

123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901

BASIN D STREAM 2
PROFILE
MILLER CREEK

1 *****
1 * * * * *
1 * * * * *
1 * * * * *
1 * * * * *
1 * * * * *
1 * * * * *
1 * * * * *
1 * * * * *
1 * * * * *
1 * * * * *
1 * * * * *
1 * * * * *
1 * * * * *
1 * * * * *
1 * * * * *

123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901
PLOT H - 500
V - 5
H H

PROGRAMMER=LRS ACCOUNT=RTI.A25.P03076

JOB TIME-AROUND		JOB PARAMETERS		TIME USED INCLUDES			MISC. JOB VALUES	
DATE	TIME	SPECIFIED	USED		NO.	EQUIVALENT		
ENTERED	8/30/77 14:15:28.0	TIME	2:00.0	0:26.2	CPU	0:07.7	LINES IN	150
EXECUTED	8/30/77 14:37:27.7	PAGES	200	34	DK EXCPS	0:08.3	LINES OUT	1842
RETURNED	8/31/77 12:03:20.3	CARDS	0	0	DISK EXCPS	0:10.2	MEMORY TIME	13105 K-SEC
JOB ENTERED ON	TUESDAY	PLOTS	0	0	TAPE READ-WRITE	0:00.0	PRIORITY	00
					TAPE FILE SEARCH	0:00.0	APPROX. COST	\$6.44

JOB CONSOLE LOG

1 16.37.27 JOB 7 -- ROKDD2 -- JCL INTERPRETED, TUCS CPU #2
2 16.37.27 JOB 7 -- ROKDD2 -- BEGINNING EXEC - INIT 1 - CLASS
3 16.37.27 JOB 7 ++++S=255,T=02,J=ROKDD2 16:37:27 DMS
4 16.39.22 JOB 7 END EXECUTION.

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

C
 T1 DAVIDSON CO. BASIN 0 STREAM 2 MILLER CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G 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. 0.005000 0.0 0.0 0. 697.800 0.0

J2 NPROF I PLOT 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 28.000 50.000 0.0 201.000 0.0 0.0 0.0 0.0 0.0

IC 0.000 0.000 0.000 0.100 0.300 0.0 0.0 0.0 0.0 0.0
 JT 5.000 890.000 1450.000 1750.000 2700.000 1750.000 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 5850.000 17.000 1149.000 1153.000 5850.000 5850.000 5850.000 0.0 0.0 0.0
 GR 715.000 1000.000 705.200 1033.000 703.700 1050.000 703.300 1100.000 702.500 1149.000
 BR 692.900 1156.000 692.500 1161.000 693.000 1167.000 701.000 1183.000 700.900 1200.000
 GR 701.500 1250.000 703.300 1300.000 706.400 1350.000 709.100 1400.000 713.200 1450.000
 BR 717.300 1500.000 718.000 1511.000 0.0 0.0 0.0 0.0 0.0 0.0

X1 5949.000 20.000 1749.000 1758.000 99.000 99.000 99.000 0.0 0.0 0.0
 GR 721.500 1000.000 717.500 1100.000 717.000 1200.000 715.800 1300.000 713.900 1400.000
 GR 710.900 1500.000 706.500 1500.000 704.700 1700.000 695.500 1749.000 694.400 1751.000
 GR 692.800 1750.000 692.500 1775.000 698.000 1781.000 700.100 1788.000 703.700 1800.000
 GR 706.800 1900.000 708.000 1970.000 710.400 2000.000 715.700 2100.000 718.800 2150.000
 BR 0.900 1.500 2.500 0.0 39.000 0.010 334.000 0.0 0.0 0.0

(5960) RDRS NCSR 1516 EXLCEL 703.4 RDELV 705.7

X1 5970.000 0.0 0.0 0.0 21.000 21.000 21.000 0.0 0.0 0.0
 X2 0.0 0.0 1.000 703.400 705.200 0.0 0.0 0.0 0.0 0.0
 BT 14.000 1000.000 721.500 0.0 1100.000 717.900 0.0 1200.000 717.000 0.0
 BT 1300.000 715.900 0.0 1400.000 713.900 0.0 1500.000 710.900 0.0 1600.000
 BT 707.100 0.0 1700.000 705.600 0.0 1749.000 705.700 703.400 1788.000 705.500
 BT 703.200 1800.000 705.200 0.0 1900.000 706.800 0.0 2000.000 710.400 0.0
 BT 2100.000 715.700 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

X1	6070.000	17.000	1149.000	1183.000	100.000	100.000	100.000	0.0	0.500	0.0
GR	718.000	1000.000	705.200	1035.000	703.700	1050.000	703.300	1100.000	702.500	1149.000
GR	692.900	1156.000	692.500	1161.000	693.000	1167.000	701.000	1183.000	700.900	1200.000
GR	701.500	1250.000	703.300	1300.000	706.400	1350.000	709.100	1400.000	713.200	1450.000
GR	717.300	1500.000	718.000	1511.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.050	0.050	0.029	0.100	0.300	0.0	0.0	0.0	0.0	0.0
DT	5.000	760.000	1380.000	1680.000	2590.000	1680.000	0.0	0.0	0.0	0.0

X1	8100.000	22.000	1084.000	1101.000	2030.000	2030.000	2030.000	0.0	0.0	0.0
GR	727.500	1000.000	725.400	1010.000	712.400	1022.000	711.100	1050.000	708.800	1084.000
GR	705.600	1086.000	705.500	1091.000	709.800	1101.000	708.300	1200.000	707.500	1250.000
GR	707.500	1300.000	706.700	1350.000	706.300	1400.000	706.600	1500.000	707.600	1550.000
GR	709.300	1600.000	711.200	1650.000	714.000	1700.000	717.800	1750.000	723.400	1800.000
GR	727.100	1850.000	728.000	1859.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.044	0.044	0.020	0.100	0.300	0.0	0.0	0.0	0.0	0.0
DT	5.000	700.000	1300.000	1580.000	2450.000	1580.000	0.0	0.0	0.0	0.0

