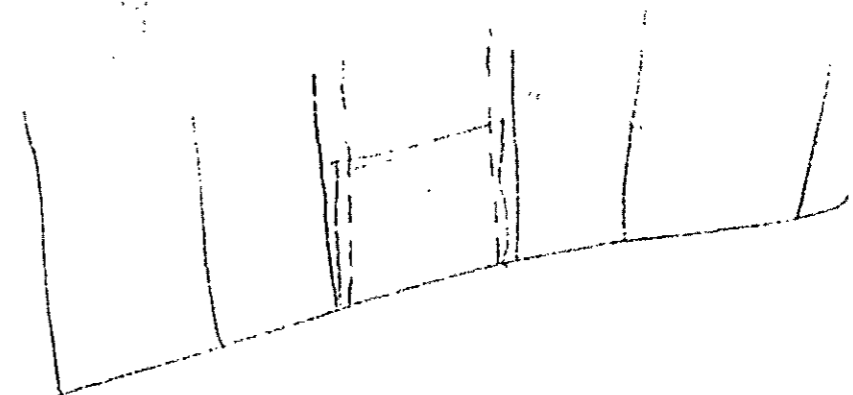


Y1 11319.000 17.000 1300.000 1316.000 18.000 18.000 18.000 0.0 0.0 0.0



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

C
 T1 KANNAPOLIS-ROWAN CO. STRM 7K PATTERSON BRANCH
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	TDIR	STRT	METRIC	HVINS	Q	WSEL	F0	
	-1.	2.	0.	0.	0.010000	0.0	0.0	0.0	749.100	0.0	
J2	MPROF	IPL0T	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										
	39.000	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	
WC	0.060	0.080	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0	0.0
BT	5.000	345.000	626.000	771.000	1124.000	771.000	0.0	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	0.0
X1	11250.000	18.000	1294.000	1316.000	11250.000	11250.000	11250.000	0.0	0.0	0.0	0.0
GR	760.500	1000.000	757.400	1033.000	754.500	1040.000	754.600	1044.000	754.500	1061.000	
GR	752.600	1100.000	749.200	1150.000	747.600	1200.000	747.900	1250.000	746.500	1194.000	
GR	743.300	1298.000	742.900	1301.000	743.300	1310.000	748.100	1316.000	749.300	1350.000	
GR	751.700	1400.000	756.100	1450.000	759.700	1462.000	0.0	0.0	0.0	0.0	
X1	11275.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	0.470	0.0	
X1	11300.000	17.000	1300.000	1316.000	25.000	25.000	25.000	0.0	0.0	0.0	
GR	758.400	850.000	757.200	900.000	755.500	950.000	753.700	1000.000	752.100	1050.000	
GR	751.700	1068.000	750.800	1100.000	750.200	1150.000	750.100	1200.000	750.600	1250.000	
GR	744.200	1300.000	743.900	1308.000	743.700	1312.000	743.800	1316.000	754.200	1350.000	
GR	757.600	1400.000	761.900	1450.000	0.0	0.0	0.0	0.0	0.0	0.0	
X1	11301.000	0.0	0.0	0.0	1.000	1.000	1.000	0.0	0.0	0.0	
BT	16.000	850.000	756.400	0.0	900.000	757.200	0.0	950.000	755.500	0.0	
BT	1000.000	753.700	0.0	1050.000	752.100	0.0	1068.000	751.700	0.0	1100.000	
BT	759.800	0.0	1150.000	750.200	0.0	1200.000	750.100	0.0	1250.000	750.600	
BT	0.0	1300.000	751.800	750.200	1308.000	752.200	750.600	1316.000	752.400	750.800	
BT	1350.000	754.200	0.0	1400.000	757.600	0.0	1450.000	761.900	0.0	0.0	

100.0 100.0 100.0 100.0

X1	11319.000	17.000	1300.000	1316.000	18.000	18.000	18.000	0.0	0.0	0.0
BT	16.000	850.000	758.400	0.0	900.000	757.200	0.0	950.000	755.500	0.0
BT	1000.000	753.700	0.0	1050.000	752.100	0.0	1068.000	751.700	0.0	1100.000
BT	750.800	0.0	1150.000	750.200	0.0	1200.000	750.100	0.0	1250.000	750.600
BT	0.0	1300.000	751.800	750.200	1308.000	752.200	750.600	1316.000	752.400	750.800
BT	1350.000	754.200	0.0	1400.000	757.600	0.0	1450.000	761.900	0.0	0.0
GR	758.400	850.000	757.200	900.000	755.500	950.000	753.700	1000.000	752.100	1050.000
GR	751.700	1068.000	750.800	1100.000	750.200	1150.000	750.100	1200.000	750.600	1250.000
GR	744.200	1300.000	743.900	1308.000	743.700	1312.000	743.800	1316.000	754.200	1350.000
GR	757.600	1400.000	761.900	1450.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	11320.000	0.0	0.0	0.0	1.000	1.000	1.000	0.0	0.0	0.0
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X1	11345.000	18.000	1294.000	1316.000	25.000	25.000	25.000	0.0	1.400	0.0
GR	760.500	1000.000	757.400	1033.000	754.500	1040.000	754.800	1044.000	754.500	1061.000
GR	752.600	1100.000	749.200	1150.000	747.600	1200.000	747.900	1250.000	746.500	1294.000
GR	743.300	1298.000	742.900	1301.000	743.300	1310.000	748.100	1316.000	749.300	1350.000
GR	751.700	1400.000	756.100	1450.000	759.700	1462.000	0.0	0.0	0.0	0.0

X1	11370.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	1.870	0.0
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X1	11398.000	15.000	1528.000	1558.000	28.000	28.000	28.000	0.0	-1.400	0.0
GR	764.200	1000.000	762.600	1100.000	760.300	1200.000	758.000	1300.000	752.500	1400.000
GR	749.900	1500.000	749.000	1528.000	745.500	1535.000	745.600	1541.000	745.800	1549.000
GR	751.200	-1558.000	752.500	1600.000	759.200	1700.000	765.200	1800.000	768.700	1900.000
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	11448.000	33.000	1692.500	1707.500	50.000	50.000	50.000	0.0	0.0	0.0
GR	767.000	1022.000	764.300	1100.000	763.200	1200.000	761.300	1300.000	758.500	1400.000
GR	755.100	1500.000	754.700	1516.000	752.200	1559.000	749.600	1659.000	748.800	1692.500
GR	747.000	1693.000	745.900	1694.000	745.500	1695.000	745.300	1696.000	745.500	1697.000
GR	745.900	1698.000	747.000	1699.000	748.800	1699.500	748.800	1700.500	747.000	1701.000
GR	745.900	1702.000	745.500	1703.000	745.300	1704.000	745.500	1705.000	745.900	1706.000
GR	747.000	1707.000	748.800	1707.500	750.900	1717.000	752.200	1759.000	757.900	1842.000
GR	760.500	1900.000	765.900	2000.000	769.100	2100.000	0.0	0.0	0.0	0.0
SR	0.900	1.500	2.500	0.0	7.000	0.010	76.900	0.0	0.0	0.0

