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SPENCER, N.C.
SOUTHERN RAILROAD BRANCH

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123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901

PROGRAMMER=PAK		ACCOUNT=RT1.A25.P0307A		JOB TURN-AROUND			JOB PARAMETERS			TIME USED INCLUDES		MISC. JOB VALUES	
DATE	TIME	SPECIFIED	USED	NO.	EQUIVALENT	LINES IN	LINES OUT	MEMORY TIME	PRIORITY	APPROX. COST			
ENTERED	10/06/77 19:57:09.6	TIME	2906.0	0:16.1	CPU	85							
EXECUTED	10/06/77 18:24:29.3	PAGES	200	12	DR EXCPS	480							
RETURNED	10/07/77 12:29:09.3	CARDS	0	0	DISK EXCPS	8040	K-SEC						
JOB ENTERED ON THURSDAY		PLOTS	0	0	TAPE READ-WRITE	00							
					TAPE FILE SEARCH	63.17							

JOB CONSOLE LOG

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V 18.24.17 JOB 558 -- RYAKS3 -- JCL INTERPRETED, TUCC CPU #2
V 18.24.29 JOB 558 -- RYAKS3 -- BEGINNING EXEC - INIT 3 - CLASS
L 18.24.29 JOB 558 ++++SE=98,T=02,J=RMAKS3 18:24:29 MAK
V 18.26.21 JOB 558 END EXECUTION.

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//RMAKS3 JOB RTI.A25.P03078.MAK.P=1.T=2.P=200.PRTY=0

***PROCLIB=RTI.MG.PROCLTB

// EXEC HEC2

XXG EXEC PGM=HEC2,R=500K	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=&I91,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000050
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000060
XXFT92F001 DD DSN=&I92,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000070
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000080
XXFT93F001 DD DSN=&I93,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000090
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000100
XXFT94F001 DD DSN=&I94,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000110
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000120
XXFT95F001 DD DSN=&I95,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000130
XX DCB=(BUFNO=1,RECFM=VBS,LRECL=1000,BLKSIZE=6400)	00000140
XXFT96F001 DD DSN=&I96,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000150
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000160

//SYSIN DD *

//

IEF236I ALLDC. FOR RMAKS3 G

IEF237I 177 ALLOCATED TO STEPLIB

IEF237I 566 ALLOCATED TO FT03F001

IEF237I 504 ALLOCATED TO FT01F001

IEF237I 15C ALLOCATED TO FT91F001

IEF237I 15C ALLOCATED TO FT92F001

IEF237I 15C ALLOCATED TO FT93F001

IEF237I 15C ALLOCATED TO FT94F001

IEF237I 15C ALLOCATED TO FT95F001

IEF237I 15C ALLOCATED TO FT96F001

IEF142I - STEP WAS EXECUTED - COND CODE 0000

IEF285I RTI.A25.P03078.JCW.LIB.LOAD KEPT

IEF285I VOL SER NOS= RTI444.

IEF285I SYS77279.T182417.RV001.RMAKS3.I91 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T182417.RV001.RMAKS3.I92 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T182417.RV001.RMAKS3.I93 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T182417.RV001.RMAKS3.I94 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T182417.RV001.RMAKS3.I95 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T182417.RV001.RMAKS3.I96 DELETED

IEF285I VOL SER NOS= SPARE7.

G CORE=500K TIME---0:14.5 BR---597 RD/WR---0:00.0 RC-----0

G USED=234K CPU---0:04.6 DISK---417 REWIND---0:00.0

G I/O---0:09.9 TAPE-----0 FL SR---0:00.0

RMAKS3 TIME---0:14.5

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

T1 SPENCER-ROWAN CO. BASIN E STRM 3S SOUTHERN RR BRANCH
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INO NINV IDIR STRT METRIC HVINS O WSEL FQ
 -1. 2. 0. 0. 0.029000 0.0 0.0 0. 685.200 0.0