X1	11100.000	15.000	1433.000	1449.000	3000.000	3000.000	3000.000	0.0	0.0	0.0
GR	739.200	1000.000	730.700	1050.000	726.100	1100.000	725.400	1150.000	723.700	1200.000
GR	721.700	1250.000	721.000	1300.000	721.600	1400.000	722.000	1433.000	716.500	1442.000
GR	722.000	1442.000	722.400	1500.000	726.900	1539.000	733.500	1600.000	737.900	1650.000
NC	0.044	0.044	0.024	0.100	0.300	0.0	0.0	0.0	0.0	0.0
DT	5.000	600.000	1140.000	1390.000	2150.000	1390.000	0.0	0.0	0.0	0.0

X1	14650.000	14.000	1264.000	1292.000	3750.000	3750.000	3750.000	0.0	0.0	0.0
GR	755.800	1000.000	751.400	1025.000	744.000	1053.000	739.200	1100.000	736.500	1200.000
GR	736.500	1264.000	732.200	1274.000	738.100	1292.000	738.600	1300.000	737.200	1400.000
GR	741.200	1472.000	742.500	1500.000	744.600	1549.000	752.700	1600.000	0.0	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
DT	5.000	560.000	1050.000	1280.000	2000.000	1280.000	0.0	0.0	0.0	0.0

17950

X1	17650.000	13.000	1331.000	1355.000	2800.000	2800.000	2800.000	0.0	-2.000	0.0
GR	742.600	1000.000	755.400	1100.000	750.000	1200.000	750.500	1300.000	751.100	1331.000
GR	744.300	1345.000	751.400	1355.000	751.000	1400.000	751.600	1500.000	754.800	1600.000
GR	752.400	1700.000	754.100	1800.000	767.400	1850.000	0.0	0.0	0.0	0.0

18150

X1	17450.000	0.0	0.0	0.0	200.000	200.000	200.000	0.0	0.800	0.0
----	-----------	-----	-----	-----	---------	---------	---------	-----	-------	-----

18200

X1	17300.000	15.000	1753.000	1781.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	771.400	1000.000	758.300	1000.000	766.200	1045.000	757.700	1255.000	752.100	1650.000
GR	752.000	1763.000	743.300	1753.000	743.300	1781.800	752.000	1781.800	751.900	1850.000
GR	754.700	2300.000	758.700	2650.000	751.700	2600.000	764.800	2900.000	770.200	3000.000
SP	1.250	1.500	2.500	0.0	18.800	0.670	199.400	0.0	0.0	0.0

(18200)

RLNS NC DT 150 NXLCEL 754.3 RRELV 755.9

18249

X1	17949.000	0.0	0.0	0.0	49.000	49.000	49.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	754.300	755.900	0.0	0.0	0.0	0.0	0.0
DT	17.000	1000.000	771.400	0.0	1200.000	764.800	0.0	1400.000	758.700	0.0
BT	1500.000	757.300	0.0	1600.000	755.900	0.0	1763.000	755.900	754.300	1781.800
DT	755.900	754.300	1900.000	755.700	0.0	2000.000	756.200	0.0	2200.000	757.400
DT	0.0	2400.000	758.000	0.0	2500.000	758.300	0.0	2600.000	758.100	0.0
DT	2700.000	759.400	0.0	2800.000	751.700	0.0	2900.000	764.800	0.0	3000.000
BT	779.400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

18300

X1	15000.000	13.000	1331.000	1355.000	51.000	51.000	51.000	0.0	-0.800	0.0
GR	768.600	1000.000	755.400	1100.000	750.000	1200.000	750.500	1300.000	751.100	1331.000
GR	744.300	1343.000	751.400	1355.000	751.000	1400.000	751.600	1500.000	754.800	1600.000

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

I1 DAVIDSON CO. BASIN 0 STREAM 2 MILLER CREEK
 I2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6910
 I3 50 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ MINV TOIR STRT METRIC HVINS 0 WSEL FQ
 -10. 3. 0. 0. 0.005000 0.0 0.0 0.0 698.800 0.0

J2 NPROF IPILOT PREVS XSECV XSECH FN ALLOC IBW CHNIM ITRAGE
 2.000 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0

*PROF 2

CCHV= 0.100 CERV= 0.300
 *SECNO 5850.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	LOSS	BANK ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
5850.00	6.86	701.36	0.0	698.80	702.24	0.87	0.0	0.0	702.50
1450.	0.	1437.	13.	0.	191.	16.	0.	0.	701.00
0.0	0.0	7.53	0.80	0.060	0.040	0.060	0.0	692.50	1149.83
0.005008	5850.	5850.	5850.	0	0	5	0.0	88.75	1238.58

*SECNO 5949.000

3301 HV CHANGED MORE THAN HVINS

5949.00	9.44	702.24	0.0	0.0	702.49	0.24	0.18	0.06	695.50
1450.	203.	1241.	6.	121.	296.	8.	1.	0.	700.10
0.01	1.68	4.19	0.77	0.060	0.040	0.060	0.040	692.80	1713.10
0.000929	99.	99.	99.	2	0	0	0.0	82.03	1795.13

SPECIAL BRIDGE

5070. VARIASLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XCOR	COFO	ROLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
0.30	1.50	2.50	0.0	39.00	0.01	334.00	0.0	692.80	692.80	

*SECNO. 5970.000
 CLASS: A LOW FLOW

3420 BRIDGE W.S.= 702.24 BRIDGE VELOCITY= 03.94 CALCULATED CHANNEL AREA= 368.

EGPRS EGLWC H3 QWEIR APR BAREA TRAPEZOID ELIC ELTRD

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR = 01

MODIFICATION = 50,51,52

T1 DAVIDSON CO. BASIN 0 STREAM 2 MILLER CREEK
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 0 WSEL FQ
-10. 4. 0. 0. 0.005000 0.0 0.0 0. 699.800 0.0

J2 NPROF IPILOT PREVS XSECV XSECH EN ALLDC IBW CHNIM ITRACE
3.000 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0

*PROF 3

CCHV= 0.100 CEHV= 0.300

*SECNO 5850.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDST
5850.00	9.44	701.94	0.0	699.80	702.87	0.93	0.0	0.0	702.50
1750.	0.	1666.	84.	0.	210.	56.	0.	0.	701.00
0.0	0.0	7.93	1.49	0.060	0.040	0.060	0.0	692.50	1149.41
0.005007	5850.	5850.	5850.	0	0	4	0.0	112.77	1262.18

