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

C
 T1 LEXINGTON-DAVIDSON CO. STREAM 21L
 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.	0.030000	0.0	0.0	0.	651.500	0.0
J2	NPROF	IPLT	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
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	93.000	199.000	263.000	434.000	263.000	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	100.000	10.000	1300.000	1305.000	100.000	100.000	100.000	0.0	-4.700	0.0
GR	669.000	1000.000	667.300	1100.000	658.200	1200.000	653.900	1300.000	651.400	1301.000
GR	651.200	1303.000	651.500	1304.000	654.000	1305.000	654.400	1316.000	669.000	1376.000
X1	150.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.100	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	200.000	17.000	1428.200	1431.700	50.000	50.000	50.000	0.0	0.0	0.0
GR	674.600	1000.000	668.800	1100.000	664.300	1200.000	662.200	1270.000	657.100	1327.000
GR	652.800	1427.000	651.900	1428.200	650.700	1428.800	650.100	1430.000	650.700	1431.200
GR	651.900	1431.700	652.900	1432.000	653.300	1443.000	660.000	1470.000	660.100	1500.000
GR	660.600	1600.000	674.600	1690.000	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	3.500	0.010	9.620	0.0	0.0	0.0

RONG YOUNG DRIVE MXLCEL 653.6

RDELV 659.9

X1	276.000	0.0	0.0	0.0	76.000	76.000	76.000	0.0	0.0	0.0
X2	0.0	0.0	1.900	653.600	0.0	0.0	0.0	0.0	0.0	0.0
BT	13.000	1000.000	674.600	0.0	1100.000	658.800	0.0	1200.000	664.000	0.0
BT	1300.000	661.400	0.0	1400.000	660.200	0.0	1428.200	659.900	651.900	1428.800
BT	659.900	653.100	1430.000	659.900	653.600	1431.200	659.900	653.100	1431.700	659.900
BT	651.900	1500.000	660.100	0.0	1600.000	660.600	0.0	1690.000	674.600	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	326,000	10,000	1300,000	1305,000	50,000	50,000	50,000	0.0	0.0	0.0
GR	669,000	1000,000	667,300	1100,000	658,200	1200,000	653,900	1300,000	651,400	1300,000
GR	651,200	1503,000	651,500	1304,000	654,000	1305,000	654,400	1316,000	669,000	1376,000

X1	376,000	0.0	0.0	0.0	50,000	50,000	50,000	0.0	1,100	0.0
QT	5,000	66,000	142,000	190,000	318,000	190,000	0.0	0.0	0.0	0.0

X1	1400,000	9,000	1140,000	1146,000	1024,000	1024,000	1024,000	0.0	0.0	0.0
GR	701,900	1000,000	693,900	1100,000	686,400	1140,000	682,900	1142,000	682,400	1143,000
GR	682,900	1144,000	686,700	1146,000	695,600	1200,000	701,900	1246,000	0.0	0.0
EJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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T1 LEXINGTON-DAVIDSON CO. STREAM 21L
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INC	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	0.030000	0.0	0.0	0.	652.500	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECP	FN	ALLDC	IBW	CHNIM	ITRACE
	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 CEHV= 0.300
 *SECNO 100.000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	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	CORAR	TOPWID	ENDST

3720	CRITICAL DEPTH ASSUMED								
100.00	4.07	650.57	650.57	652.50	651.03	0.46	0.0	0.0	649.20
199.	47.	116.	36.	22.	17.	13.	0.	0.	649.30
0.0	2.12	6.83	2.70	0.055	0.035	0.055	0.0	646.50	1268.02
0.010148	100.	100.	100.	0	18	0	0.0	51.57	1319.60

*SECNO 150.000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	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	CORAR	TOPWID	ENDST

3685.20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

150.00	4.00	651.60	651.60	0.0	652.14	0.53	0.55	0.02	650.30
199.	44.	121.	35.	20.	17.	12.	0.	0.	650.40
0.00	2.20	7.25	2.79	0.055	0.035	0.055	0.034	647.60	1269.67
0.011772	50.	50.	50.	20	5	0	0.0	49.63	1319.30

CCHV= 0.100 CEHV= 0.300
 *SECNO 200.000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	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	CORAR	TOPWID	ENDST

MADE IN U.S.A.

