		10C	1C	DIFF.			
	0.						SEC. 300,000
1	100.	638.5	639.6	-1.1	-1.1	010	100.
2	200.	639.2	640.4	-1.2	-1.1	010	100.
3	300.	640.0	641.1	-1.2	-1.2	010	100.
4	400.	640.7	641.9	-1.2	-1.2	010	100.
5	500.	641.5	642.6	-1.2	-1.2	010	100.
6	600.	642.2	643.4	-1.2	-1.2	010	100.

3	300.	640.0	641.1	-1.2	-1.2	010	100.
4	400.	640.7	641.9	-1.2	-1.2	010	100.
5	500.	641.5	642.6	-1.2	-1.2	010	100.
6	600.	642.2	643.4	-1.2	-1.2	010	100.
7	700.	643.0	644.2	-1.2	-1.2	010	100.
8	800.	643.7	644.9	-1.2	-1.2	010	100.
	830.					SEC.	1130.000
9	900.	644.4	645.9	-1.5	-1.2	010	100.
	930.					SEC.	1230.000
	980.					SEC.	1280.000
10	1000.	646.4	648.5	-2.1	-1.3	015	90.
	1030.					SEC.	1330.000
	1071.					SEC.	1371.000
11	1100.	652.8	655.4	-2.6	-1.4	015	82.
	1121.					SEC.	1421.000
	1171.					SEC.	1471.000
12	1200.	652.8	655.5	-2.6	-1.5	015	75.
13	1300.	653.2	655.8	-2.6	-1.6	015	77.
14	1400.	653.9	656.3	-2.4	-1.7	015	57.
15	1500.	654.5	656.8	-2.3	-1.7	015	13.
	1560.					SEC.	1850.000
16	1600.	656.6	658.9	-2.3	-1.7	015	13.
	1610.					SEC.	1900.000
	1660.					SEC.	1950.000
17	1700.	666.6	667.9	-1.3	-1.7	015	18.
	1710.					SEC.	2000.000
	1760.					SEC.	2050.000
18	1800.	670.6	671.7	-1.1	-1.7	015	33.
	1810.					SEC.	2100.000
19	1900.	670.6	671.7	-1.1	-1.6	015	53.
20	2000.	670.6	671.7	-1.1	-1.6	015	70.
	2040.					SEC.	2304.000
	2090.					SEC.	2354.000
21	2100.	670.6	671.7	-1.1	-1.6	015	71.
	2140.					SEC.	2404.000
	2182.					SEC.	2446.000
22	2200.	674.4	675.4	-1.0	-1.6	015	68.
	2232.					SEC.	2496.000
	2282.					SEC.	2546.000
23	2300.	674.5	675.3	-0.8	-1.5	015	61.
24	2400.	675.6	676.7	-1.1	-1.5	015	63.
25	2500.	677.5	679.2	-1.6	-1.5	015	64.
	2510.					SEC.	2760.000
	2560.					SEC.	2810.000
26	2600.	684.0	686.4	-2.4	-1.6	015	62.
	2610.					SEC.	2860.000
	2650.					SEC.	2900.000
27	2700.	689.4	690.9	-1.5	-1.6	015	63.
	2700.					SEC.	2950.000
	2750.					SEC.	3000.000

THIS REACH CAN BE SUBDIVIDED BY INC NO. TO MEET FIA REQUIREMENTS
INPUT 200 WHERE N IS THE NUMBER OF REACHES AND THEN INPUT THE END
OF EACH REACH BY INC NO. FOR EXAMPLED 202 11 27
A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
ERROR CORR - 01
MODIFICATION - 50,91,52

EU

TE