*SECNO 5949.000

3301 HV CHANGED MORE THAN HVINS

5949.00	10.04	702.84	0.0	0.0	703.13	0.29	0.19	0.06	695.50
1750.	266.	1472.	12.	143.	320.	13.	1.	0.	700.10
0.01	1.85	4.60	0.95	0.060	0.040	0.060	0.040	692.80	1709.90
0.001013	99.	99.	99.	2	0	0	0.0	87.23	1797.14

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	COFO	ROLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
0.90	1.50	2.50	0.0	39.00	0.01	334.00	0.0	692.80	692.80	

*SECNO 5970.000

CLASS A LOW FLO

3420 BRIDGE V.S. = 702.64 BRIDGE VELOCITY = 4.47 CALCULATED CHANNEL AREA = 391.

EGPRS EGLNC H3 QWEIR APR BAREA TRAPEZOID ELLC ELTRD

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

T1 DAVIDSON CO. BASIN 2 STREAM 2 MILLER CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6916
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INC	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	EQ
	-10.	5.	0.	0.	0.005000	0.0	0.0	0.	700.800	0.0

J2	NPROF	IPLT	PREVS	XSECV	XSECH	EN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 4

CCHV= 0.100 CEHV= 0.300
 *SECNO 5850.000

SECNO	DEPTH	WSEL	CRINS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
R	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
5850.00	10.67	703.17	0.0	700.80	704.21	1.04	0.0	0.0	702.50
2700.	12.	2242.	446.	14.	252.	175.	0.	0.	701.00
0.0	0.65	8.90	2.55	0.060	0.040	0.060	0.0	692.50	1108.07
0.005075	5850.	5850.	5850.	0	0	4	0.0	188.28	1296.34

*SECNO 5949.000

5301 HV CHANGED MORE THAN HVINS

5949.00	11.24	704.04	0.0	0.0	704.50	0.47	0.24	0.06	695.50
2700.	472.	2189.	39.	194.	367.	28.	1.	0.	700.10
0.01	2.43	5.97	1.42	0.060	0.040	0.060	0.040	692.80	1703.51
0.001420	92.	99.	99.	2	0	0	0.0	107.50	1911.01

SPECIAL BRIDGE

3070 VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOP	COFO	FOLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
0.90	1.50	2.50	0.0	39.00	0.01	334.00	0.0	692.80	692.80	

*SECNO 5970.000
 PRESSURE AND WEIR FLOW

EGPRS	EGLIC	H3	WEIR	QPR	BAREA	TRAPEZOID	ELLC	ELTRD
						AREA		

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
5850.000	5850.00	0.0	0.0	890.00	692.50	699.59	0.0	6.59	1151.12	1180.17	135.11	0.0
5850.000	5850.00	0.0	0.0	1450.00	692.50	701.36	0.0	7.53	1149.83	1238.58	206.87	1.78
5850.000	5850.00	0.0	0.0	1750.00	692.50	701.94	0.0	7.93	1149.41	1262.18	266.52	0.58
5850.000	5850.00	0.0	0.0	2700.00	692.50	703.17	0.0	8.90	1108.07	1296.34	440.25	1.23
5949.000	99.00	0.0	0.0	890.00	692.80	700.31	0.0	3.63	1723.36	1788.71	282.90	0.0
5949.000	99.00	0.0	0.0	1450.00	692.80	702.24	0.0	4.19	1713.10	1795.13	424.82	1.93
5949.000	99.00	0.0	0.0	1750.00	692.80	702.84	0.0	4.60	1709.90	1797.14	475.71	0.60
5949.000	99.00	0.0	0.0	2700.00	692.80	704.04	0.0	5.97	1703.51	1811.01	588.36	1.20
5970.000	21.00	705.20	703.40	890.00	692.80	700.31	0.0	3.63	1723.36	1788.71	282.89	0.0
5970.000	21.00	705.20	703.40	1450.00	692.80	702.24	0.0	4.19	1713.11	1795.13	424.75	1.93
5970.000	21.00	705.20	703.40	1750.00	692.80	702.84	0.0	4.61	1709.91	1797.13	475.65	0.60
5970.000	21.00	705.20	703.40	2700.00	692.80	705.21	0.0	5.04	1676.70	1848.80	745.34	2.37
6070.000	100.00	0.0	0.0	890.00	693.00	700.18	0.0	6.45	1151.05	1180.37	138.01	0.0
6070.000	100.00	0.0	0.0	1450.00	693.00	702.02	0.0	7.28	1149.72	1250.50	221.65	1.83
6070.000	100.00	0.0	0.0	1750.00	693.00	702.65	0.0	7.51	1149.25	1268.19	291.58	0.63
6070.000	100.00	0.0	0.0	2700.00	693.00	705.33	0.0	5.50	1037.24	1324.61	863.29	2.68
8100.000	2030.00	0.0	0.0	760.00	705.50	708.05	707.39	3.52	1084.46	1563.54	398.05	0.0
8100.000	2030.00	0.0	0.0	1380.00	705.50	708.76	0.0	3.46	1084.03	1584.00	672.59	0.71
8100.000	2030.00	0.0	0.0	1680.00	705.50	709.02	0.0	3.51	1080.62	1592.02	793.36	0.27
8100.000	2030.00	0.0	0.0	2590.00	705.50	709.38	0.0	4.39	1075.29	1602.35	966.07	0.36
* 11100.000	3000.00	0.0	0.0	700.00	716.50	722.32	722.32	7.12	1234.40	1490.31	229.11	0.0
* 11100.000	3000.00	0.0	0.0	1300.00	716.50	722.75	722.75	8.91	1223.62	1503.08	346.13	0.43
* 11100.000	3000.00	0.0	0.0	1580.00	716.50	722.92	722.92	9.50	1219.54	1504.49	392.22	0.16
* 11100.000	3000.00	0.0	0.0	2450.00	716.50	723.34	723.34	11.00	1209.05	1508.13	514.63	0.42
* 14850.000	3750.00	0.0	0.0	600.00	732.20	737.28	737.28	7.23	1171.03	1401.39	130.42	0.0
14850.000	3750.00	0.0	0.0	1140.00	732.20	738.17	738.12	7.62	1138.09	1416.33	292.98	0.89
14850.000	3750.00	0.0	0.0	1390.00	732.20	738.44	0.0	7.84	1127.61	1421.09	366.81	0.27
14850.000	3750.00	0.0	0.0	2150.00	732.20	739.13	0.0	8.30	1102.96	1432.27	573.06	0.68
17650.000	2800.00	0.0	0.0	560.00	742.30	748.79	748.79	6.03	1135.31	1353.97	135.17	0.0
* 17650.000	2800.00	0.0	0.0	1050.00	742.30	749.33	749.33	6.92	1175.39	1454.85	241.05	0.54
* 17650.000	2800.00	0.0	0.0	1280.00	742.30	749.51	749.51	7.13	1172.06	1484.81	293.97	0.18
* 17650.000	2800.00	0.0	0.0	2000.00	742.30	749.81	749.81	8.42	1166.42	1506.57	394.69	0.30

MADE IN U.S.A.

