
 HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977

ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

T1 LUMBERTON NC IVEY BRANCH
 T2 FLOOD INSURANCE STUDY
 T3 10-YEAR G DIKE AT CROSS SECTION 650 REMOVED JUNE 1980

J1 TCHECK INQ WINV IDIR STRT METRIC HVINS G WSEL FQ
 0. 2. 0. 0. 0.001500 0. 0. 0. 125.000 0.

J2 NEBO- TPCOT PRFVS XSECV XSECH FN ALLCC IEW CHNIM ITRACE
 1.000 0. -1.000 5.000 500.000 0. 0. 0. 0. 0.

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000 1.000 50.000 51.000 42.000 39.000 0. 38.000 21.000 22.000

53.000 54.000 4.000 0. 38.000 1.000 58.000 33.000 50.000 40.000

41.000 25.000 0. 38.000 1.000 43.000 13.000 55.000 14.000 26.000

15.000 56.000 8.000 35.000 60.000 59.000 0. 38.000 1.000 7.000

13.000 17.000 18.000 34.000 21.000 22.000 53.000 54.000 4.000 0.

VC 1.000 0.000 0.000 0.100 0.300 0. 0. 0. 0. 0.
 CT 5.000 1620.000 2180.000 2420.000 3630.000 2430.000 0. 0. 0. 0.
 ET 0. 0. 0. 0. 0. 7.100 1090.000 1370.000 0. 0.

X1 650.000 19.000 1190.000 1210.000 0. 0. 0. 0. 0. 0.
 XR 135.000 0. 129.000 230.000 128.000 555.000 126.000 585.000 124.000 780.000
 GR 122.000 950.000 120.900 1085.000 119.200 1140.000 119.900 1190.000 120.300 1192.000
 SR 114.900 1200.000 120.400 1208.000 121.800 1210.000 121.800 1250.000 122.400 1600.000
 CR 124.000 1700.000 125.000 1775.000 126.000 1920.000 126.000 2040.000 0. 0.
 RT 0. 0. 0. 0. 0. 100.200 0. 0. 0. 0.

X1 1641.000 21.000 1034.000 1069.000 990.000 990.000 990.000 0. 0. 0.
 XR 137.300 0. 132.000 125.000 133.900 450.000 132.000 665.000 130.000 750.000
 GR 128.000 825.000 128.100 900.000 126.700 950.000 125.200 980.000 132.700 1060.000
 SR 124.100 1027.000 123.600 1034.000 120.300 1039.000 117.800 1050.000 120.400 1061.000
 CR 125.700 1066.000 123.900 1100.000 123.800 1150.000 126.600 1335.000 130.000 1440.000
 RT 134.000 1900.000 0. 0. 0. 0. 0. 0. 0. 0.

X1 1710.000 0. 0. 0. 70.000 70.000 70.000 0. 0. 0.
 CR 1.250 14500 3.000 650.000 11.000 1.000 80.000 0. 0. 0.

X1 1770.000 19.000 1034.000 1069.000 60.000 60.000 60.000 0. 0. 0.
 X2 0. 0. 1.000 125.000 129.000 0. 0. 0. 0. 0.
 GR 130.000 0. 132.000 100.000 134.000 310.000 134.000 605.000 132.000 690.000

PRINTED IN U.S.A.

HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977

ERROR CORR - 01.02

MODIFICATION - 50,51,52,53

T1 LUMBERTON NC IVEY BRANCH
 T2 FLOOD INSURANCE STUDY
 T3 50-YEAR W DIKE AT CROSS SECTION 650 REMOVED JUNE 1980

| J1 | ICHECK | INQ | WINV | IDIR | STRT | METRIC | HVINS | Q | WSEL | FG |
|----|--------|-----|------|------|----------|--------|-------|----|---------|----|
| | 0. | 3. | 0. | 0. | 0.001500 | 0. | 0. | 0. | 125.000 | 0. |

| J2 | NRCS | IPLT | PRFVS | XSECV | XSECH | FN | ALLDC | IBW | CHNIM | ITRACE |
|----|-------|------|--------|-------|---------|----|-------|-----|-------|--------|
| | 2.000 | 0. | -1.000 | 5.000 | 500.000 | 0. | 0. | 0. | 0. | 0. |

PRINTED IN U.S.A.

HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977
ERROR CORR - 01,00
MODIFICATION - 50,51,52,53

T1 LUMBERTON NC IVEY BRANCH
T2 FLOOD INSURANCE STUDY
T3 100-YEAR 2 DIKE AT CROSS SECTION 650 REMOVED JUNE 1980

J1 TCHECK IRO NINV ICIR STRT METRIC HVINS G WSEL FG
0. 4. 0. 0. 0.001500 0. 0. 0. 125.000 0.

J2 PPROF IPLOT PPIVS XSECV XSECH FN ALLEC IBW CHNIM ITRACE
3.000 7. -1.000 5.000 500.000 0. 0. 0. 0. 0.

PRINTED IN U.S.A.

 HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977

ERROR CORR - 01.02
 MODIFICATION - 50.51,52,53

T1 LUMBERTON NC TIVEY BRANCH
 T2 FLOOD INSURANCE STUDY
 T3 500-YEAR Q DIKE AT CROSS SECTION 650 REMOVED JUNE 1980

| J1 | TCHECK | INC | MINV | IDIR | STRT | METRIC | FVINS | G | WSEL | FQ |
|----|--------|-----|------|------|----------|--------|-------|----|---------|----|
| | 0. | 5. | 0. | 0. | 0.001500 | 0. | 0. | 0. | 125.000 | 0. |

| J2 | NPROF | TPLDT | PRFVS | XSECV | XSECH | FN | ALLCC | IBW | CHNTH | ITRACE |
|----|--------|-------|--------|-------|---------|----|-------|-----|-------|--------|
| | 15.000 | 0. | -1.000 | 5.000 | 500.000 | 0. | 0. | 0. | 0. | 0. |

PRINTED IN U.S.A.

MEC2 RELEASE DATED NOV 76 UPDATED AUG 1977
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

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

10-YEAR 3 DIKS AT CROSS
 SUMMARY PRINTOUT

| SECTNO | OWOFL | DIFWSP | DIFWSY | ELMIN | XLCH |
|----------|--------|--------|--------|--------|--------|
| 650.000 | 123.47 | 0. | 0. | 116.90 | 0. |
| 650.000 | 123.08 | 0.01 | 0. | 116.90 | 0. |
| 650.000 | 124.04 | 0.16 | 0. | 116.90 | 0. |
| 650.000 | 124.71 | 0.67 | 0. | 116.90 | 0. |
| 1640.000 | 125.65 | 0. | 2.19 | 117.80 | 990.00 |
| 1640.000 | 126.12 | 0.47 | 2.24 | 117.80 | 990.00 |
| 1640.000 | 126.70 | 0.16 | 2.23 | 117.80 | 990.00 |
| 1640.000 | 127.02 | 0.71 | 2.31 | 117.80 | 990.00 |
| 1710.000 | 126.11 | 0. | 0.46 | 117.80 | 70.00 |
| 1710.000 | 126.04 | 0.54 | 0.52 | 117.80 | 70.00 |
| 1710.000 | 126.97 | 0.19 | 0.53 | 117.80 | 70.00 |
| 1710.000 | 127.00 | 0.75 | 0.58 | 117.80 | 70.00 |
| 1770.000 | 126.47 | 0. | 3.38 | 118.30 | 60.00 |
| 1770.000 | 129.77 | 0.26 | 3.08 | 118.30 | 60.00 |
| 1770.000 | 129.79 | 0.10 | 2.99 | 118.30 | 60.00 |
| 1770.000 | 130.22 | 0.74 | 2.02 | 118.30 | 60.00 |
| 1840.000 | 128.48 | 0. | 0.01 | 118.30 | 70.00 |
| 1840.000 | 128.75 | 0.26 | 0.02 | 118.30 | 70.00 |
| 1840.000 | 129.85 | 0.10 | 0.02 | 118.30 | 70.00 |
| 1840.000 | 130.00 | 0.41 | 0.04 | 118.30 | 70.00 |
| 2300.000 | 126.05 | 0. | 0.07 | 119.20 | 400.00 |
| 2300.000 | 126.84 | 0.25 | 0.10 | 119.20 | 400.00 |
| 2300.000 | 127.52 | 0.12 | 0.11 | 119.20 | 400.00 |
| 2300.000 | 130.48 | 0.48 | 0.19 | 119.20 | 400.00 |
| 2300.000 | 128.47 | 0. | 0.08 | 119.20 | 400.00 |
| 2300.000 | 128.00 | 0.34 | 0.12 | 119.20 | 400.00 |
| 2300.000 | 129.09 | 0.17 | 0.13 | 119.20 | 400.00 |
| 2300.000 | 133.05 | 0.50 | 0.21 | 119.20 | 400.00 |

PRINTED IN U.S.A.