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T1 LEXINGTON-DAVIDSON CO. STREAM 21L
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	4.	0.	0.	0.030000	0.0	0.0	0.	654.500	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLOC	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 100.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	GCH	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
3720	CRITICAL DEPTH ASSUMED								
100.00	4.25	650.75	650.75	654.50	651.31	0.56	0.0	0.0	649.20
263.	71.	140.	52.	28.	18.	16.	0.	0.	649.30
0.0	2.53	7.79	3.26	0.055	0.035	0.055	0.0	646.50	1263.90
0.012348	100.	100.	100.	0	11	0	0.0	56.43	1320.33

*SECNO 150.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	GCH	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

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	GCH	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
3720	CRITICAL DEPTH ASSUMED								
150.00	4.28	651.88	651.88	0.0	652.41	0.53	0.60	0.00	650.30
263.	72.	138.	53.	29.	18.	16.	0.	0.	650.40
0.00	2.50	7.62	3.22	0.055	0.035	0.055	0.034	647.60	1263.27
0.011702	50.	50.	50.	20	5	0	0.0	57.17	1320.44

CCHV= 0.100 CEHV= 0.300
 *SECNO 200.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	GCH	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

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 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ MINV IDJR STRT METRIC HVINS Q WSEL FQ
 -10. 5. 0. 0. 0.030000 0.0 0.0 0. 655.500 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 0.0

*PROF 4

CCHV= 0.100 CEHV= 0.300

*SECNO 100,000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	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	CORAR	TOPWID	ENDST	

3720 CRITICAL DEPTH ASSUMED

100.00	4.71	651.21	651.21	655.50	651.87	0.66	0.0	0.0	649.20	
434.	152.	183.	99.	47.	20.	23.	0.	0.	649.30	
0.0	3.24	9.09	4.22	0.055	0.035	0.055	0.0	646.50	1253.33	
0.014323	100.	100.	100.	0	11	0	0.0	68.86	1322.19	

*SECNO 150,000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	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	CORAR	TOPWID	ENDST	

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

150.00	4.75	652.35	652.35	0.0	652.96	0.61	0.69	0.00	650.30	
434.	155.	179.	100.	49.	20.	24.	0.	0.	650.40	
0.00	3.16	8.79	4.12	0.055	0.035	0.055	0.034	647.60	1252.25	
0.013202	50.	50.	50.	20	5	0	0.0	70.13	1322.38	

CCHV= 0.100 CEHV= 0.300

*SECNO 200,000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	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	CORAR	TOPWID	ENDST	