17950

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
17850.000	200.00	0.0	0.0	560.00	743.10	749.52	749.52	6.44	1186.66	1353.85	124.33	0.0
* 17850.000	200.00	0.0	0.0	1050.00	743.10	750.09	750.09	7.19	1176.17	1447.80	229.86	0.57
* 17850.000	200.00	0.0	0.0	1280.00	743.10	750.24	750.24	7.58	1173.30	1473.70	273.54	0.16
* 17850.000	200.00	0.0	0.0	2000.00	743.10	750.64	750.64	8.19	1165.83	1507.67	405.59	0.40
17900.000	50.00	0.0	0.0	560.00	743.30	749.83	0.0	0.0	1763.00	1781.80	122.86	0.0
17900.000	50.00	0.0	0.0	1050.00	743.30	749.83	0.0	0.0	1763.00	1781.80	122.89	0.00
17900.000	50.00	0.0	0.0	1280.00	743.30	749.57	0.0	0.0	1763.00	1781.80	117.96	0.26
* 17900.000	50.00	0.0	0.0	2000.00	743.30	750.33	750.33	0.0	1763.00	1781.80	132.21	0.76
17949.000	49.00	755.90	754.30	560.00	743.30	749.87	0.0	0.0	1763.00	1781.80	123.47	0.0
17949.000	49.00	755.90	754.30	1050.00	743.30	750.07	0.0	0.0	1763.00	1781.80	127.33	0.21
17949.000	49.00	755.90	754.30	1280.00	743.30	750.15	0.0	0.0	1763.00	1781.80	128.85	0.08
* 17949.000	49.00	755.90	754.30	2000.00	743.30	752.04	0.0	0.0	1722.56	1871.85	172.29	1.88
18000.000	51.00	0.0	0.0	560.00	743.50	750.00	750.00	6.02	1185.27	1353.98	135.51	0.0
18000.000	51.00	0.0	0.0	1050.00	743.50	751.16	750.54	3.88	1163.63	1511.39	446.66	1.17
18000.000	51.00	0.0	0.0	1280.00	743.50	751.81	750.71	2.96	1151.73	1531.46	680.32	0.64
18000.000	51.00	0.0	0.0	2000.00	743.50	754.32	0.0	1.53	1105.11	1609.01	1793.81	2.52
18200.000	200.00	0.0	0.0	560.00	744.30	750.77	750.77	6.15	1185.71	1353.94	131.96	0.0
18200.000	200.00	0.0	0.0	1050.00	744.30	751.28	751.20	7.27	1176.38	1445.97	227.03	0.50
18200.000	200.00	0.0	0.0	1280.00	744.30	751.81	0.0	5.38	1166.38	1506.75	395.57	0.54
18200.000	200.00	0.0	0.0	2000.00	744.30	754.33	0.0	2.01	1119.79	1585.35	1409.12	2.52
* 21060.000	2860.00	0.0	0.0	440.00	757.60	763.69	763.69	6.28	1097.63	1308.21	163.08	0.0
* 21060.000	2860.00	0.0	0.0	850.00	757.60	764.19	764.19	7.63	1093.65	1318.48	270.33	0.49
* 21060.000	2860.00	0.0	0.0	1050.00	757.60	764.31	764.31	8.53	1092.67	1321.03	298.05	0.12
* 21060.000	2860.00	0.0	0.0	1700.00	757.60	764.75	764.75	10.06	1089.13	1330.17	401.07	0.44
* 23360.000	2300.00	0.0	0.0	350.00	770.20	775.79	775.79	5.99	1065.12	1265.34	142.61	0.0
* 23360.000	2300.00	0.0	0.0	675.00	770.20	776.15	776.15	7.72	1054.35	1286.00	221.64	0.37
* 23360.000	2300.00	0.0	0.0	860.00	770.20	776.33	776.33	8.29	1049.69	1295.89	263.56	0.18
23360.000	2300.00	0.0	0.0	1340.00	770.20	776.69	0.0	9.26	1045.52	1306.89	355.86	0.36
* 25880.000	2520.00	0.0	0.0	255.00	786.40	792.17	792.17	9.92	1111.34	1120.25	25.71	0.0
* 25880.000	2520.00	0.0	0.0	510.00	786.40	793.89	793.89	7.18	1045.81	1184.86	145.57	1.72
* 25880.000	2520.00	0.0	0.0	640.00	786.40	794.10	794.10	7.71	1045.14	1199.86	176.23	0.21
* 25880.000	2520.00	0.0	0.0	1020.00	786.40	794.45	794.45	9.44	1043.99	1203.50	231.53	0.35
27133.000	1253.00	0.0	0.0	183.00	795.80	799.49	0.0	4.35	1068.65	1125.45	56.84	0.0
* 27133.000	1253.00	0.0	0.0	370.00	795.80	799.69	799.69	7.29	1066.92	1127.28	68.69	0.20
* 27133.000	1253.00	0.0	0.0	485.00	795.80	799.95	799.95	7.73	1064.75	1129.58	84.56	0.25
27133.000	1253.00	0.0	0.0	760.00	795.80	800.56	0.0	7.93	1059.52	1135.10	127.36	0.61
* 27233.000	100.00	0.0	0.0	183.00	798.50	802.84	802.84	8.00	1589.99	1609.69	28.94	0.0
* 27233.000	100.00	0.0	0.0	370.00	798.50	803.94	803.94	8.21	1571.74	1619.49	60.20	1.10
* 27233.000	100.00	0.0	0.0	485.00	798.50	804.29	804.29	8.58	1558.93	1623.55	79.69	0.35
* 27233.000	100.00	0.0	0.0	760.00	798.50	804.90	804.90	8.92	1537.63	1630.72	128.35	0.61
27287.000	54.00	810.30	803.50	183.00	798.50	804.82	0.0	2.28	1539.60	1629.74	120.70	0.0
* 27287.000	54.00	810.30	803.50	370.00	798.50	810.75	0.0	0.39	1429.17	1699.13	1220.87	5.93
27287.000	54.00	810.30	803.50	485.00	798.50	811.12	0.0	0.47	1399.17	1703.49	1328.18	0.37
27287.000	54.00	810.30	803.50	760.00	798.50	811.58	0.0	0.67	1382.68	1708.89	1473.73	0.46