10-YEAR O DIKE AT CROSS
SUMMARY PRINTOUT

127.800 950.000 125.100 1000.000 124.200 1034.000

| SECNO | STCHL | STCHR | SSTA | ENDST | TOPWID |
|----------|---------|---------|--------|---------|---------|
| 650.000 | 1190.00 | 1210.00 | 825.40 | 1666.57 | 841.11 |
| 650.000 | 1190.00 | 1210.00 | 790.24 | 1692.47 | 902.23 |
| 650.000 | 1190.00 | 1210.00 | 775.86 | 1703.18 | 927.32 |
| 650.000 | 1190.00 | 1210.00 | 710.70 | 1753.31 | 1042.51 |
| 1540.000 | 1034.00 | 1066.00 | 970.95 | 1305.79 | 379.66 |
| 1640.000 | 1034.00 | 1066.00 | 961.58 | 1328.18 | 343.76 |
| 1640.000 | 1034.00 | 1066.00 | 957.97 | 1342.91 | 353.00 |
| 1640.000 | 1034.00 | 1066.00 | 938.75 | 1361.64 | 394.51 |
| 1710.000 | 1034.00 | 1066.00 | 951.70 | 1338.02 | 343.45 |
| 1710.000 | 1034.00 | 1066.00 | 950.99 | 1352.07 | 370.88 |
| 1710.000 | 1034.00 | 1066.00 | 944.96 | 1357.08 | 382.86 |
| 1710.000 | 1034.00 | 1066.00 | 917.71 | 1377.11 | 433.96 |
| 1770.000 | 1034.00 | 1069.00 | 858.07 | 1416.09 | 532.02 |
| 1770.000 | 1034.00 | 1069.00 | 830.54 | 1417.94 | 587.40 |
| 1770.000 | 1034.00 | 1069.00 | 819.55 | 1418.88 | 599.14 |
| 1770.000 | 1034.00 | 1069.00 | 0. | 1630.05 | 872.30 |
| 1840.000 | 1034.00 | 1069.00 | 857.44 | 1418.12 | 558.69 |
| 1840.000 | 1034.00 | 1069.00 | 828.30 | 1418.09 | 589.79 |
| 1840.000 | 1034.00 | 1069.00 | 819.93 | 1418.86 | 601.92 |
| 1840.000 | 1034.00 | 1069.00 | 0. | 1674.12 | 920.53 |
| 2300.000 | 832.00 | 862.00 | 454.41 | 1820.00 | 1365.59 |
| 2300.000 | 832.00 | 862.00 | 451.55 | 1820.00 | 1368.45 |
| 2300.000 | 832.00 | 862.00 | 450.36 | 1820.00 | 1369.02 |
| 2300.000 | 832.00 | 862.00 | 0. | 1820.00 | 1439.23 |
| 2920.000 | 614.00 | 614.00 | 277.83 | 1200.00 | 418.69 |
| 2920.000 | 614.00 | 614.00 | 266.09 | 1200.00 | 717.75 |
| 2920.000 | 614.00 | 614.00 | 231.90 | 1200.00 | 790.25 |
| 2920.000 | 614.00 | 614.00 | 0. | 1200.00 | 1039.24 |

11-11-68 100.000 129.100 900.000 127.800 950.000 125.100 1000.000 124.200 1034.000
 11-11-68 1150.000 125.200 1260.000

10-YEAR 0 DIKE AT CROSS
 SUMMARY PRINTOUT

| SECNO | CWSFL | KRATIO | K*CHSL | DIFWSP | ELTRD | ELLC | AREA |
|----------|--------|--------|--------|--------|--------|--------|---------|
| 650.000 | 123.47 | 0. | 0. | 0. | 0. | 0. | 1415.66 |
| 650.000 | 123.38 | 0. | 0. | 0.41 | 0. | 0. | 1779.81 |
| 650.000 | 124.04 | 0. | 0. | 0.16 | 0. | 0. | 1925.78 |
| 650.000 | 124.71 | 0. | 0. | 0.57 | 0. | 0. | 2584.07 |
| 1640.000 | 125.55 | 0.55 | 0.91 | 0. | 0. | 0. | 509.02 |
| 1640.000 | 126.12 | 0.62 | 0.91 | 0.47 | 0. | 0. | 560.95 |
| 1640.000 | 126.70 | 0.62 | 0.91 | 0.18 | 0. | 0. | 722.77 |
| 1640.000 | 127.02 | 0.49 | 0.91 | 0.71 | 0. | 0. | 989.47 |
| 1710.000 | 126.11 | 1.28 | 0. | 0. | 0. | 0. | 658.91 |
| 1710.000 | 126.54 | 1.31 | 0. | 0.55 | 0. | 0. | 850.11 |
| 1710.000 | 126.83 | 1.31 | 0. | 0.19 | 0. | 0. | 921.87 |
| 1710.000 | 127.59 | 1.30 | 0. | 0.76 | 0. | 0. | 1233.52 |
| 1770.000 | 129.47 | 4.05 | 8.33 | 0. | 129.00 | 125.50 | 2197.59 |
| 1770.000 | 129.77 | 3.33 | 8.33 | 0.26 | 129.00 | 125.50 | 2339.47 |
| 1770.000 | 129.82 | 3.14 | 8.33 | 0.10 | 129.00 | 125.50 | 2398.17 |
| 1770.000 | 130.22 | 2.52 | 8.33 | 0.39 | 129.00 | 125.50 | 2667.34 |
| 1840.000 | 129.48 | 1.00 | 0. | 0. | 0. | 0. | 2200.76 |
| 1840.000 | 129.75 | 1.01 | 0. | 0.20 | 0. | 0. | 2351.35 |
| 1840.000 | 129.45 | 1.01 | 0. | 0.10 | 0. | 0. | 2412.33 |
| 1840.000 | 130.26 | 1.01 | 0. | 0.41 | 0. | 0. | 2704.61 |
| 2300.000 | 129.55 | 1.48 | 1.96 | 0. | 0. | 0. | 4198.89 |
| 2300.000 | 129.84 | 1.54 | 1.96 | 0.29 | 0. | 0. | 4589.37 |
| 2300.000 | 129.96 | 1.57 | 1.96 | 0.12 | 0. | 0. | 4749.92 |
| 2300.000 | 130.45 | 1.67 | 1.96 | 0.48 | 0. | 0. | 5429.44 |
| 2900.000 | 129.47 | 0.20 | 2.58 | 0. | 0. | 0. | 1165.61 |
| 2900.000 | 129.50 | 0.30 | 2.58 | 0.33 | 0. | 0. | 1356.33 |
| 2900.000 | 129.59 | 0.30 | 2.58 | 0.13 | 0. | 0. | 1455.77 |
| 2900.000 | 130.08 | 0.33 | 2.58 | 0.50 | 0. | 0. | 1913.25 |