RDNO JACKSON STREET MXLCEL 752.3 RDELV 753.3

X1	11502.000	0.0	0.0	0.0	54.000	54.000	54.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	752.300	0.0	0.0	0.0	0.0	0.0	0.0
BT	30.000	1022.000	767.000	0.0	1100.000	764.300	0.0	1200.000	763.200	0.0
BT	1300.000	761.300	0.0	1400.000	758.500	0.0	1500.000	755.100	0.0	1600.000
BT	752.000	0.0	1692.500	753.100	748.800	1693.000	753.100	750.700	1694.000	753.100
BT	751.700	1695.000	753.100	752.200	1696.000	753.100	752.300	1697.000	753.100	752.200
BT	1698.000	753.100	751.700	1699.000	753.100	750.700	1699.500	753.100	748.800	1700.500
BT	753.300	748.800	1701.000	753.300	750.700	1702.000	753.300	751.700	1703.000	753.300
BT	752.200	1704.000	753.500	752.300	1705.000	753.300	752.200	1706.000	753.300	751.700
BT	1707.000	753.300	750.700	1707.500	753.300	748.800	1712.000	753.300	0.0	1800.000
BT	756.000	0.0	1900.000	760.500	0.0	2000.000	765.900	0.0	2100.000	769.100
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.080	0.080	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	11532.000	15.000	1528.000	1558.000	30.000	30.000	30.000	0.0	0.0	0.0
GR	764.200	1000.000	762.600	1100.000	760.300	1200.000	758.000	1300.000	752.500	1400.000
GR	749.900	1500.000	749.000	1528.000	745.500	1535.000	745.600	1541.000	745.800	1549.000
GR	751.200	1558.000	752.500	1600.000	759.200	1700.000	765.200	1800.000	768.700	1900.000

X1	11602.000	0.0	0.0	0.0	70.000	70.000	70.000	0.0	0.600	0.0
QT	5.000	314.000	574.000	711.000	1045.000	711.000	0.0	0.0	0.0	0.0
X1	11960.000	16.000	1487.000	1504.000	358.000	358.000	358.000	0.0	0.100	0.0
GR	767.600	1000.000	766.900	1100.000	763.100	1200.000	758.600	1300.000	753.900	1400.000
GR	754.000	1487.000	748.900	1494.000	748.800	1497.000	748.700	1500.000	751.900	1504.000
GR	756.200	1512.000	757.700	1600.000	755.600	1700.000	761.000	1800.000	766.600	1900.000
GR	768.100	2000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	12010.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.200	0.0
MC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	12040.000	16.000	1400.000	1614.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	770.800	1028.000	768.100	1100.000	766.500	1200.000	763.100	1300.000	758.400	1400.000
GR	754.700	1500.000	755.600	1600.000	750.000	1600.000	749.300	1607.000	749.000	1614.000
GR	755.600	1614.000	755.600	1700.000	756.300	1800.000	760.000	1900.000	764.400	2000.000
GR	767.700	2100.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	14.000	0.010	58.800	0.0	0.0	0.0

RDNQ MARIE AVENUE MXLCEL 753.9 RDELV 755.6

X1	12092.000	0.0	0.0	0.0	32.000	32.000	32.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	753.900	0.0	0.0	0.0	0.0	0.0	0.0
BT	13.600	1028.000	770.600	0.0	1100.000	768.100	0.0	1200.000	766.500	0.0
BT	1300.000	763.100	0.0	1400.000	758.400	0.0	1500.000	754.700	0.0	1600.000
BT	755.600	753.500	1614.000	755.600	753.900	1700.000	755.600	0.0	1800.000	756.300
BT	0.0	1900.000	760.000	0.0	2000.000	764.400	0.0	2100.000	767.700	0.0
MC	0.080	0.080	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	12122.000	16.000	1487.000	1504.000	30.000	30.000	30.000	0.0	0.600	0.0
GR	767.600	1000.000	766.900	1100.000	763.100	1200.000	758.600	1300.000	753.900	1400.000
GR	754.000	1487.000	748.900	1494.000	748.800	1497.000	748.700	1500.000	751.900	1504.000
GR	756.200	1512.000	757.700	1600.000	755.600	1700.000	761.000	1800.000	766.600	1900.000
GR	768.100	2000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	12192.000	0.0	0.0	0.0	70.000	70.000	70.000	0.0	0.200	0.0
QT	5.000	239.000	450.000	565.000	850.000	565.000	0.0	0.0	0.0	0.0

X1	12550.000	17.000	1388.000	1416.000	358.000	358.000	358.000	0.0	-0.800	0.0
GR	774.900	1026.000	771.700	1100.000	767.900	1200.000	761.300	1300.000	759.300	1388.000
GR	752.800	1396.000	753.400	1402.000	753.300	1408.000	759.800	1416.000	761.100	1500.000
GR	754.700	1600.000	769.200	1700.000	772.100	1800.000	772.500	1900.000	773.000	2000.000
GR	775.000	2100.000	776.400	2178.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	12600.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.300	0.0
MC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	12650.000	21.000	1400.000	1414.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	775.400	1026.000	772.500	1100.000	767.300	1200.000	761.300	1300.000	760.800	1400.000
GR	754.800	1400.000	754.800	1401.000	752.700	1401.000	753.200	1407.000	753.200	1413.000
GR	753.900	1413.000	753.900	1414.000	760.800	1414.000	761.200	1500.000	765.100	1600.000
GR	768.300	1700.000	771.600	1800.000	772.400	1900.000	773.000	2000.000	774.700	2100.000
GR	776.500	2178.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	14.000	0.010	79.100	0.0	0.0	0.0

RDNQ RUTH AVENUE MXLCEL 758.9 RDELV 760.8

X1	12671.000	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	758.900	0.0	0.0	0.0	0.0	0.0	0.0
BT	14.000	1026.000	775.400	0.0	1100.000	772.500	0.0	1200.000	767.300	0.0
BT	1300.000	761.300	0.0	1400.000	760.800	758.700	1414.000	760.800	758.900	1500.000
BT	761.200	0.0	1600.000	765.100	0.0	1700.000	768.300	0.0	1800.000	771.600
BT	0.0	1900.000	772.400	0.0	2000.000	773.000	0.0	2100.000	774.700	0.0
BT	2172.000	776.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.080	0.080	0.080	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	12701.000	17.000	1388.000	1416.000	30.000	30.000	30.000	0.0	0.0	0.0
GR	774.900	1026.000	771.700	1100.000	767.900	1200.000	761.300	1300.000	759.300	1388.000
GR	752.800	1396.000	753.400	1402.000	753.300	1408.000	759.800	1416.000	761.100	1500.000
GR	764.700	1600.000	769.200	1700.000	772.100	1800.000	772.500	1900.000	773.000	2000.000
GR	775.000	2100.000	776.400	2178.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	12771.000	0.0	0.0	0.0	70.000	70.000	70.000	0.0	0.400	0.0
QT	5.000	147.000	293.000	377.000	593.000	377.000	0.0	0.0	0.0	0.0

X1	12980.000	15.000	1483.000	1498.000	209.000	209.000	209.000	0.0	0.200	0.0
GR	779.300	1050.000	777.300	1100.000	773.600	1200.000	772.200	1300.000	766.000	1400.000
GR	759.500	1483.000	756.000	1488.000	756.300	1490.000	756.100	1492.000	759.300	1498.000
GR	764.800	1600.000	768.900	1700.000	768.600	1800.000	770.400	1900.000	778.200	2000.000