18150

18200

18249

18300

18500

MADE IN U.S.A.

WICD

SECNO	XLCH	ELTRD	ELLC	D	ELMIN	CWSEL	CRHS	VCH	SSTA	ENDST	AREA	DIFWSP
27387.000	100.00	0.0	0.0	183.00	801.20	804.63	804.61	5.65	1070.84	1123.14	42.95	0.0
27387.000	100.00	0.0	0.0	370.00	801.20	810.75	0.0	0.68	1030.81	1170.97	667.21	6.11
27387.000	100.00	0.0	0.0	485.00	801.20	811.12	0.0	0.82	1029.87	1173.45	719.93	0.37
27387.000	100.00	0.0	0.0	760.00	801.20	811.57	0.0	1.17	1028.71	1176.49	786.37	0.46

SUMMARY OF ERRORS

CAUTION SECNO=11100.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=11100.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=11100.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=11100.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=11100.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=11100.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=11100.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=11100.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=11100.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=11100.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=11100.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=14850.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=14850.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=17650.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=17650.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=17650.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=17650.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=17650.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=17650.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=17650.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=17650.000 PROFILE= 4 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=17850.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=17850.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=17850.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=17850.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=17850.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=17850.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=17850.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=17850.000 PROFILE= 4 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=17900.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=17900.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=17900.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=17949.000 PROFILE= 4 HYDRAULIC JUMP O.S.
CAUTION SECNO=18000.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=18000.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=18000.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=18200.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=18200.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=18200.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=18200.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=18200.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

MADE IN U.S.A.

CAUTION SECNO=21060.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=21060.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=21060.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=21060.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=21060.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=21060.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=21060.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=21060.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=21060.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=21060.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=23360.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=23360.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=23360.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=23360.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=23360.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=23360.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY

CAUTION SECNO=25880.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=25880.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=25880.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=25880.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=25880.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=25880.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=25880.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=25880.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=25880.000 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO=27133.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=27133.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=27133.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=27133.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY

CAUTION SECNO=27233.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=27233.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=27233.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=27233.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=27233.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=27233.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=27233.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=27233.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=27233.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=27233.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=27233.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=27233.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=27287.000 PROFILE= 2 HYDRAULIC JUMP D.S.

MADE IN U.S.A.

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
5850.000	0.	-2.4	-0.6	1.2
5949.000	99.	-2.5	-0.6	1.2
5970.000	120.	-2.5	-0.6	2.4
6070.000	220.	-2.5	-0.6	2.7
8100.000	2250.	-1.0	-0.3	0.4
11100.000	5250.	-0.6	-0.2	0.4
14850.000	9000.	-1.2	-0.3	0.7
17650.000	11800.	-0.7	-0.2	0.3
17850.000	12000.	-0.7	-0.2	0.4
17900.000	12050.	0.3	0.3	0.8
17949.000	12099.	-0.3	-0.1	1.9
18000.000	12150.	-1.6	-0.6	2.5
18000.000	12350.	-1.0	-0.5	2.5
21030.000	15210.	-0.6	-0.1	0.4
23360.000	17510.	-0.5	-0.2	0.4
25880.000	20030.	-1.9	-0.2	0.4
27133.000	21283.	-0.5	-0.3	0.6
27233.000	21383.	-1.4	-0.3	0.6
27297.000	21437.	-6.3	-0.4	0.5
27387.000	21537.	-6.5	-0.4	0.5

WEIGHTED AVG FOR REACH		-1.0	-0.3	0.7

FHF FOR THE REACH = 0.1 WITH 89.4% OF THE REACH WITHIN 0.5 FEET
 ZONE FOR THE REACH = 1.2

MADE IN U.S.A.

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50, 51, 52

EJ

MADE IN U.S.A.

X1	6070.000	17.000	1149.000	1183.000	100.000	100.000	100.000	0.0	0.500	0.0
GR	718.000	1000.000	705.200	1033.000	703.700	1050.000	703.300	1100.000	702.500	1149.000
GR	692.900	1156.000	692.500	1161.000	693.000	1167.000	701.000	1183.000	700.900	1200.000
GR	701.500	1250.000	703.300	1300.000	706.400	1350.000	709.100	1400.000	713.200	1450.000
GR	717.300	1500.000	718.000	1511.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.050	0.050	0.029	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	760.000	1380.000	1680.000	2590.000	1680.000	0.0	0.0	0.0	0.0

X1	5100.000	22.000	1084.000	1101.000	2030.000	2030.000	2030.000	0.0	0.0	0.0
GR	727.500	1000.000	725.400	1010.000	712.400	1022.000	711.100	1050.000	708.800	1084.000
GR	705.600	1086.000	705.500	1091.000	709.800	1101.000	708.300	1200.000	707.500	1250.000
GR	707.500	1300.000	706.700	1350.000	706.300	1400.000	706.600	1500.000	707.600	1550.000
GR	709.300	1600.000	711.200	1650.000	714.000	1700.000	717.800	1750.000	723.400	1800.000
GR	727.100	1850.000	728.000	1859.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.044	0.044	0.024	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	700.000	1300.000	1580.000	2450.000	1580.000	0.0	0.0	0.0	0.0