10-YEAR D' DIKE AT CROS
SUMMARY PRINTOUT

129.100 900.000 127.800 950.000 125.100 1000.000 124.200 1034.000
 129.100 900.000 127.800 950.000 125.100 1150.000 125.200 1200.000

| SECHO | CWSL | G | QLOB | VLOB | QCH | VCH | QROB | VROB | DEPTH | QLOBX | QCHX | QROBX |
|----------|--------|---------|---------|------|---------|------|---------|------|-------|-------|-------|-------|
| 650.000 | 123.47 | 1620.00 | 908.59 | 1.22 | 260.48 | 2.93 | 450.93 | 0.78 | 6.57 | 56.09 | 16.08 | 27.84 |
| 650.000 | 123.68 | 2180.00 | 1169.61 | 1.29 | 302.38 | 3.11 | 708.01 | 0.91 | 6.98 | 53.65 | 13.87 | 32.48 |
| 650.000 | 124.04 | 2430.00 | 1285.59 | 1.32 | 319.74 | 3.18 | 824.67 | 0.97 | 7.14 | 52.91 | 13.16 | 33.94 |
| 650.000 | 124.71 | 3630.00 | 1843.48 | 1.45 | 393.13 | 3.45 | 1393.39 | 1.16 | 7.81 | 50.78 | 10.83 | 38.39 |
| 1640.000 | 125.85 | 1620.00 | 47.13 | 1.55 | 1146.96 | 6.33 | 425.51 | 1.43 | 7.85 | 2.91 | 70.80 | 26.29 |
| 1640.000 | 126.12 | 2180.00 | 79.69 | 1.73 | 1375.24 | 7.01 | 725.07 | 1.73 | 8.32 | 3.66 | 63.08 | 33.26 |
| 1640.000 | 126.30 | 2430.00 | 95.68 | 1.78 | 1461.47 | 7.24 | 872.85 | 1.86 | 8.50 | 3.94 | 60.14 | 35.92 |
| 1640.000 | 127.02 | 3630.00 | 189.09 | 2.05 | 1836.16 | 8.17 | 1604.75 | 2.35 | 9.22 | 5.21 | 50.58 | 44.21 |
| 1710.000 | 126.11 | 1620.00 | 59.07 | 1.29 | 1023.61 | 5.22 | 537.32 | 1.29 | 8.31 | 3.65 | 63.19 | 33.17 |
| 1710.000 | 126.64 | 2180.00 | 96.12 | 1.39 | 1201.24 | 5.64 | 860.64 | 1.55 | 8.84 | 4.50 | 55.10 | 40.40 |
| 1710.000 | 126.83 | 2430.00 | 118.13 | 1.45 | 1279.42 | 5.84 | 1032.45 | 1.66 | 9.03 | 4.86 | 52.65 | 42.49 |
| 1710.000 | 127.55 | 3630.00 | 233.81 | 1.68 | 1619.75 | 6.55 | 1776.40 | 2.09 | 9.79 | 6.44 | 44.62 | 48.94 |
| 1770.000 | 129.47 | 1620.00 | 186.97 | 0.50 | 439.10 | 1.55 | 991.93 | 0.64 | 11.17 | 11.66 | 27.10 | 61.23 |
| 1770.000 | 129.73 | 2180.00 | 266.74 | 0.63 | 573.38 | 1.98 | 1339.87 | 0.82 | 11.43 | 12.24 | 26.30 | 61.46 |
| 1770.000 | 129.80 | 2430.00 | 303.11 | 0.69 | 631.68 | 2.15 | 1495.21 | 0.90 | 11.52 | 12.47 | 25.99 | 61.53 |
| 1770.000 | 130.22 | 3630.00 | 490.28 | 0.92 | 900.65 | 2.93 | 2239.07 | 1.23 | 11.92 | 13.51 | 24.81 | 61.68 |
| 1840.000 | 129.46 | 1620.00 | 189.18 | 0.50 | 438.79 | 1.56 | 992.03 | 0.64 | 11.18 | 11.68 | 27.09 | 61.24 |
| 1840.000 | 129.75 | 2180.00 | 267.75 | 0.60 | 572.01 | 1.97 | 1340.20 | 0.82 | 11.45 | 12.28 | 26.24 | 61.48 |
| 1840.000 | 129.85 | 2430.00 | 304.51 | 0.68 | 629.92 | 2.14 | 1495.57 | 0.90 | 11.55 | 12.53 | 25.92 | 61.55 |
| 1840.000 | 130.25 | 3630.00 | 494.41 | 0.91 | 896.01 | 2.90 | 2239.58 | 1.21 | 11.96 | 13.62 | 24.68 | 61.70 |
| 2300.000 | 129.55 | 1620.00 | 390.59 | 0.45 | 711.71 | 1.05 | 817.71 | 0.32 | 10.35 | 36.46 | 13.07 | 50.48 |
| 2300.000 | 129.84 | 2180.00 | 782.37 | 0.50 | 266.09 | 1.28 | 1131.04 | 0.40 | 10.64 | 35.91 | 12.21 | 51.88 |
| 2300.000 | 129.96 | 2430.00 | 897.61 | 0.53 | 228.87 | 1.37 | 1273.52 | 0.44 | 10.76 | 35.70 | 11.89 | 52.41 |
| 2300.000 | 130.45 | 3630.00 | 1264.54 | 0.69 | 390.17 | 1.75 | 1970.30 | 0.58 | 11.25 | 34.97 | 10.75 | 54.28 |
| 2920.000 | 129.63 | 1620.00 | 501.35 | 1.07 | 563.47 | 3.10 | 135.18 | 1.00 | 8.83 | 55.64 | 36.02 | 8.34 |
| 2920.000 | 129.76 | 2180.00 | 1244.53 | 1.21 | 734.42 | 3.71 | 201.86 | 0.95 | 9.16 | 57.07 | 33.69 | 9.25 |
| 2920.000 | 130.00 | 2430.00 | 1793.85 | 1.41 | 793.30 | 3.94 | 242.81 | 0.92 | 9.29 | 57.36 | 32.65 | 9.99 |
| 2920.000 | 130.45 | 3630.00 | 2785.21 | 1.69 | 1022.90 | 4.72 | 517.19 | 1.02 | 9.85 | 57.57 | 28.18 | 14.25 |