X1	13030.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.100	0.0
NC	0.060	0.060	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	13080.000	20.000	1500.000	1514.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	760.600	1052.000	778.500	1100.000	774.400	1200.000	770.800	1300.000	766.400	1400.000
GR	765.000	1500.000	759.800	1500.000	759.800	1501.000	757.700	1501.000	756.700	1507.000
GR	756.200	1513.000	759.700	1513.000	759.700	1514.000	765.000	1514.000	764.400	1600.000
GR	767.000	1700.000	768.500	1800.000	770.200	1900.000	776.100	2000.000	781.500	2100.000
SB	0.900	1.500	2.500	0.0	14.000	0.010	86.800	0.0	0.0	0.0

RDN0 MABLE STREET EXLCEL 763.8

RDELV 764.4

X1	13101.000	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	763.800	0.0	0.0	0.0	0.0	0.0	0.0
BT	13.000	1052.000	760.600	0.0	1100.000	778.500	0.0	1200.000	774.400	0.0
BT	1300.000	770.300	0.0	1400.000	766.400	0.0	1500.000	764.400	763.800	1514.000
BT	764.400	763.300	1600.000	764.400	0.0	1700.000	767.000	0.0	1800.000	768.500
BT	0.0	1900.000	770.200	0.0	2000.000	776.100	0.0	2100.000	781.500	0.0
NC	0.080	0.080	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	13131.000	15.000	1483.000	1498.000	30.000	30.000	30.000	0.0	0.500	0.0
GR	779.300	1050.000	777.300	1100.000	773.600	1200.000	772.200	1300.000	766.000	1400.000
GR	759.500	1483.000	756.000	1488.000	756.300	1490.000	756.100	1492.000	759.300	1498.000
GR	764.800	1600.000	768.900	1700.000	768.600	1800.000	770.400	1900.000	778.200	2000.000

X1	13201.000	0.0	0.0	0.0	70.000	70.000	70.000	0.0	0.200	0.0
QT	5.000	103.000	214.000	281.000	457.000	281.000	0.0	0.0	0.0	0.0

X1	13490.000	19.000	1407.000	1418.000	289.000	289.000	289.000	0.0	0.200	0.0
GR	781.500	1000.000	780.900	1100.000	777.900	1200.000	774.100	1300.000	771.500	1400.000
GR	769.800	1407.000	765.400	1409.000	765.300	1411.000	765.700	1413.000	770.500	1418.000
GR	772.000	1500.000	779.500	1600.000	777.000	1700.000	775.100	1800.000	774.600	1811.000
GR	769.600	1819.000	774.500	1828.000	777.500	1900.000	785.800	2000.000	0.0	0.0

X1	13540.000	0.0	0.0	0.0	50,000	50,000	50,000	0.0	0.100	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	13590.000	22.000	1900.000	1914.000	50,000	50,000	50,000	0.0	0.0	0.0
GR	787.200	1058.000	783.900	1100.000	778.300	1200.000	774.900	1300.000	776.500	1400.000
GR	779.700	1500.000	780.300	1600.000	775.900	1700.000	772.500	1800.000	772.200	1900.000
GR	766.200	1900.000	765.400	1907.000	767.100	1914.000	772.200	1914.000	773.700	2000.000
GP	776.700	2100.000	776.400	2200.000	777.100	2300.000	777.200	2318.000	780.400	2400.000
GR	786.000	2500.000	790.500	2563.000	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	14.000	0.010	53.900	0.0	0.0	0.0

ROND EAST 11TH ST. MXLCEL 770.5 RDELV 772.2

X1	13611.000	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	770.500	0.0	0.0	0.0	0.0	0.0	0.0
BT	19.000	1058.000	787.200	0.0	1100.000	783.900	0.0	1200.000	778.500	0.0
BT	1300.000	774.900	0.0	1400.000	776.500	0.0	1500.000	779.700	0.0	1600.000
BT	750.300	0.0	1700.000	775.900	0.0	1800.000	772.500	0.0	1900.000	772.200
BT	770.500	1914.000	772.200	770.500	2000.000	773.700	0.0	2100.000	776.700	0.0
BT	2200.000	776.400	0.0	2300.000	777.100	0.0	2318.000	772.200	0.0	2400.000
BT	760.400	0.0	2500.000	786.000	0.0	2563.000	790.500	0.0	0.0	0.0
NC	0.080	0.080	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	13641.000	19.000	1407.000	1418.000	30,000	30,000	30,000	0.0	0.200	0.0
GR	761.500	1000.000	780.900	1100.000	777.900	1200.000	774.100	1300.000	771.500	1400.000
GR	769.800	1407.000	765.400	1409.000	765.300	1411.000	765.700	1413.000	770.500	1418.000
GR	772.000	1500.000	779.500	1600.000	777.000	1700.000	775.100	1800.000	774.600	1811.000
GR	769.600	1819.000	774.500	1828.000	777.500	1900.000	785.800	2000.000	0.0	0.0

X1	13711.000	0.0	0.0	0.0	70,000	70,000	70,000	0.0	0.200	0.0
BT	5.000	88.000	186.000	244.000	401.000	244.000	0.0	0.0	0.0	0.0

X1	14434.000	17.000	1607.000	1620.000	723.000	723.000	723.000	0.0	-3.400	0.0
GR	792.400	1000.000	790.000	1100.000	787.400	1200.000	784.500	1300.000	780.500	1400.000
GR	783.900	1500.000	782.100	1600.000	782.400	1607.000	777.000	1611.000	777.200	1613.000
GR	777.100	1615.000	782.000	1620.000	785.500	1700.000	786.500	1720.000	796.700	1740.000
GR	795.100	1800.000	797.900	1850.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	14484.000	0.0	0.0	0.0	50,000	50,000	50,000	0.0	1.300	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	14534.000	22.000	1597.900	1603.000	50,000	50,000	50,000	0.0	0.0	0.0
GR	789.200	1000.000	791.000	1100.000	788.700	1200.000	785.000	1300.000	782.600	1400.000
GR	761.600	1500.000	782.100	1546.000	781.300	1587.000	781.600	1594.000	777.600	1597.900
GR	776.600	1598.000	776.500	1599.000	776.400	1600.000	776.500	1601.000	776.600	1602.000
GR	777.600	1603.000	782.000	1607.000	782.800	1629.000	783.200	1700.000	786.000	1800.000
GR	795.100	1900.000	797.600	1933.000	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	17.600	0.0	0.0	0.0

ROND EAST 13TH ST. MXLCEL 781.0 RDELV 781.6

X1	14566.000	0.0	0.0	0.0	32,000	32,000	32,000	0.0	0.0	0.0
X2	0.0	0.0	1.000	781.000	0.0	0.0	0.0	0.0	0.0	0.0
BT	17.000	1000.000	789.200	0.0	1100.000	791.000	0.0	1200.000	788.700	0.0
BT	1300.000	785.000	0.0	1400.000	782.600	0.0	1500.000	781.600	0.0	1597.900
BT	781.600	777.600	1598.000	781.600	779.500	1599.000	781.600	780.000	1600.000	781.600

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

T1 KANNAPOLIS-ROWAN CO. STRM 7K PATTERSON BRANCH
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDTR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	0.010000	0.0	0.0	0.	750.100	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	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 11250.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	GLOB	QCH	ORCB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IUC	ICONT	CORAR	TOPWID	ENDST
11250.00	5.29	748.19	0.0	750.10	748.63	0.44	0.0	0.0	748.50
626.	108.	517.	0.	71.	89.	0.	0.	0.	748.10
0.0	1.53	5.80	0.24	0.080	0.060	0.080	0.0	742.90	1181.54
0.009980	11250.	11250.	11250.	0	0	4	0.0	137.03	1318.57