X1	11100.000	15.000	1433.000	1449.000	3000.000	3000.000	3000.000	0.0	0.0	0.0
GR	739.200	1000.000	730.700	1050.000	726.100	1100.000	725.400	1150.000	723.700	1200.000
GR	721.700	1250.000	721.000	1300.000	721.600	1400.000	722.000	1433.000	716.500	1442.000
GR	722.000	1449.000	722.400	1500.000	726.900	1539.000	733.500	1600.000	737.900	1650.000
NC	0.044	0.044	0.024	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	600.000	1140.000	1390.000	2150.000	1390.000	0.0	0.0	0.0	0.0
ET	0.0	0.1	0.0	0.0	0.0	7.100	1225.000	1325.000	0.0	0.0

X1	14450.000	14.000	1264.000	1292.000	3750.000	3750.000	3750.000	0.0	0.0	0.0
GR	755.800	1000.000	751.400	1025.000	744.000	1053.000	739.200	1100.000	736.500	1200.000
GR	736.500	1264.000	732.200	1274.000	738.100	1292.000	738.600	1300.000	737.200	1400.000
GR	741.900	1479.000	742.500	1500.000	744.600	1549.000	752.700	1600.000	0.0	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	560.000	1050.000	1280.000	2000.000	1280.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-8.400	0.0	0.0	0.0	0.0

X1	17750	13.000	1331.000	1355.000	2800.000	2800.000	2800.000	0.0	-2.000	0.0
GR	763.600	1000.000	755.400	1100.000	750.000	1200.000	750.500	1300.000	751.100	1331.000
GR	744.300	1343.000	751.400	1355.000	751.000	1400.000	751.600	1500.000	754.800	1600.000
GR	754.400	1700.000	764.100	1800.000	767.400	1850.000	0.0	0.0	0.0	0.0

X1	17350.000	0.0	0.0	0.0	200.000	200.000	200.000	0.0	0.800	0.0
----	-----------	-----	-----	-----	---------	---------	---------	-----	-------	-----

X1	17900.000	15.000	1763.000	1781.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	771.400	1000.000	768.300	1029.000	766.200	1045.000	757.700	1255.000	752.100	1650.000
GR	752.000	1763.000	743.300	1763.000	743.300	1781.800	752.000	1781.800	751.900	1850.000
GR	754.700	2300.000	758.700	2650.000	761.700	2800.000	764.800	2900.000	770.200	3000.000
GR	1.250	1.500	2.500	0.0	18.800	0.670	199.400	0.0	0.0	0.0

RENO NC BT 150

EXCEL 754.3

ROELV 755.9

X1	17940.000	0.0	0.0	0.0	49.000	49.000	49.000	0.0	0.0	0.0
BT	0.0	0.0	1.000	754.300	755.900	0.0	0.0	0.0	0.0	0.0
BT	17.000	1000.000	771.400	0.0	1200.000	764.600	0.0	1400.000	758.700	0.0
BT	1500.000	757.000	0.0	1600.000	755.900	0.0	1763.000	755.900	754.300	1781.800
BT	755.900	754.300	1900.000	755.700	0.0	2000.000	756.200	0.0	2200.000	757.400
BT	0.0	2400.000	758.000	0.0	2500.000	758.300	0.0	2600.000	758.100	0.0
BT	2700.000	759.400	0.0	2800.000	761.700	0.0	2900.000	764.800	0.0	3000.000
BT	770.400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-8.400	0.0	0.0	0.0	0.0

U.U U.U

X1	15000.000	13.000	1331.000	1355.000	51.000	51.000	51.000	0.0	-0.800	0.0
GR	760.600	1000.000	755.400	1100.000	750.000	1200.000	750.500	1300.000	751.100	1331.000
GR	744.300	1343.000	751.400	1355.000	751.000	1400.000	751.600	1500.000	754.800	1600.000
GR	758.400	1700.000	764.100	1800.000	767.400	1850.000	0.0	0.0	0.0	0.0

X1	18200.000	0.0	0.0	0.0	200.000	200.000	200.000	0.0	0.800	0.0
NC	0.044	13430.044	0.624	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	440.000	850.000	1950.000	1700.000	1050.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	21060.000	16.000	1150.000	1163.000	2860.000	2860.000	2860.000	0.0	0.0	0.0
GR	760.500	1000.000	769.600	1050.000	763.400	1100.000	762.500	1150.000	757.600	1157.000
GR	763.200	1163.000	763.500	1200.000	762.800	1250.000	763.000	1296.000	763.300	1300.000
GR	765.700	1350.000	767.800	1400.000	771.600	1450.000	775.100	1500.000	777.200	1550.000
GR	777.900	1566.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.044	0.044	0.024	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	350.000	675.000	860.000	1340.000	860.000	0.0	0.0	0.0	0.0

X1	23360.000	12.000	1210.000	1221.000	2500.000	2300.000	2300.000	0.0	0.0	0.0
GR	793.000	1000.000	778.300	1027.000	776.300	1050.000	774.600	1100.000	775.600	1200.000
GR	775.500	1210.000	770.200	1216.000	775.000	1221.000	776.400	1300.000	778.500	1350.000
GR	781.400	1400.000	784.800	1500.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.044	0.044	0.024	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	255.000	510.000	640.000	1020.000	640.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	7.100	1085.000	1135.000	0.0	0.0

X1	25830.000	9.000	1111.000	1121.000	2520.000	2520.000	2520.000	0.0	0.0	0.0
GR	808.000	1000.000	792.600	1050.000	792.800	1100.000	792.700	1111.000	786.400	1115.000
GR	793.000	1121.000	794.100	1200.000	795.100	1250.000	804.200	1300.000	0.0	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	183.000	370.000	485.000	760.000	485.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	7.100	1064.000	1114.000	0.0	0.0

X1	27133.000	14.000	1072.000	1064.000	1253.000	1253.000	1253.000	0.0	-5.400	0.0
GR	822.900	1000.000	808.700	1036.000	804.500	1072.000	801.800	1076.000	801.200	1078.000
GR	801.900	1060.000	804.600	1094.000	804.100	1100.000	804.400	1121.000	807.600	1150.000
GR	818.100	1200.000	816.600	1210.000	818.500	1241.000	822.900	1254.000	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	7.100	1560.000	1610.000	0.0	0.0