10-YEAR DEWE AT CROSS
SUMMARY PRINTOUT

| SECNO | CWSEL | VOL | K*XL | K*LNCH | K*XNR | .01K | STCHL | STCHR | SSTA | ENDST | TOPWID |
|----------|--------|--------|-------|--------|-------|---------|---------|---------|--------|---------|---------|
| 650.000 | 123.47 | 0. | 90.00 | 50.00 | 90.00 | 418.13 | 1190.00 | 1210.00 | 825.46 | 1665.57 | 841.11 |
| 650.000 | 123.88 | 0. | 90.00 | 50.00 | 90.00 | 562.32 | 1190.00 | 1210.00 | 790.24 | 1692.47 | 902.23 |
| 650.000 | 124.04 | 0. | 90.00 | 50.00 | 90.00 | 626.25 | 1190.00 | 1210.00 | 775.86 | 1703.18 | 927.32 |
| 650.000 | 124.73 | 0. | 90.00 | 50.00 | 90.00 | 935.99 | 1190.00 | 1210.00 | 710.70 | 1753.31 | 1042.61 |
| 1640.000 | 125.58 | 21.87 | 90.00 | 50.00 | 90.00 | 229.62 | 1034.00 | 1066.00 | 970.95 | 1305.79 | 299.66 |
| 1640.000 | 126.12 | 27.70 | 90.00 | 50.00 | 90.00 | 294.20 | 1034.00 | 1066.00 | 961.58 | 1338.18 | 343.76 |
| 1640.000 | 126.30 | 30.11 | 90.00 | 50.00 | 90.00 | 323.87 | 1034.00 | 1066.00 | 957.97 | 1342.91 | 353.00 |
| 1640.000 | 127.02 | 40.61 | 90.00 | 50.00 | 90.00 | 460.32 | 1034.00 | 1066.00 | 938.75 | 1361.64 | 394.51 |
| 1710.000 | 125.11 | 22.81 | 90.00 | 50.00 | 90.00 | 293.26 | 1034.00 | 1066.00 | 961.70 | 1338.02 | 343.45 |
| 1710.000 | 125.54 | 28.92 | 90.00 | 50.00 | 90.00 | 385.66 | 1034.00 | 1066.00 | 950.99 | 1352.07 | 370.88 |
| 1710.000 | 126.87 | 31.43 | 90.00 | 50.00 | 90.00 | 424.15 | 1034.00 | 1066.00 | 944.96 | 1357.08 | 382.86 |
| 1710.000 | 127.59 | 42.39 | 90.00 | 50.00 | 90.00 | 596.76 | 1034.00 | 1066.00 | 917.71 | 1377.11 | 435.98 |
| 1770.000 | 129.47 | 24.78 | 90.00 | 50.00 | 90.00 | 1189.14 | 1034.00 | 1069.00 | 858.07 | 1416.06 | 558.02 |
| 1770.000 | 129.73 | 31.11 | 90.00 | 50.00 | 90.00 | 1289.04 | 1034.00 | 1069.00 | 830.54 | 1417.94 | 587.40 |
| 1770.000 | 129.82 | 33.72 | 90.00 | 50.00 | 90.00 | 1330.33 | 1034.00 | 1069.00 | 819.55 | 1418.68 | 599.14 |
| 1770.000 | 130.22 | 43.08 | 90.00 | 50.00 | 90.00 | 1504.37 | 1034.00 | 1069.00 | 0. | 1650.05 | 872.30 |
| 1840.000 | 129.48 | 28.31 | 90.00 | 50.00 | 90.00 | 1191.38 | 1034.00 | 1069.00 | 857.44 | 1416.12 | 558.69 |
| 1840.000 | 129.75 | 34.88 | 90.00 | 50.00 | 90.00 | 1297.40 | 1034.00 | 1069.00 | 828.30 | 1418.09 | 589.79 |
| 1840.000 | 129.85 | 37.58 | 90.00 | 50.00 | 90.00 | 1340.29 | 1034.00 | 1069.00 | 816.93 | 1418.86 | 601.93 |
| 1840.000 | 130.26 | 49.40 | 90.00 | 50.00 | 90.00 | 1524.12 | 1034.00 | 1069.00 | 0. | 1694.12 | 920.63 |
| 2300.000 | 129.85 | 62.10 | 90.00 | 50.00 | 90.00 | 1766.96 | 838.00 | 862.00 | 454.41 | 1820.00 | 1365.59 |
| 2300.000 | 129.84 | 71.53 | 90.00 | 50.00 | 90.00 | 2000.13 | 838.00 | 862.00 | 451.55 | 1820.00 | 1368.45 |
| 2300.000 | 129.96 | 75.40 | 90.00 | 50.00 | 90.00 | 2100.04 | 838.00 | 862.00 | 450.38 | 1820.00 | 1369.62 |
| 2300.000 | 130.45 | 92.35 | 90.00 | 50.00 | 90.00 | 2539.44 | 838.00 | 862.00 | 0. | 1820.00 | 1439.23 |
| 2920.000 | 129.63 | 100.28 | 90.00 | 50.00 | 90.00 | 511.92 | 586.00 | 614.00 | 277.83 | 1087.08 | 418.69 |
| 2920.000 | 129.96 | 113.54 | 90.00 | 50.00 | 90.00 | 593.57 | 586.00 | 614.00 | 266.09 | 1208.75 | 717.76 |
| 2920.000 | 130.09 | 119.56 | 90.00 | 50.00 | 90.00 | 631.58 | 586.00 | 614.00 | 231.90 | 1220.00 | 790.25 |
| 2920.000 | 130.65 | 144.96 | 90.00 | 50.00 | 90.00 | 828.15 | 586.00 | 614.00 | 48.12 | 1220.00 | 1039.24 |