J2 NPROF IPLOTA PRFVS XSECV XSECH EN ALLDC IBW CHNIM ITRACE
 0.0 0.0 -1.000 0.0 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 0.0
 NC 0.055 0.055 0.035 0.100 0.300 0.0 0.0 0.0 0.0 0.0
 QT 5.000 107.000 218.000 284.000 455.000 284.000 0.0 0.0 0.0 0.0
 ET 5.000 0.0 0.0 0.0 0.0 -10.400 0.0 0.0 0.0 0.0

X1 150.000 10.000 1293.000 1304.000 150.000 150.000 150.000 0.0 -6.000 0.0
 GR 701.500 1000.000 699.100 1100.000 693.100 1200.000 687.800 1293.000 686.200 1298.000
 GR 686.200 1299.000 686.200 1300.000 688.200 1304.000 698.100 1400.000 701.500 1448.000

X1 200.000 0.0 0.0 0.0 50.000 50.000 50.000 0.0 0.800 0.0
 NC 0.025 0.025 0.025 0.100 0.300 0.0 0.0 0.0 0.0 0.0

X1 250.000 17.000 1348.000 1350.000 50.000 50.000 50.000 0.0 0.0 0.0
 GR 702.400 1000.000 699.100 1084.000 693.600 1200.000 690.700 1250.000 685.400 1343.000
 GR 684.800 1348.000 683.800 1348.000 683.800 1350.000 684.800 1350.000 685.800 1354.000
 GR 689.000 1375.000 685.000 1400.000 689.900 1500.000 691.500 1600.000 696.300 1700.000
 GR 597.400 1750.000 696.700 1800.000 0.0 0.0 0.0 0.0 0.0 0.0
 SB 0.900 1.500 2.500 0.0 2.000 0.010 4.000 0.0 0.0 0.0

X1 303.000 0.0 0.0 0.0 53.000 53.000 53.000 0.0 0.0 0.0
 X2 0.0 0.0 1.000 685.600 687.900 0.0 0.0 0.0 0.0 0.0
 BT 12.000 1000.000 702.400 0.0 1084.000 699.100 0.0 1200.000 693.600 0.0
 BT 1300.000 689.000 0.0 1348.000 687.900 685.800 1350.000 687.900 685.800 1400.000
 BT 688.000 0.0 1500.000 689.900 0.0 1600.000 691.500 0.0 1700.000 696.300
 BT 0.0 1750.000 697.400 0.0 1800.000 696.700 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

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

11 SHENCER-KOWAN CO. BASIN E STRM 3S SOUTHERN RR BRANCH
 12 FLOODPLAIN STUDY AT KOWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 13 100 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INO NINV IQIR STRI METRIC HVINS Q WSEL FQ
 -10. 4. 0. 0. 0.029000 0.0 0.0 0. 687.200 0.0

J2 NPROF IPILOT PRFVS XSECV XSECH FN ALLOC IBW CHNIN 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. STRM 3S SOUTHERN RR BRANCH
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ NINV IDIR STRY METRIC HVINS G WSEL FD
-10. 5. 0. 0. 0.029000 0.0 0.0 0. 688.200 0.0