*SECNO 11275.000

3265 DIVIDED FLOW

11275.00	4.95	748.32	747.69	0.0	749.02	0.69	0.31	0.08	746.97
626.	55.	571.	0.	35.	82.	0.	0.	0.	748.57
0.00	1.58	6.98	0.0	0.080	0.060	0.080	0.058	743.37	1192.14
0.015866	25.	25.	25.	4	19	0	0.0	113.95	1315.69

*SECNO 11300.000

11300.00	5.33	749.03	0.0	0.0	749.23	0.19	0.16	0.05	744.26
626.	179.	356.	91.	91.	82.	45.	0.	0.	743.60
0.00	1.96	4.34	2.02	0.080	0.060	0.080	0.058	743.70	1262.21
0.003481	25.	25.	25.	2	0	0	0.0	70.91	1333.12

*SECNO 11302.000

3370 NORMAL BRIDGE. MPD= 16 MIN ELTRO= 750.10 MAX ELLC= 750.80

11301.00	5.34	749.04	0.0	0.0	749.23	0.19	0.00	0.00	744.20
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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR = 01
 MODIFICATION = 50,51,52

T1 KANNAPOLIS-ROWAN CO. STRM 7K PATTERSON BRANCH
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6916
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	4.	0.	0.	0.010000	0.0	0.0	0.	752.100	0.0
J2	NPROF	IPL0T	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 11250.000

SECNO	DEPTH	QWSEL	CR1WS	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	XL0RL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
11250.00	5.58	748.48	0.0	752.10	748.92	0.44	0.0	0.0	746.50
771.	190.	579.	1.	105.	96.	2.	0.	0.	748.10
0.0	1.82	6.06	0.61	0.080	0.060	0.080	0.0	742.90	1172.53
0.009950	11250.	11250.	11250.	0	0	6	0.0	154.20	1326.74

*SECNO 11275.000

11275.00	5.23	748.60	748.59	0.0	749.32	0.72	0.32	0.08	746.97
771.	122.	649.	0.	65.	88.	0.	0.	0.	748.57
0.00	1.89	7.38	0.02	0.080	0.060	0.080	0.058	743.37	1183.35
0.016477	25.	25.	25.	4	11	0	0.0	133.58	1316.93

*SECNO 11300.000

11300.00	5.61	749.31	0.0	0.0	749.55	0.25	0.19	0.05	744.20
771.	229.	428.	114.	102.	86.	50.	0.	0.	743.80
0.00	2.24	4.95	2.30	0.080	0.060	0.080	0.058	743.70	1260.08
0.004227	25.	25.	25.	2	0	0	0.0	73.94	1334.01

*SECNO 11301.000

3370 NORMAL BRIDGE, NPD= 16 MIN ELTRD= 750.10 MAX ELLC= 750.80

11301.00	5.61	749.31	0.0	0.0	749.56	0.25	0.00	0.00	744.20
771.	229.	427.	114.	102.	86.	50.	0.	0.	743.80
0.00	2.24	4.94	2.30	0.080	0.060	0.080	0.057	743.70	1260.03
0.004205	1.	1.	1.	0	0	0	0.0	74.01	1334.03

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

T1 KANNAPOLIS-ROWAN CO. STR.1 7K PATTERSON BRANCH
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	5.	0.	0.	0.010000	0.0	0.0	0.	753.100	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 4

CCHV= 0.100 CEHV= 0.300

*SECNO 11250.000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOR	VCH	VROR	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWTD	ENDST
11250.00	6.12	749.02	0.0	753.10	749.47	0.45	0.0	0.0	746.50
1124.	406.	705.	13.	175.	107.	12.	0.	0.	748.10
0.0	2.32	6.56	1.10	0.080	0.060	0.080	0.0	742.90	1155.50
0.009942	11250.	11250.	11250.	0	0	6	0.0	106.53	1342.11

*SECNO 11275.000

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

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

11275.00	5.80	749.17	749.17	0.0	749.86	0.69	0.31	0.07	746.97
1124.	334.	784.	5.	132.	100.	5.	0.	0.	748.57
0.00	2.53	7.81	1.03	0.080	0.060	0.080	0.058	743.37	1165.66
0.015465	25.	25.	25.	2	10	0	0.0	167.31	1332.97

*SECNO 11300.000

11300.00	6.02	749.72	0.0	0.0	750.13	0.41	0.24	0.03	744.20
1124.	350.	602.	172.	119.	93.	57.	0.	0.	743.80
0.00	2.94	6.40	3.01	0.080	0.060	0.080	0.058	743.70	1256.90
0.006567	25.	25.	25.	2	0	0	0.0	78.44	1335.34

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 53,51,52

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

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT

SECCO	YLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
11250.000	11250.00	0.0	0.0	345.00	742.90	747.18	0.0	5.02	1272.70	1314.85	74.66	0.0
11250.000	11250.00	0.0	0.0	626.00	742.90	748.19	0.0	5.80	1181.54	1318.57	160.38	1.01
11250.000	11250.00	0.0	0.0	771.00	742.90	748.48	0.0	6.06	1172.53	1326.74	202.35	0.29
11250.000	11250.00	0.0	0.0	1124.00	742.90	749.02	0.0	6.56	1155.58	1342.11	294.79	0.54
11275.000	25.00	0.0	0.0	345.00	743.37	747.40	0.0	5.49	1280.36	1314.54	65.36	0.0
11275.000	25.00	0.0	0.0	626.00	743.37	748.32	747.69	6.98	1192.14	1315.69	116.74	0.92
11275.000	25.00	0.0	0.0	771.00	743.37	748.60	748.59	7.38	1183.35	1316.93	152.55	0.28
* 11275.000	25.00	0.0	0.0	1124.00	743.37	749.17	749.17	7.81	1165.66	1332.97	237.71	0.57
11300.000	25.00	0.0	0.0	345.00	743.70	747.91	0.0	3.42	1271.00	1329.44	145.43	0.0
11300.000	25.00	0.0	0.0	626.00	743.70	749.03	0.0	4.34	1262.21	1333.12	218.20	1.12
11300.000	25.00	0.0	0.0	771.00	743.70	749.31	0.0	4.95	1260.08	1334.01	237.99	0.27
11300.000	25.00	0.0	0.0	1124.00	743.70	749.72	0.0	6.48	1256.90	1335.34	268.96	0.41
11301.000	1.00	750.10	750.80	345.00	743.70	747.91	0.0	3.41	1270.94	1329.47	145.87	0.0
11301.000	1.00	750.10	750.80	626.00	743.70	749.04	0.0	4.33	1262.16	1333.14	218.68	1.12
11301.000	1.00	750.10	750.80	771.00	743.70	749.31	0.0	4.94	1260.03	1334.03	238.47	0.27
11301.000	1.00	750.10	750.80	1124.00	743.70	749.72	0.0	6.46	1256.82	1335.38	269.76	0.41
11319.000	18.00	750.10	750.80	345.00	743.70	747.97	0.0	3.35	1270.56	1329.63	148.78	0.0
11319.000	18.00	750.10	750.80	626.00	743.70	749.11	0.0	4.26	1261.72	1333.33	222.74	1.13
11319.000	18.00	750.10	750.80	771.00	743.70	749.40	0.0	4.85	1259.48	1334.27	243.72	0.29
11319.000	18.00	750.10	750.80	1124.00	743.70	749.87	0.0	6.23	1255.69	1335.85	281.21	0.48
11320.000	1.00	0.0	0.0	345.00	743.70	747.98	0.0	3.34	1270.51	1329.65	149.14	0.0
11320.000	1.00	0.0	0.0	626.00	743.70	749.11	0.0	4.25	1261.64	1333.36	223.40	1.14
11320.000	1.00	0.0	0.0	771.00	743.70	749.40	0.0	4.83	1259.37	1334.31	244.69	0.29
11320.000	1.00	0.0	0.0	1124.00	743.70	749.88	0.0	6.22	1255.65	1335.87	281.71	0.48
11345.000	25.00	0.0	0.0	345.00	744.30	747.69	0.0	6.96	1294.26	1313.74	49.53	0.0
* 11345.000	25.00	0.0	0.0	626.00	744.30	748.60	748.60	9.02	1271.90	1314.88	75.74	0.91
* 11345.000	25.00	0.0	0.0	771.00	744.30	749.52	749.52	7.46	1163.89	1316.44	150.26	0.91
* 11345.000	25.00	0.0	0.0	1124.00	744.30	750.11	750.11	7.78	1165.39	1333.22	239.16	0.59
* 11370.000	25.00	0.0	0.0	345.00	746.17	749.09	749.09	8.48	1294.84	1313.16	40.68	0.0
* 11370.000	25.00	0.0	0.0	626.00	746.17	750.49	750.49	8.96	1271.37	1314.90	76.48	1.40
* 11370.000	25.00	0.0	0.0	771.00	746.17	751.40	751.40	7.41	1183.51	1316.78	151.85	0.91
* 11370.000	25.00	0.0	0.0	1124.00	746.17	751.85	751.85	8.33	1169.23	1329.73	218.98	0.46