X1	27233.000	20.000	1595.500	1500.500	100.000	100.000	100.000	0.0	0.0	0.0
GR	826.900	1000.000	822.200	1100.000	818.000	1200.000	813.900	1300.000	811.100	1400.000
GR	810.500	1450.000	808.600	1455.000	804.800	1540.000	803.500	1588.000	801.000	1595.500
GR	800.300	1596.200	798.500	1598.000	800.300	1599.800	801.000	1600.500	803.300	1612.000
GR	815.100	1750.000	816.500	1800.000	820.600	1900.000	823.800	2000.000	826.300	2100.000
NC	0.900	1.500	2.500	0.0	5.000	0.010	19.630	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	7.100	1559.000	1623.000	0.0	0.0

ROBE MCS3 1510 MXLCEL 803.5 ROELV 211.2

X1	27287.000	0.0	0.0	0.0	54.000	54.000	54.000	0.0	0.0	0.0
BT	0.0	0.0	1.000	803.500	810.300	0.0	0.0	0.0	0.0	0.0
BT	17.000	1000.000	826.900	0.0	1100.000	822.200	0.0	1200.000	818.000	0.0
BT	1300.000	813.900	0.0	1400.000	811.100	0.0	1500.000	810.300	0.0	1550.000
BT	810.600	0.0	1595.500	811.300	801.000	1596.200	811.300	802.800	1598.000	811.200
BT	803.500	1599.800	811.200	802.800	1600.500	811.200	801.000	1700.000	813.700	0.0
BT	1800.000	816.600	0.0	1590.000	820.600	0.0	2000.000	823.800	0.0	2100.000
BT	826.300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-8.400	0.0	0.0	0.0	0.0

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

T1 DAVIDSON CO. BASIN D STREAM 2 MILLER CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 100 YEAR FLOODWAY

J1	TCHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	702.940	0.0
J2	NPROF	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

*PROF 2

CCHV= 0.100 CEHV= 0.300
 *SECNO 5850,000
 2800 NAT Q1= 247.44 WSEL= 701.94 ENC Q1= 298.74 WSEL= 702.94 RATIO= -0.2074
 NAT Q1= 349. RATIOS LOB,CH,POB= 0.0015 0.8550 0.1435 WSEL= 702.94

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	OLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

3470 ENCROACHMENT STATIONS=	1149.0	1183.0	TYPE=	4	TARGET=	0.145
5850.00	10.44	702.94	0.0	701.94	703.74	0.80 0.0 0.0 702.50
1750.	0.	1750.	0.	0.	244.	0. 0. 0. 701.00
0.0	0.0	7.17	0.0	0.060	0.040	0.060 0.0 692.50 1149.00
0.003723	5850.	5850.	5850.	0	0	0 0.0 34.00 1183.00

*SECNO 5949,000
 2800 NAT Q1= 549.86 WSEL= 702.84 ENC Q1= 560.22 WSEL= 703.84 RATIO= -0.0188
 NAT Q1= 686. RATIOS LOB,CH,POB= 0.1712 0.8161 0.0127 WSEL= 703.84

3470 ENCROACHMENT STATIONS=	1749.0	1788.0	TYPE=	4	TARGET=	0.184
5949.00	10.81	703.61	0.0	702.84	704.00	0.39 0.22 0.04 695.50
1750.	0.	1750.	0.	0.	350.	0. 1. 0. 700.10
0.01	0.0	5.00	0.0	0.060	0.040	0.060 0.040 692.80 1749.00
0.001481	99.	99.	99.	2	0	0 0.0 39.00 1788.00

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	COFO	RLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	0.30	1.50	2.50	0.0	39.00	0.01	334.00	0.0	692.80	692.80

 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

100 YEAR FLOOD WATER SUR
 SUMMARY PRINTOUT

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
A 5850.000	5850.00	0.0	0.0	1750.00	692.50	701.94	0.0	7.93	1149.41116	1262.22	266.70	0.0
5850.000	5850.00	0.0	0.0	1750.00	692.50	702.94	0.0	7.17	1149.09	1183.00	244.06	1.00
5949.000	99.00	0.0	0.0	1750.00	692.80	702.84	0.0	4.60	1709.90	1797.14	475.76	0.0
5949.000	99.00	0.0	0.0	1750.00	692.80	703.61	0.0	5.00	1749.00	1788.00	349.78	0.77
5970.000	21.00	705.20	703.40	1750.00	692.80	702.84	0.0	4.60	1709.90	1797.13	475.67	0.0
5970.000	21.00	999999.00	0.0	1750.00	692.80	703.61	0.0	5.00	1749.00	1788.00	349.75	0.77
E 6070.000	100.00	0.0	0.0	1750.00	693.00	702.65	0.0	7.51	1149.25116	1268.17	291.49	0.0
6070.000	100.00	0.0	0.0	1750.00	693.00	703.56	0.0	7.05	1149.00	1183.00	248.22	0.91
C 8100.000	2030.00	0.0	0.0	1680.00	705.50	709.02	0.0	3.51	1080.62	1592.02	793.49	0.0
8100.000	2030.00	0.0	0.0	1680.00	705.50	709.90	0.0	4.46	1080.55107	1393.96	645.04	0.87
* 11100.000	3000.00	0.0	0.0	1580.00	716.50	722.92	722.92	9.50	1219.53144	1504.50	392.29	0.0
* 11100.000	3000.00	0.0	0.0	1580.00	716.50	723.84	723.84	11.54	1364.91	1463.28	248.59	0.92
H 14850.000	3750.00	0.0	0.0	1390.00	732.20	738.44	0.0	7.84	1127.62	1421.08	366.74	0.0
14850.000	3750.00	0.0	0.0	1390.00	732.20	739.21	0.0	8.26	1225.00127	1325.00	253.41	0.76
* 17650.000	2800.00	0.0	0.0	1280.00	742.30	749.51	749.51	7.13	1172.06134	1484.81	293.97	0.0
* 17650.000	2800.00	0.0	0.0	1280.00	742.30	750.16	750.16	8.74	1289.21	1385.41	193.15	0.65
* 17850.000	200.00	0.0	0.0	1280.00	743.10	750.24	750.24	7.58	1173.30	1473.70	273.54	0.0
* 17850.000	200.00	0.0	0.0	1280.00	743.10	750.97	750.97	9.00	1292.61	1382.52	184.75	0.73
17900.000	50.00	0.0	0.0	1280.00	743.30	749.57	0.0	0.0	1763.00	1781.80	117.96	0.0
17900.000	50.00	0.0	0.0	1280.00	743.30	750.16	0.0	0.0	1763.00	1777.53	99.72	0.59
17949.000	49.00	755.90	754.30	1280.00	743.30	750.15	0.0	0.0	1763.00	1781.80	128.85	0.0
17949.000	49.00	755.90	754.30	1280.00	743.30	750.95	0.0	0.0	1763.00	1781.80	143.89	0.80
18000.000	51.00	0.0	0.0	1280.00	743.50	751.81	750.71	2.96	1151.73	1531.46	680.32	0.0
18000.000	51.00	0.0	0.0	1280.00	743.50	752.77	0.0	3.08	1248.65134	1424.77	556.37	0.97
H 18200.000	200.00	0.0	0.0	1280.00	744.30	751.81	0.0	5.38	1166.38	1506.75	395.57	0.0
18200.000	200.00	0.0	0.0	1280.00	744.30	752.70	0.0	5.84	1274.63134	1398.04	298.91	0.89