SUMMARY OF ERRORS

CAUTION SECNO= 1770.000 PROFILE= 1 HYDRAULIC JUMP D.S.
CAUTION SECNO= 1770.000 PROFILE= 2 HYDRAULIC JUMP D.S.

PRINTED IN U.S.A.

PRINTED IN U.S.A.

GR 130.000 800.000 129.100 900.000 127.800 950.000 125.100 1000.000 124.200 1034.000
 122.000 120.900 1085.000 119.200 1140.000 119.900 1190.000 120.300 1192.000
 116.900 1200.000 120.400 1208.000 121.800 1210.000 121.800 1250.000 122.400 1600.000
 124.000 1700.000 125.000 1775.000 126.000 1920.000 128.000 2040.000 0. 0.
 0. 0. 0. 0. 0. 100.200 0. 0. 0. 0.

THIS RUN EXECUTED 06/05/80 9.276

 HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977
 ERROR CORR - 01.02
 MODIFICATION - 50,51,52,53

T1 LUMBERTON NC. IVEY BRANCH
 T2 FLOOD INSURANCE STUDY
 T3 100-YEAR Q NATURAL CONDITIONS

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FO
 0. 4. 0. 0. 0.001500 0. 0. 0. 125.000 0.

J2 NPROF IPLOT PRFVS ISECV XSECH FN ALLDC IBW CHNIM ITRACE
 1.000 0. -1.000 5.000 500.000 0. 0. 0. 0. 0.

J3 VARIABLE CODES FOR SUMMARY PRINTOUT
 38.000 1.000 50.000 51.000 42.000 39.000 0. 38.000 21.000 22.000

53.000 54.000 4.000 0. 38.000 1.000 58.000 33.000 50.000 40.000

41.000 25.000 0. 38.000 1.000 43.000 13.000 55.000 14.000 26.000

15.000 56.000 8.000 35.000 60.000 59.000 0. 38.000 1.000 7.000

16.000 17.000 18.000 34.000 21.000 22.000 53.000 54.000 4.000 0.

NC 0.090 0.090 0.050 7.100 0.300 0. 0. 0. 0. 0.
 QT 5.000 1620.000 2180.000 2430.000 3630.000 2430.000 0. 0. 0. 0.
 ET 0. 0. 0. 0. 0. 7.100 1050.000 1370.000 0. 0.

X1 650.000 19.000 1190.000 1210.000 0. 0. 0. 0. 0. 0.
 GR 130.000 0. 129.000 230.000 128.000 555.000 126.000 585.000 124.000 780.000
 GR 122.000 950.000 120.900 1085.000 119.200 1140.000 119.900 1190.000 120.300 1192.000
 GR 116.900 1200.000 120.400 1208.000 121.800 1210.000 121.800 1250.000 122.400 1600.000
 GR 124.000 1700.000 125.000 1775.000 126.000 1920.000 128.000 2040.000 0. 0.
 ET 0. 0. 0. 0. 0. 100.200 0. 0. 0. 0.

X1 1640.000 21.000 1034.000 1066.000 990.000 990.000 990.000 0. 0. 0.
 GR 130.200 0. 132.000 125.000 133.900 450.000 132.000 665.000 130.000 750.000
 GR 128.000 825.000 128.100 900.000 126.700 950.000 125.200 980.000 132.700 1000.000
 GR 124.100 1020.000 123.600 1034.000 120.300 1039.000 117.800 1050.000 120.400 1061.000
 GR 123.700 1066.000 123.900 1100.000 123.800 1150.000 126.000 1335.000 130.000 1440.000
 GR 134.000 1900.000 0. 0. 0. 0. 0. 0. 0. 0.