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
1139A.000	28.00	0.0	0.0	345.00	744.10	750.34	0.0	1.78	1429.15	1575.51	280.31	0.0
1139A.000	28.00	0.0	0.0	626.00	744.10	751.84	0.0	1.82	1386.52	1611.07	568.98	1.50
1139B.000	28.00	0.0	0.0	771.00	744.10	752.20	0.0	1.98	1379.99	1616.43	651.75	0.36
1139B.000	28.00	0.0	0.0	1124.00	744.10	752.74	0.0	2.41	1370.09	1624.55	785.39	0.54
11448.000	50.00	0.0	0.0	345.00	745.30	750.27	0.0	4.12	1633.01	1714.18	109.08	0.0
11448.000	50.00	0.0	0.0	626.00	745.30	751.83	0.0	2.92	1572.90	1747.32	300.68	1.56
11448.000	50.00	0.0	0.0	771.00	745.30	752.19	0.0	2.97	1559.16	1758.86	367.49	0.36
11448.000	50.00	0.0	0.0	1124.00	745.30	752.74	0.0	3.20	1549.63	1766.93	482.01	0.55
11502.000	54.00	752.00	752.30	345.00	745.30	750.27	0.0	4.13	1633.14	1714.16	108.80	0.0
11502.000	54.00	752.00	752.30	626.00	745.30	751.83	0.0	2.93	1573.20	1747.07	299.33	1.56
11502.000	54.00	752.00	752.30	771.00	745.30	753.51	0.0	1.54	1536.43	1778.10	658.07	1.68
11502.000	54.00	752.00	752.30	1124.00	745.30	754.02	0.0	1.83	1527.62	1785.57	786.08	0.51
11532.000	30.00	0.0	0.0	345.00	745.50	750.42	0.0	2.97	1480.17	1556.69	138.97	0.0
11532.000	30.00	0.0	0.0	626.00	745.50	751.83	0.0	3.11	1425.49	1578.59	294.58	1.42
11532.000	30.00	0.0	0.0	771.00	745.50	753.51	0.0	2.04	1381.59	1615.11	631.02	1.67
11532.000	30.00	0.0	0.0	1124.00	745.50	754.02	0.0	2.51	1372.29	1622.74	754.79	0.51
11602.000	70.00	0.0	0.0	345.00	746.10	750.61	0.0	3.48	1495.67	1556.02	111.39	0.0
11602.000	70.00	0.0	0.0	626.00	746.10	751.97	0.0	3.71	1443.47	1563.49	230.72	1.36
11602.000	70.00	0.0	0.0	771.00	746.10	753.54	0.0	2.52	1392.08	1606.50	501.83	1.57
11602.000	70.00	0.0	0.0	1124.00	746.10	754.07	0.0	3.03	1382.61	1614.28	618.04	0.52
11960.000	358.00	0.0	0.0	314.00	748.80	753.03	0.0	6.75	1488.48	1505.90	47.30	0.0
11960.000	358.00	0.0	0.0	574.00	748.80	754.53	754.53	7.04	1388.81	1508.70	121.38	1.50
11960.000	358.00	0.0	0.0	711.00	748.80	754.84	754.84	7.22	1382.06	1509.29	160.54	0.32
11960.000	358.00	0.0	0.0	1045.00	748.80	755.29	755.29	8.22	1372.56	1510.12	219.65	0.45
12010.000	50.00	0.0	0.0	314.00	749.00	754.04	0.0	5.19	1487.35	1507.43	62.69	0.0
12010.000	50.00	0.0	0.0	574.00	749.00	755.42	0.0	4.70	1374.07	1509.99	209.99	1.37
12010.000	50.00	0.0	0.0	711.00	749.00	755.69	0.0	5.02	1368.30	1510.49	247.68	0.27
12010.000	50.00	0.0	0.0	1045.00	749.00	756.25	0.0	5.60	1356.42	1706.45	334.65	0.56
12060.000	50.00	0.0	0.0	314.00	749.00	754.42	0.0	4.46	1600.00	1614.00	70.35	0.0
12060.000	50.00	0.0	0.0	574.00	749.00	755.47	753.13	6.28	1479.30	1614.00	125.44	1.04
12060.000	50.00	0.0	0.0	711.00	749.00	755.79	755.79	6.56	1470.56	1727.07	188.28	0.32
12060.000	50.00	0.0	0.0	1045.00	749.00	756.49	0.0	5.66	1451.58	1805.18	408.11	0.70
12092.000	32.00	754.70	753.90	314.00	749.00	754.78	0.0	4.17	1497.87	1614.00	75.73	0.0
12092.000	32.00	754.70	753.90	574.00	749.00	755.46	0.0	6.32	1479.76	1614.00	123.41	0.67
12092.000	32.00	754.70	753.90	711.00	749.00	755.91	0.0	5.99	1467.00	1745.88	223.54	0.46
12092.000	32.00	754.70	753.90	1045.00	749.00	756.49	0.0	5.67	1451.61	1805.15	407.82	0.58
12122.000	30.00	0.0	0.0	314.00	749.30	754.93	0.0	4.05	1390.72	1508.53	110.68	0.0
12122.000	30.00	0.0	0.0	574.00	749.30	756.06	0.0	3.92	1366.93	1510.61	256.91	1.12
12122.000	30.00	0.0	0.0	711.00	749.30	756.33	0.0	4.21	1360.90	1702.55	299.17	0.28
12122.000	30.00	0.0	0.0	1045.00	749.30	756.66	0.0	5.30	1353.93	1708.62	356.19	0.33
12192.000	70.00	0.0	0.0	314.00	749.50	755.30	0.0	3.68	1387.23	1508.84	130.32	0.0
12192.000	70.00	0.0	0.0	574.00	749.50	756.30	0.0	3.84	1366.04	1510.69	262.94	1.00
12192.000	70.00	0.0	0.0	711.00	749.50	756.59	0.0	4.11	1359.78	1703.53	307.67	0.29
12192.000	70.00	0.0	0.0	1045.00	749.50	757.05	0.0	4.86	1349.95	1712.08	393.10	0.46