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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
* 0.00 100.000	100.00	0.0	0.0	93.00	646.50 646.50	649.88	649.88 649.88	5.88	1284.14	1316.75	23.24	0.0
* 100.000 100.000	100.00	0.0	0.0	199.00	646.50	650.57	650.57	6.83	1268.02	1319.60	52.40	0.0
* 20 100.000	100.00	0.0	0.0	263.00	646.50	650.75	650.75	7.79	1263.90	1320.33	61.99	0.0
* 100.000	100.00	0.0	0.0	434.00	646.50	651.21	651.21	9.09	1253.33	1322.19	90.45	0.45
* 150.000	50.00	0.0	0.0	93.00	647.60	650.98	650.98	5.87	1284.09	1316.76	23.30	0.0
* 150.000 150.000	50.00	0.0	0.0	199.00	647.60	651.60	651.60	7.25	1269.67	1319.30	48.82	0.0
* 40 150.000	50.00	0.0	0.0	263.00	647.60	651.88	651.88	7.62	1263.27	1320.44	63.53	0.0
* 150.000	50.00	0.0	0.0	434.00	647.60	652.35	652.35	8.79	1252.25	1322.38	93.68	0.47
* 200.000	50.00	0.0	0.0	93.00	650.10	653.57	653.57	5.96	1409.07	1444.09	24.17	0.0
* 200.000 200.000	50.00	0.0	0.0	199.00	650.10	654.04	654.04	7.33	1398.23	1445.97	43.45	0.0
* 62 200.000	50.00	0.0	0.0	263.00	650.10	654.31	654.31	7.28	1391.91	1447.07	57.44	0.0
* 200.000	50.00	0.0	0.0	434.00	650.10	654.70	654.70	8.36	1382.86	1448.63	80.96	0.39
138 276.000 276.000	76.00	659.90	653.60	93.00	650.10	655.74	0.0	0.83	1358.45	1452.86	165.04	0.0
276.000 276.000	76.00	659.90	653.60	199.00	650.10	660.30	0.0	0.28	1291.27	1539.36	826.23	0.0
276.000 276.000	76.00	659.90	653.60	263.00	650.10	660.50	0.0	0.36	1289.02	1579.69	880.56	0.0
276.000 276.000	76.00	659.90	653.60	434.00	650.10	660.81	0.0	0.54	1285.50	1601.37	978.01	0.31
188 326.000 326.000	50.00	0.0	0.0	93.00	651.20	655.72	0.0	2.14	1257.58	1321.44	79.67	0.0
326.000 326.000	50.00	0.0	0.0	199.00	651.20	660.29	0.0	0.52	1176.93	1340.23	630.58	0.0
326.000 326.000	50.00	0.0	0.0	263.00	651.20	660.50	0.0	0.65	1174.77	1341.05	663.68	0.0
326.000 326.000	50.00	0.0	0.0	434.00	651.20	660.81	0.0	0.98	1171.34	1342.33	716.26	0.31
238 376.000 376.000	50.00	0.0	0.0	93.00	652.30	655.40	654.88	6.63	1290.60	1313.37	16.69	0.0
376.000 376.000	50.00	0.0	0.0	199.00	652.30	660.29	0.0	0.75	1189.06	1335.71	460.23	0.0
376.000 376.000	50.00	0.0	0.0	263.00	652.30	660.50	0.0	0.92	1186.85	1336.54	490.04	0.0
376.000 376.000	50.00	0.0	0.0	434.00	652.30	660.81	0.0	1.36	1183.41	1337.82	537.59	0.31
* 1400 1400.000	1024.00	0.0	0.0	66.00	682.40	685.31	685.31	7.76	1140.62	1145.27	8.51	0.0
* 1400 1400.000	1024.00	0.0	0.0	142.00	682.40	686.63	686.63	9.12	1138.79	1145.96	15.70	0.0
* 1400 1400.000	1024.00	0.0	0.0	190.00	682.40	687.54	687.54	8.45	1133.92	1151.10	26.66	0.0
* 1400.000	1024.00	0.0	0.0	318.00	682.40	688.62	688.62	8.86	1128.14	1157.67	51.97	1.08

SUMMARY OF ERRORS

CAUTION SECNO= 100.000 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 100,000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 100,000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 100,000 PROFILE= 4 CRITICAL DEPTH ASSUMED

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

CAUTION SECNO= 200,000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 200,000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 200,000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
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= 1400,000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1400,000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1400,000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1400,000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1400,000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1400,000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1400,000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1400,000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 1400,000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1400,000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 1400,000 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
100.000	0.	-0.9	-0.2	0.5
150.000	50.	-0.9	-0.3	0.5
200.000	109.	-0.7	-0.3	0.4
276.000	176.	-4.8	-0.2	0.3
326.000	226.	-4.8	-0.2	0.3
376.000	276.	-5.1	-0.2	0.3
1400.000	1300.	-2.2	-0.9	1.1
WEIGHTED AVG FOR REACH		-3.5	-0.5	0.6

FHE FOR THE REACH = 0.35 WITH 84.6% OF THE REACH WITHIN 1.0 FEET
 ZONE FOR THE REACH = A 7

MDOT 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.