X1 1710.000 0. 0. 0. 70.000 70.000 70.000 0. 0. 0.
 SB 1.250 1.500 3.000 650.000 11.000 1.000 80.000 0. 0. 0.

X1 1770.000 19.000 1034.000 1069.000 60.000 60.000 60.000 0. 0. 0.
 X2 0. 0. 1.000 125.500 129.000 0. 0. 0. 0. 0.
 GR 130.000 0. 132.000 100.000 134.000 310.000 134.000 605.000 132.000 695.000

PRINTED IN U.S.A.

| | | | | | | | | | | |
|----|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|
| GR | 130.000 | 800.000 | 129.100 | 900.000 | 127.800 | 950.000 | 125.100 | 1000.000 | 124.200 | 1034.000 |
| GR | 118.300 | 1050.000 | 124.900 | 1069.000 | 122.300 | 1100.000 | 123.100 | 1150.000 | 125.200 | 1200.000 |
| GR | 126.000 | 1370.000 | 128.000 | 1405.000 | 130.000 | 1420.000 | 130.500 | 1950.000 | 0. | 0. |

| | | | | | | | | | | |
|----|----------|----|----|----|--------|--------|--------|----|----|----|
| X1 | 1840.000 | 0. | 0. | 0. | 70.000 | 70.000 | 70.000 | 0. | 0. | 0. |
|----|----------|----|----|----|--------|--------|--------|----|----|----|

| | | | | | | | | | | |
|----|----------|---------|---------|----------|---------|----------|---------|----------|---------|---------|
| X1 | 2300.000 | 19.000 | 838.000 | 862.000 | 460.000 | 460.000 | 460.000 | 0. | 0. | 0. |
| GR | 130.000 | 0. | 132.000 | 140.000 | 132.000 | 280.000 | 130.000 | 450.000 | 128.000 | 470.000 |
| GR | 126.000 | 630.000 | 124.000 | 730.000 | 122.000 | 770.000 | 125.800 | 600.000 | 124.900 | 838.000 |
| GR | 121.300 | 842.000 | 119.200 | 850.000 | 121.400 | 858.000 | 124.000 | 862.000 | 124.000 | 900.000 |
| GR | 123.500 | 950.000 | 126.000 | 1012.000 | 128.000 | 1480.000 | 128.000 | 1820.000 | 0. | 0. |

| | | | | | | | | | | |
|----|----------|----------|---------|----------|---------|---------|---------|---------|---------|---------|
| X1 | 2920.000 | 17.000 | 586.000 | 614.000 | 620.000 | 620.000 | 620.000 | 0. | 0. | 0. |
| GR | 130.800 | 0. | 130.000 | 265.000 | 126.000 | 405.000 | 125.900 | 500.000 | 127.300 | 586.000 |
| GR | 123.000 | 591.000 | 120.800 | 600.000 | 122.600 | 609.000 | 126.700 | 614.000 | 126.600 | 650.000 |
| GR | 112.100 | 683.000 | 131.700 | 700.000 | 130.000 | 726.000 | 131.600 | 810.000 | 130.000 | 880.000 |
| GR | 119.600 | 1075.000 | 130.000 | 1220.000 | 0. | 0. | 0. | 0. | 0. | 0. |
| EJ | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977
ERROR CORR - 01,02
MODIFICATION - 50,51,52,53

T1 LUMBERTON NC IVEY BRANCH
T2 FLOOD INSURANCE STUDY
T3 100-YR Q FLOODWAY RUN

| J1 | ICHECK | ING | NINV | IDIR | STRT | METRIC | HVINS | Q | WSEL | FQ |
|----|--------|-------|--------|-------|----------|--------|-------|-----|---------|--------|
| | 0. | 6. | 0. | 0. | 0.001500 | 0. | 0. | 0. | 125.000 | 0. |
| J2 | NPROF | IPL0T | PRFVS | XSECV | XSECH | FN | ALLOC | IBW | CHNIM | ITRACE |
| | 15.000 | 0. | -1.000 | 5.000 | 500.000 | 0. | 0. | 0. | 0. | 0. |

 HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

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

100-YEAR 0 NATURAL
 SUMMARY PRINTOUT

| SECNO | CWSEL | DIFKSP | DIFWSX | ELMIN | XLCH |
|------------|--------|--------|--------|--------|--------|
| 650.000 | 124.04 | 0. | 0. | 116.90 | 0. |
| 650.000 | 125.07 | 1.03 | 0. | 116.90 | 0. |
| 1640.000 | 126.30 | 0. | 2.26 | 117.80 | 990.00 |
| 1640.000 | 127.20 | 0.90 | 2.13 | 117.80 | 990.00 |
| 1710.000 | 126.83 | 0. | 0.53 | 117.80 | 70.00 |
| 1710.000 | 127.79 | 0.96 | 0.59 | 117.80 | 70.00 |
| 1770.000 | 129.82 | 0. | 2.99 | 118.30 | 60.00 |
| * 1770.000 | 129.56 | -0.27 | 1.76 | 118.30 | 60.00 |
| 1840.000 | 129.85 | 0. | 0.02 | 118.30 | 70.00 |
| 1840.000 | 129.74 | -0.11 | 0.18 | 118.30 | 70.00 |
| 2300.000 | 129.56 | 0. | 0.11 | 119.20 | 460.00 |
| 2300.000 | 130.74 | 0.78 | 1.00 | 119.20 | 460.00 |
| 2920.000 | 130.09 | 0. | 0.13 | 120.80 | 620.00 |
| 2920.000 | 132.14 | 2.05 | 1.41 | 120.80 | 620.00 |