J2 NPROP IPLOT 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	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
*	150,000	150.00	0.0	0.0	107.00	680.20	682.43	682.43	6.15	1281.91	1306.25	20.32	0.0
*	150,000	150.00	0.0	0.0	218.00	680.20	683.19	683.19	7.02	1268.67	1313.56	46.43	0.75
* A	150,000	150.00	0.0	0.0	284.00	680.20	683.48	683.48	7.49	1263.58	1316.38	60.61	0.29
*	150,000	150.00	0.0	0.0	456.00	680.20	684.03	684.03	8.50	1253.79	1321.79	94.31	0.56
*	200,000	50.00	0.0	0.0	107.00	681.00	683.23	683.23	6.15	1281.90	1306.25	20.33	0.0
*	200,000	50.00	0.0	0.0	218.00	681.00	683.99	683.99	7.00	1268.61	1313.60	46.60	0.76
*	200,000	50.00	0.0	0.0	284.00	681.00	684.28	684.28	7.45	1263.45	1316.45	61.01	0.29
*	200,000	50.00	0.0	0.0	456.00	681.00	684.85	684.85	8.44	1253.59	1321.90	95.09	0.56
*	250,000	50.00	0.0	0.0	107.00	683.80	686.29	686.29	5.99	1327.43	1358.65	22.90	0.0
*	250,000	50.00	0.0	0.0	218.00	683.80	686.73	686.73	7.00	1319.68	1362.87	39.34	0.44
* B	250,000	50.00	0.0	0.0	284.00	683.80	687.02	687.02	6.70	1314.61	1366.62	52.93	0.29
*	250,000	50.00	0.0	0.0	456.00	683.80	687.42	687.42	7.38	1307.50	1369.49	75.83	0.41
	303,000	53.00	687.90	685.80	107.00	683.80	688.48	0.0	0.76	1288.89	1425.45	173.94	0.0
	303,000	53.00	687.90	685.80	218.00	683.80	688.85	0.0	1.19	1282.39	1444.95	229.36	0.37
* C	303,000	53.00	687.90	685.80	284.00	683.80	689.00	0.0	1.39	1279.75	1452.87	254.62	0.16
	303,000	53.00	687.90	685.80	456.00	683.80	689.32	0.0	1.82	1274.23	1469.42	312.52	0.31
*	353,000	50.00	0.0	0.0	107.00	686.20	688.44	688.44	6.11	1281.79	1306.31	20.48	0.0
*	353,000	50.00	0.0	0.0	218.00	686.20	689.18	689.18	7.03	1268.71	1313.54	46.33	0.75
*	353,000	50.00	0.0	0.0	284.00	686.20	689.48	689.48	7.49	1263.55	1316.39	60.65	0.29
*	353,000	50.00	0.0	0.0	456.00	686.20	690.03	690.03	8.50	1253.78	1321.79	94.32	0.56
*	403,000	50.00	0.0	0.0	107.00	687.00	689.23	689.23	6.15	1281.91	1306.25	20.32	0.0
* D	403,000	50.00	0.0	0.0	218.00	687.00	689.99	689.99	7.00	1268.60	1313.60	46.61	0.76
*	403,000	50.00	0.0	0.0	284.00	687.00	690.28	690.28	7.45	1263.42	1316.46	61.08	0.30
*	403,000	50.00	0.0	0.0	456.00	687.00	690.85	690.85	8.44	1253.57	1321.91	95.14	0.56
*	533,000	130.00	0.0	0.0	93.00	692.00	694.28	694.28	4.35	346.51	506.40	34.24	0.0
* E	533,000	130.00	0.0	0.0	188.00	692.00	694.58	694.58	5.44	342.79	507.88	61.05	0.30
*	533,000	130.00	0.0	0.0	246.00	692.00	694.75	694.75	5.49	340.64	508.74	79.41	0.17
*	533,000	130.00	0.0	0.0	398.00	692.00	694.96	694.96	6.65	338.01	509.80	104.74	0.21
*	583,000	50.00	0.0	0.0	93.00	692.90	695.16	695.16	4.45	346.69	506.32	33.12	0.0
*	583,000	50.00	0.0	0.0	188.00	692.90	695.50	695.50	5.21	342.45	508.02	63.88	0.34
*	583,000	50.00	0.0	0.0	246.00	692.90	695.60	695.60	5.90	341.26	508.50	73.94	0.09
*	583,000	50.00	0.0	0.0	398.00	692.90	695.89	695.89	6.38	337.61	509.95	108.83	0.29

* 583,000	50.00	0.0	0.0	246.00	692.90	695.60	695.60	5.90	341.26	508.50	73.94	0.09
* 583,000	50.00	0.0	0.0	398.00	692.90	695.89	695.89	6.38	337.61	509.95	108.83	0.29