SECNO	VLCH	ELTPD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
12550.000	358.00	0.0	0.0	239.00	752.00	756.72	0.0	3.13	1390.19	1413.20	76.31	0.0
12550.000	358.00	0.0	0.0	450.00	752.00	757.70	0.0	4.50	1388.99	1414.40	99.89	0.97
12550.000	358.00	0.0	0.0	565.00	752.00	758.11	0.0	5.11	1388.48	1414.90	110.47	0.41
12550.000	358.00	0.0	0.0	850.00	752.00	758.93	0.0	6.38	1369.24	1415.91	136.84	0.82
12600.000	50.00	0.0	0.0	239.00	752.30	756.92	0.0	3.23	1390.31	1413.07	73.91	0.0
12600.000	50.00	0.0	0.0	450.00	752.30	758.02	0.0	4.08	1388.96	1414.43	100.46	1.10
12600.000	50.00	0.0	0.0	565.00	752.30	758.50	0.0	5.01	1388.37	1415.01	112.87	0.48
12600.000	50.00	0.0	0.0	850.00	752.30	759.47	0.0	6.03	1358.54	1426.95	150.43	0.97
12650.000	50.00	0.0	0.0	239.00	752.70	757.03	0.0	4.52	1400.00	1414.00	52.83	0.0
12650.000	50.00	0.0	0.0	450.00	752.70	758.12	0.0	6.61	1400.00	1414.00	68.10	1.09
12650.000	50.00	0.0	0.0	565.00	752.70	758.56	0.0	7.60	1400.00	1414.00	74.33	0.44
12650.000	50.00	0.0	0.0	850.00	752.70	759.34	0.0	9.98	1400.00	1414.00	85.13	0.77
12671.000	21.00	760.80	758.90	239.00	752.70	757.03	0.0	4.52	1400.00	1414.00	52.84	0.0
12671.000	21.00	760.80	758.90	450.00	752.70	758.12	0.0	6.61	1400.00	1414.00	68.11	1.09
12671.000	21.00	760.80	758.90	565.00	752.70	758.98	0.0	7.05	1400.00	1414.00	80.14	0.66
12671.000	21.00	760.80	758.90	850.00	752.70	760.20	0.0	8.73	1400.00	1414.00	97.36	1.22
12701.000	30.00	0.0	0.0	239.00	752.80	757.33	0.0	3.32	1390.42	1412.96	71.90	0.0
12701.000	30.00	0.0	0.0	450.00	752.80	758.76	0.0	4.22	1388.66	1414.72	106.68	1.43
12701.000	30.00	0.0	0.0	565.00	752.80	759.70	0.0	4.26	1370.37	1415.88	135.66	0.94
12701.000	30.00	0.0	0.0	850.00	752.80	761.44	0.0	3.75	1297.90	1509.41	365.02	1.74
12771.000	70.00	0.0	0.0	239.00	753.20	757.65	0.0	3.41	1390.52	1412.86	70.14	0.0
12771.000	70.00	0.0	0.0	450.00	753.20	759.14	0.0	4.25	1388.70	1414.69	105.96	1.48
12771.000	70.00	0.0	0.0	565.00	753.20	760.02	0.0	4.35	1374.06	1415.77	132.00	0.88
12771.000	70.00	0.0	0.0	850.00	753.20	761.59	0.0	4.15	1305.04	1502.37	313.00	1.57
12980.000	209.00	0.0	0.0	147.00	756.20	759.10	0.0	6.07	1483.86	1497.24	24.22	0.0
12980.000	209.00	0.0	0.0	293.00	756.20	760.58	0.0	5.86	1471.70	1518.12	62.04	1.48
12980.000	209.00	0.0	0.0	377.00	756.20	761.26	0.0	5.42	1463.07	1530.66	100.57	0.67
12980.000	209.00	0.0	0.0	593.00	756.20	762.37	0.0	5.09	1448.81	1551.37	195.59	1.12
13030.000	50.00	0.0	0.0	147.00	756.30	760.18	0.0	3.74	1478.10	1508.83	42.70	0.0
13030.000	50.00	0.0	0.0	293.00	756.30	761.32	0.0	4.29	1463.88	1529.92	97.91	1.13
13030.000	50.00	0.0	0.0	377.00	756.30	761.77	0.0	4.45	1457.77	1538.36	131.32	0.45
13030.000	50.00	0.0	0.0	593.00	756.30	762.70	0.0	4.63	1445.96	1555.51	219.28	0.93
13080.000	50.00	0.0	0.0	147.00	756.20	760.45	0.0	3.27	1500.00	1514.00	44.97	0.0
13080.000	50.00	0.0	0.0	293.00	756.20	761.50	0.0	4.92	1500.00	1514.00	59.59	1.04
13080.000	50.00	0.0	0.0	377.00	756.20	761.87	0.0	5.81	1500.00	1514.00	64.85	0.37
13080.000	50.00	0.0	0.0	593.00	756.20	762.49	0.0	8.06	1500.00	1514.00	73.60	0.62
13101.000	21.00	764.40	753.80	147.00	756.20	760.45	0.0	3.27	1500.00	1514.00	44.96	0.0
13101.000	21.00	764.40	753.80	293.00	756.20	761.50	0.0	4.92	1500.00	1514.00	59.59	1.04
13101.000	21.00	764.40	753.80	377.00	756.20	761.87	0.0	5.81	1500.00	1514.00	64.84	0.38
13101.000	21.00	764.40	753.80	593.00	756.20	762.49	0.0	8.06	1500.00	1514.00	73.53	0.62
13131.000	30.00	0.0	0.0	147.00	756.50	760.56	0.0	3.43	1475.73	1512.18	48.78	0.0
13131.000	30.00	0.0	0.0	293.00	756.50	761.87	0.0	3.63	1459.11	1536.41	123.05	1.30
13131.000	30.00	0.0	0.0	377.00	756.50	762.43	0.0	3.60	1451.89	1546.89	171.73	0.56
13131.000	30.00	0.0	0.0	593.00	756.50	763.61	0.0	3.48	1435.87	1568.72	305.21	1.18