68 55

	SECNO	XLCH	ELTRD	ELLC	C	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENOST	AREA	DIFWSP
I *	21060.000	2860.00	0.0	0.0	1050.00	757.60	764.31	764.31	8.53	1092.67	1321.03	298.05	0.0
I *	21060.000	2860.00	0.0	0.0	1050.00	757.60	765.21	765.21	10.33	1139.05	1206.84	174.20	0.90
										15	50		
*	23360.000	2300.00	0.0	0.0	860.00	770.20	776.33	776.33	8.29	1049.69	1295.89	263.56	0.0
*	23360.000	2300.00	0.0	0.0	860.00	770.20	777.28	777.28	10.04	1167.48	1231.73	150.63	0.95
										40	16		
*	25880.000	2520.00	0.0	0.0	640.00	786.40	794.10	794.10	7.71	1045.14	1199.86	176.23	0.0
*	25880.000	2520.00	0.0	0.0	640.00	786.40	794.41	794.41	9.34	1085.00	1135.00	108.74	0.31
										30	20		
*	27133.000	1253.00	0.0	0.0	485.00	795.80	799.95	799.95	7.73	1064.75	1129.58	84.56	0.0
*	27133.000	1253.00	0.0	0.0	485.00	795.80	800.31	0.0	6.73	1064.00	1114.00	91.50	0.37
										14	36		
*	27233.000	100.00	0.0	0.0	485.00	798.50	804.29	804.29	8.58	1558.93	1623.55	79.69	0.0
*	27233.000	100.00	0.0	0.0	485.00	798.50	804.38	804.38	8.73	1560.00	1610.00	76.02	0.09
	27287.000	54.00	810.30	803.50	485.00	798.50	811.12	0.0	0.47	1399.17	1703.49	1328.18	0.0
	27287.000	54.00	810.30	803.50	485.00	798.50	811.11	0.0	1.06	1559.00	1623.00	517.00	-0.01
M	27387.000	100.00	0.0	0.0	485.00	801.20	811.12	0.0	0.82	1029.87	1173.45	719.73	0.0
	27387.000	100.00	0.0	0.0	485.00	801.20	811.12	0.0	0.98	1044.69	1133.61	573.15	0.0
										33	56		

UNITS: 1.000000 ONE FOOT (30.48 CM) WITH WIDTH 7.50 FT

SUMMARY OF ERRORS

MOD

- CAUTION SECNO=11100.000 PROFILE= 1 CRITICAL DEPTH ASSUMED.
- CAUTION SECNO=11100.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO=11100.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO=11100.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO=11100.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO=11100.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

- CAUTION SECNO=17650.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO=17650.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
- CAUTION SECNO=17650.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO=17650.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

- CAUTION SECNO=17850.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO=17850.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
- CAUTION SECNO=17850.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO=17850.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

- CAUTION SECNO=21060.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO=21060.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO=21060.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO=21060.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO=21060.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO=21060.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

- CAUTION SECNO=23360.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO=23360.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
- CAUTION SECNO=23360.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO=23360.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

- CAUTION SECNO=25880.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO=25880.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY

CAUTION SECNO=25880.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=25880.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

CAUTION SECNO=27133.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=27133.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY

CAUTION SECNO=27233.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=27233.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=27233.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=27233.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=27233.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=27233.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

FLOODWAY DATA, 100 YEAR FLOOD WATER SUR
 PROFILE NO. 2

STATION	FLOODWAY		MEAN VELOCITY	WATER SURFACE ELEVATION		DIFFERENCE
	WIDTH (FT)	SECTION AREA		WITH FLOODWAY	WITHOUT FLOODWAY	
A 5850.000	112	267	6.6	701.9	701.9	0.0
5949.000	34	244	7.2	702.9	701.9	1.0
5970.000	39.	350.	5.0	703.6	702.8	0.8
B 6078.000	39	350	5.0	703.6	702.8	0.8
C 8100.000	112	248	7.0	703.6	702.7	0.9
D 11100.000	313.	645.	2.6	709.9	709.0	0.9
E 14850.000	233	249	6.4	725.8	722.9	2.9
F 17450.000	100.	253.	5.5	739.2	738.4	0.8
17850.000	56	193	6.8	760.2	749.5	10.7
17900.000	90.	185.	6.9	750.9	750.2	0.7
17949.000	15.	100.	12.8	750.2	749.6	0.6
G 18000.000	19.	144.	8.9	751.0	750.2	0.8
H 18500.000	176.	558.	2.3	752.8	751.8	1.0
I 21060.000	123.	299.	4.3	752.7	751.8	0.9
J 23360.000	68.	174.	6.0	765.2	764.3	0.9
K 25880.000	64.	151.	5.7	777.3	776.3	1.0
L 27133.000	50.	109.	5.9	794.4	794.1	0.3
27233.000	50.	92.	5.3	800.3	799.9	0.4
27287.000	64.	76.	6.4	804.4	804.3	0.1
M 27387.000	89.	517.	0.9	811.1	811.1	0.0
		573.	0.8	811.1	811.1	0.0

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

EJ