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
* 633,000	50.00	0.0	0.0	93.00	696.40	698.66	698.66	5.85	2221.83	2241.07	17.28	0.0
* 633,000	50.00	0.0	0.0	188.00	696.40	699.26	699.26	6.17	2217.12	2244.88	31.11	0.60
* F 633,000	50.00	0.0	0.0	246.00	696.40	699.52	699.52	6.39	2214.33	2246.52	38.92	0.26
* 633,000	50.00	0.0	0.0	398.00	696.40	700.05	700.05	6.88	2208.72	2249.83	58.10	0.52
817,000	84.00	704.30	698.40	93.00	696.40	704.53	0.0	0.23	2000.00	2278.17	394.87	0.0
817,000	184.00	704.30	698.40	188.00	696.40	704.73	0.0	0.43	2000.00	2279.49	453.07	0.21
817,000	184.00	704.30	698.40	246.00	696.40	704.84	0.0	0.54	2000.00	2280.14	481.83	0.10
817,000	184.00	704.30	698.40	398.00	696.40	705.05	0.0	0.80	2000.00	2281.54	544.30	0.22
867,000	50.00	0.0	0.0	93.00	698.20	704.53	0.0	0.64	1080.01	1148.98	212.60	0.0
867,000	50.00	0.0	0.0	188.00	698.20	704.73	0.0	1.21	1079.26	1150.23	226.72	0.20
867,000	50.00	0.0	0.0	246.00	698.20	704.82	0.0	1.54	1078.90	1150.83	233.65	0.10
867,000	50.00	0.0	0.0	398.00	698.20	705.02	0.0	2.36	1078.15	1152.07	248.33	0.20
917,000	50.00	0.0	0.0	93.00	699.10	704.53	0.0	0.86	1083.34	1143.44	154.59	0.0
917,000	50.00	0.0	0.0	188.00	699.10	704.73	0.0	1.61	1082.58	1144.70	167.08	0.20
H 917,000	50.00	0.0	0.0	246.00	699.10	704.83	0.0	2.04	1082.21	1145.31	173.27	0.10
917,000	50.00	0.0	0.0	398.00	699.10	705.03	0.0	3.08	1081.44	1146.60	186.64	0.20
* 1293,000	376.00	0.0	0.0	67.00	709.10	711.43	711.43	6.77	1084.37	1097.20	12.91	0.0
* I 1293,000	376.00	0.0	0.0	139.00	709.10	712.14	712.14	6.15	1080.04	1097.42	23.70	0.71
* 1293,000	376.00	0.0	0.0	183.00	709.10	712.46	712.46	8.78	1078.11	1097.52	29.59	0.32
* 1293,000	376.00	0.0	0.0	301.00	709.10	713.13	713.13	10.02	1074.03	1097.74	44.11	0.67

SUMMARY OF ERRORS

CAUTION	SECNO=	150,000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	150,000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	150,000	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	150,000	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	200,000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	200,000	PROFILE=	1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	200,000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	200,000	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	200,000	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	200,000	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	200,000	PROFILE=	3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	200,000	PROFILE=	3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	200,000	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	200,000	PROFILE=	4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	200,000	PROFILE=	4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	250,000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	250,000	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	250,000	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	250,000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	250,000	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	250,000	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	250,000	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	250,000	PROFILE=	3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	250,000	PROFILE=	3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	250,000	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	250,000	PROFILE=	4	PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 633.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 633.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1293.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1293.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1293.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1293.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1293.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1293.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1293.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1293.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1293.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1293.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1293.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1293.000 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
150,000	0.	-1.0	-0.3	0.6
200,000	50.	-1.1	-0.3	0.6
250,000	100.	-0.7	-0.3	0.4
303,000	153.	-0.5	-0.2	0.3
353,000	203.	-1.0	-0.3	0.6
403,000	253.	-1.1	-0.3	0.6
533,000	383.	-0.5	-0.2	0.2
583,000	433.	-0.4	-0.1	0.3
633,000	483.	-0.9	-0.3	0.5
817,000	667.	-0.3	-0.1	0.2
867,000	717.	-0.3	-0.1	0.2
917,000	767.	-0.3	-0.1	0.2
1293,000	1143.	-1.0	-0.3	0.7
WEIGHTED AVG FOR REACH		-0.7	-0.2	0.4

FHF FOR THE REACH = .005 WITH 100.0% OF THE REACH WITHIN 0.5 FEET
 ZONE FOR THE REACH = A 1

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

EJ

MAK RMAKS3 12-PAGES 484-LINES 20-PLOTS # RTI.A25.P03078

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