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
13201.000	70.00	0.0	0.0	147.00	756.70	760.96	0.0	3.13	1473.36	1515.72	56.29	0.0
13201.000	70.00	0.0	0.0	293.00	756.70	762.14	0.0	3.51	1458.21	1537.73	128.60	1.19
13201.000	70.00	0.0	0.0	377.00	756.70	762.65	0.0	3.57	1451.65	1547.24	173.53	0.51
13201.000	70.00	0.0	0.0	593.00	756.70	763.77	0.0	3.54	1437.42	1567.91	299.54	1.11
* 13490.000	289.00	0.0	0.0	103.00	765.50	768.03	768.03	7.73	1407.90	1415.22	13.33	0.0
* 13490.000	289.00	0.0	0.0	214.00	765.50	769.25	769.25	9.15	1407.34	1416.49	23.40	1.22
* 13490.000	289.00	0.0	0.0	281.00	765.50	769.79	769.79	9.84	1407.09	1417.05	28.55	0.54
* 13490.000	289.00	0.0	0.0	457.00	765.50	771.76	771.76	7.50	1397.66	1422.60	93.59	1.97
13540.000	50.00	0.0	0.0	103.00	765.60	769.78	0.0	3.74	1407.14	1416.95	27.53	0.0
13540.000	50.00	0.0	0.0	214.00	765.60	771.28	0.0	4.65	1402.12	1421.55	56.09	1.50
13540.000	50.00	0.0	0.0	281.00	765.60	771.94	0.0	4.41	1394.61	1422.75	100.64	0.65
13540.000	50.00	0.0	0.0	457.00	765.60	772.81	0.0	4.07	1361.29	1424.34	211.88	0.87
13590.000	50.00	0.0	0.0	103.00	765.40	770.05	0.0	1.83	1900.00	1914.00	56.28	0.0
13590.000	50.00	0.0	0.0	214.00	765.40	771.63	0.0	2.73	1900.00	1914.00	78.47	1.58
13590.000	50.00	0.0	0.0	281.00	765.40	772.16	0.0	3.27	1900.00	1914.00	85.96	0.54
13590.000	50.00	0.0	0.0	457.00	765.40	772.89	0.0	4.24	1788.62	1953.39	165.50	0.73
13611.000	21.00	772.20	770.50	103.00	765.40	770.05	0.0	1.83	1900.00	1914.00	56.33	0.0
13611.000	21.00	772.20	770.50	214.00	765.40	771.89	0.0	2.61	1900.00	1914.00	82.13	1.84
13611.000	21.00	772.20	770.50	281.00	765.40	772.46	0.0	3.09	1815.31	1928.58	102.64	0.56
13611.000	21.00	772.20	770.50	457.00	765.40	772.94	0.0	4.13	1767.06	1956.44	174.38	0.48
13641.000	30.00	0.0	0.0	103.00	765.50	770.01	0.0	3.35	1406.96	1419.38	30.82	0.0
13641.000	30.00	0.0	0.0	214.00	765.50	771.93	0.0	3.20	1391.43	1422.90	108.62	1.92
13641.000	30.00	0.0	0.0	281.00	765.50	772.59	0.0	2.71	1365.81	1424.12	194.01	0.66
13641.000	30.00	0.0	0.0	457.00	765.50	773.18	0.0	3.02	1343.15	1425.20	291.34	0.59
13711.000	70.00	0.0	0.0	103.00	765.70	770.46	0.0	3.08	1405.91	1419.85	33.92	0.0
13711.000	70.00	0.0	0.0	214.00	765.70	772.17	0.0	3.12	1389.70	1422.98	113.26	1.71
13711.000	70.00	0.0	0.0	281.00	765.70	772.73	0.0	2.81	1367.90	1424.02	186.00	0.56
13711.000	70.00	0.0	0.0	457.00	765.70	773.33	0.0	3.11	1345.13	1425.11	282.09	0.60
14434.000	723.00	0.0	0.0	88.00	773.60	776.64	0.0	4.67	1608.75	1617.58	18.86	0.0
14434.000	723.00	0.0	0.0	186.00	773.60	777.04	776.87	8.25	1608.45	1617.93	22.54	0.40
* 14434.000	723.00	0.0	0.0	244.00	773.60	777.97	777.97	6.54	1378.34	1618.74	52.44	0.93
* 14434.000	723.00	0.0	0.0	401.00	773.60	778.54	778.54	6.92	1363.98	1619.25	95.05	0.57
14484.000	50.00	0.0	0.0	88.00	774.90	777.67	0.0	5.29	1608.94	1617.35	16.62	0.0
14484.000	50.00	0.0	0.0	186.00	774.90	779.17	0.0	5.35	1380.85	1618.65	46.88	1.49
* 14484.000	50.00	0.0	0.0	244.00	774.90	779.27	779.27	6.53	1378.32	1618.74	52.48	0.10
14484.000	50.00	0.0	0.0	401.00	774.90	779.82	779.80	7.06	1364.65	1619.22	92.67	0.55
* 14534.000	50.00	0.0	0.0	88.00	776.40	778.76	778.76	7.74	1596.77	1604.06	12.15	0.0
* 14534.000	50.00	0.0	0.0	186.00	776.40	779.99	779.99	9.50	1595.57	1605.17	22.50	1.22
* 14534.000	50.00	0.0	0.0	244.00	776.40	780.57	780.57	10.15	1595.00	1605.70	28.43	0.56
* 14534.000	50.00	0.0	0.0	401.00	776.40	782.35	782.35	6.50	1424.78	1616.68	136.28	1.78
14566.000	32.00	781.60	781.00	88.00	776.40	778.78	0.0	7.66	1596.75	1604.07	12.29	0.0
14566.000	32.00	781.60	781.00	186.00	776.40	781.34	0.0	6.10	1585.00	1606.40	37.24	2.55
14566.000	32.00	781.60	781.00	244.00	776.40	781.09	0.0	8.62	1594.50	1606.17	34.19	0.25
14566.000	32.00	781.60	781.00	401.00	776.40	782.45	0.0	5.80	1413.79	1619.70	158.13	1.37

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRINS	VCH	SSTA	ENDST	AREA	DIFWSP
14596.000	30.00	0.0	0.0	88.00	777.00	779.62	0.0	5.74	1609.06	1617.21	15.34	0.0
14596.000	30.00	0.0	0.0	186.00	777.00	781.80	0.0	3.59	1367.58	1619.12	82.65	2.18
14596.000	30.00	0.0	0.0	244.00	777.00	782.18	781.37	3.49	1358.00	1619.45	118.16	0.37
14596.000	30.00	0.0	0.0	401.00	777.00	782.67	0.0	3.88	1345.70	1619.89	188.13	0.49
14666.000	70.00	0.0	0.0	88.00	778.60	781.57	0.0	4.80	1602.79	1617.52	18.33	0.0
14666.000	70.00	0.0	0.0	186.00	778.60	782.28	781.87	7.46	1395.51	1618.14	25.73	0.71
14666.000	70.00	0.0	0.0	244.00	778.60	782.96	782.95	6.56	1376.49	1618.74	52.09	0.68
14666.000	70.00	0.0	0.0	401.00	778.60	783.55	783.55	6.87	1363.76	1619.25	95.85	0.59

SUMMARY OF ERRORS

CAUTION SECNO=11275.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=11275.000 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO=11345.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=11345.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=11345.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=11345.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=11345.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=11345.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=11345.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=11345.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=11370.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=11370.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=11370.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=11370.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=11370.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=11370.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=11370.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=11370.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=11370.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=11370.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=11370.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=11370.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=11960.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=11960.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=11960.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=11960.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=11960.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=11960.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=11960.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=11960.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=12060.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=12060.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY

CAUTION SECNO=13490.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=13490.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=13490.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=13490.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=13490.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY

Handwritten notes:
11275
11345
11370
11960
12060
13490

CAUTION	SECNO=13490.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=13490.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=13490.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=13490.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=13490.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=13490.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=13490.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=14434.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=14434.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=14434.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=14434.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=14434.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=14434.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=14484.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=14484.000	PROFILE= 3	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=14534.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=14534.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=14534.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=14534.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=14534.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=14534.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=14534.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=14534.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=14534.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=14534.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=14534.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=14534.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=14666.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=14666.000	PROFILE= 3	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=14666.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=14666.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=14666.000	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		
		10F	2C	0.2C
11250.000	0.	-1.3	-0.3	0.5
11275.000	25.	-1.2	-0.3	0.6
11300.000	50.	-1.4	-0.3	0.4
11301.000	51.	-1.4	-0.3	0.4
11319.000	69.	-1.4	-0.3	0.5
11320.000	70.	-1.4	-0.3	0.5
11345.000	95.	-1.8	-0.9	0.6
11370.000	120.	-2.3	-0.9	0.5
11398.000	148.	-1.9	-0.4	0.5
11448.000	198.	-1.9	-0.4	0.5
11502.000	252.	-3.2	-1.7	0.5
11532.000	282.	-3.1	-1.7	0.5
11602.000	352.	-2.9	-1.6	0.5
11960.000	710.	-1.8	-0.3	0.4
12010.000	760.	-1.6	-0.3	0.6
12060.000	810.	-1.4	-0.3	0.7
12092.000	842.	-1.1	-0.5	0.6
12122.000	872.	-1.4	-0.3	0.3
12192.000	942.	-1.3	-0.3	0.5
12550.000	1300.	-1.4	-0.4	0.8
12600.000	1350.	-1.6	-0.5	1.0
12650.000	1400.	-1.9	-0.4	0.8
12671.000	1421.	-1.9	-0.9	1.2
12701.000	1451.	-2.4	-0.9	1.7
12771.000	1521.	-2.4	-0.9	1.6
12980.000	1730.	-2.2	-0.7	1.1
13030.000	1780.	-1.6	-0.5	0.9
13080.000	1830.	-1.4	-0.4	0.6
13101.000	1851.	-1.4	-0.4	0.6
13131.000	1881.	-1.9	-0.6	1.2
13201.000	1951.	-1.7	-0.5	1.1
13490.000	2240.	-1.8	-0.5	2.0
13540.000	2290.	-2.2	-0.7	0.9
13590.000	2340.	-2.1	-0.5	0.7
13611.000	2361.	-2.4	-0.6	0.5
13641.000	2391.	-2.6	-0.7	0.6
13711.000	2461.	-2.3	-0.6	0.6
14434.000	3184.	-1.3	-0.9	0.6
14484.000	3234.	-1.6	-0.1	0.6
14534.000	3284.	-1.8	-0.6	1.8
14566.000	3316.	-2.3	0.2	1.4
14596.000	3346.	-2.6	-0.4	0.5
14666.000	3416.	-1.4	-0.7	0.6

WEIGHTED AVG FOR REACH		-1.9	-0.6	0.8

FHF FOR THE REACH = 0.20 WITH 75.9% OF THE REACH WITHIN 0.5 FEET ZONE FOR THE REACH = A 4

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION 10C	DATA 1C	DIFF.	WTD. AVG.	FHF	PERCENT WITHIN
1	0.					SEC. 11250.000	
	100.	747.6	748.7	-1.1	-1.1	010	100.
	25.					SEC. 11275.000	
	50.					SEC. 11300.000	
	51.					SEC. 11301.000	
	69.					SEC. 11319.000	
	70.					SEC. 11320.000	
	95.					SEC. 11345.000	
	120.					SEC. 11370.000	
	148.					SEC. 11398.000	
2	198.					SEC. 11448.000	
	200.	750.3	752.2	-1.9	-1.5	015	100.
	252.					SEC. 11502.000	
3	282.					SEC. 11532.000	
	300.	750.4	753.5	-3.1	-2.0	020	67.
4	352.					SEC. 11602.000	
	400.	750.7	753.6	-2.9	-2.3	025	75.
5	500.	751.3	753.9	-2.6	-2.3	025	80.
6	600.	751.9	754.3	-2.3	-2.3	025	83.
7	700.	752.6	754.6	-2.0	-2.3	025	86.
	710.					SEC. 11960.000	
8	760.					SEC. 12010.000	
	800.	754.2	755.7	-1.5	-2.2	020	88.
	810.					SEC. 12060.000	
	842.					SEC. 12092.000	
9	872.					SEC. 12122.000	
	900.	755.0	756.4	-1.4	-2.1	020	89.
	942.					SEC. 12192.000	
10	1000.	755.3	756.6	-1.3	-2.0	020	90.
11	1100.	755.7	757.0	-1.3	-2.0	020	36.
12	1200.	756.1	757.5	-1.3	-1.9	020	33.
	1300.					SEC. 12550.000	
13	1300.	756.5	757.9	-1.4	-1.9	020	46.
	1350.					SEC. 12600.000	
14	1400.	756.9	758.3	-1.5	-1.8	020	57.
	1400.					SEC. 12650.000	
	1421.					SEC. 12671.000	
	1451.					SEC. 12701.000	
15	1500.	757.4	759.8	-2.4	-1.9	020	47.
	1521.					SEC. 12771.000	
16	1600.	757.9	760.2	-2.3	-1.9	020	44.
17	1700.	758.5	760.8	-2.2	-1.9	020	47.
	1730.					SEC. 12980.000	
	1780.					SEC. 13030.000	
18	1800.	760.2	761.8	-1.6	-1.9	020	50.
	1830.					SEC. 13080.000	
	1851.					SEC. 13101.000	
	1881.					SEC. 13131.000	
19	1900.	760.6	762.5	-1.8	-1.9	020	53.
	1951.					SEC. 13201.000	
20	2000.	761.4	763.2	-1.8	-1.9	020	55.
21	2100.	763.4	765.1	-1.7	-1.9	020	57.
22	2200.	765.2	767.6	-1.7	-1.9	020	64.
	2240.					SEC. 13490.000	
	2290.					SEC. 13540.000	

23	2300.	769.8	772.0	-2.2	-1.9	020	61.
	2340.					SEC. 13590.000	
	2361.					SEC. 13611.000	
	2391.					SEC. 13641.000	
24	2400.	770.0	772.6	-2.6	-1.9	020	58.
	2461.					SEC. 13711.000	
25	2500.	770.4	772.8	-2.4	-1.9	020	60.
26	2600.	771.2	773.4	-2.2	-1.9	020	62.
27	2700.	772.1	774.1	-2.0	-1.9	020	63.
28	2800.	772.9	774.8	-1.9	-1.9	020	64.
29	2900.	773.8	775.5	-1.8	-1.9	020	66.
30	3000.	774.6	776.3	-1.6	-1.9	020	67.
31	3100.	775.5	777.0	-1.5	-1.9	020	68.
	3184.					SEC. 14434.000	
32	3200.	776.4	777.9	-1.4	-1.9	020	69.
	3234.					SEC. 14484.000	
	3284.					SEC. 14534.000	
33	3300.	778.8	780.7	-1.9	-1.9	020	70.
	3316.					SEC. 14566.000	
	3346.					SEC. 14596.000	
34	3400.	780.4	782.5	-2.1	-1.9	020	71.
	3416.					SEC. 14666.000	

THIS REACH CAN BE SUBDIVIDED BY INC NO. TO MEET FIA REQUIREMENTS
 INPUT 20N WHERE N IS THE NUMBER OF REACHES AND THEN INPUT THE END
 OF EACH REACH BY INC NO. FOR EXAMPLE 202 10 34
 A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

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

EJ