100-YEAR B
NATURAL
SUMMARY PRINTOUT

SECNO STCHL STCHR SSTA ENDST TOPMID

| | | | | | |
|----------|---------|---------|---------|---------|---------|
| 650.000 | 1190.00 | 1210.00 | 775.86 | 1703.18 | 927.32 |
| 650.000 | 1190.00 | 1210.00 | 1050.11 | 1370.00 | 320.00 |
| 1640.000 | 1034.00 | 1066.00 | 957.97 | 1342.91 | 353.00 |
| 1640.000 | 1034.00 | 1066.00 | 1012.79 | 1100.00 | 87.21 |
| 1710.000 | 1034.00 | 1066.00 | 944.96 | 1357.08 | 382.86 |
| 1710.000 | 1034.00 | 1066.00 | 1011.40 | 1100.00 | 88.60 |
| 1770.000 | 1034.00 | 1069.00 | 819.55 | 1418.68 | 599.14 |
| 1770.000 | 1034.00 | 1069.00 | 1001.50 | 1101.50 | 100.00 |
| 1640.000 | 1034.00 | 1069.00 | 816.93 | 1418.86 | 601.93 |
| 1840.000 | 1034.00 | 1069.00 | 1001.50 | 1101.50 | 100.00 |
| 2300.000 | 838.00 | 862.00 | 450.38 | 1820.00 | 1369.62 |
| 2300.000 | 838.00 | 862.00 | 800.00 | 900.00 | 100.00 |
| 2920.000 | 586.00 | 614.00 | 231.90 | 1220.00 | 790.25 |
| 2920.000 | 586.00 | 614.00 | 550.00 | 650.00 | 100.00 |

100-YEAR Q NATURAL
SUMMARY PRINTOUT

| SECNO | CWSEL | KRATIO | K*CHSL | DIFWSP | ELTRD | ELLC | AREA |
|------------|--------|--------|--------|--------|--------|--------|---------|
| 650.000 | 124.04 | 0. | 0. | 0. | 0. | 0. | 1925.78 |
| 650.000 | 125.07 | 0. | 0. | 1.03 | 0. | 0. | 1326.33 |
| 1640.000 | 126.30 | 0.52 | 0.91 | 0. | 0. | 0. | 723.77 |
| 1640.000 | 127.20 | 0.49 | 0.91 | 0.90 | 0. | 0. | 404.54 |
| 1710.000 | 126.83 | 1.31 | 0. | 0. | 0. | 0. | 921.87 |
| 1710.000 | 127.73 | 1.18 | 0. | 0.96 | 0. | 0. | 457.12 |
| 1770.000 | 129.82 | 3.14 | 8.33 | 0. | 129.00 | 125.50 | 2398.17 |
| * 1770.000 | 129.56 | 1.40 | 8.33 | -0.27 | 129.00 | 125.50 | 639.77 |
| 1840.000 | 129.35 | 1.01 | 0. | 0. | 0. | 0. | 2412.33 |
| 1840.000 | 129.74 | 1.04 | 0. | -0.11 | 0. | 0. | 657.61 |
| 2300.000 | 129.96 | 1.57 | 1.96 | 0. | 0. | 0. | 4749.92 |
| 2300.000 | 130.74 | 0.99 | 1.96 | 0.78 | 0. | 0. | 690.94 |
| 2920.000 | 130.09 | 0.30 | 2.58 | 0. | 0. | 0. | 1455.77 |
| 2920.000 | 132.14 | 0.94 | 2.58 | 2.05 | 0. | 0. | 641.42 |

100-YEAR Q NATURAL
SUMMARY PRINTOUT

| SECNO | CWSEL | Q | QLOB | VLOB | QCH | VCH | QROB | VROB | DEPTH | QLOB% | QCH% | QROB% |
|----------|--------|---------|---------|------|---------|------|---------|------|-------|-------|-------|-------|
| 650.000 | 124.04 | 2430.00 | 1285.59 | 1.32 | 319.74 | 3.18 | 824.67 | 0.97 | 7.14 | 52.91 | 13.16 | 33.94 |
| 650.000 | 125.07 | 2430.00 | 1288.42 | 1.86 | 437.49 | 3.61 | 704.08 | 1.38 | 8.17 | 53.02 | 18.00 | 28.97 |
| 1640.000 | 126.30 | 2430.00 | 95.68 | 1.78 | 1461.47 | 7.24 | 872.85 | 1.86 | 8.50 | 3.94 | 60.14 | 35.92 |
| 1640.000 | 127.20 | 2430.00 | 157.57 | 2.71 | 1947.38 | 8.44 | 325.05 | 2.81 | 9.40 | 6.48 | 80.14 | 13.38 |
| 1710.000 | 126.83 | 2430.00 | 118.13 | 1.45 | 1279.42 | 5.84 | 1032.45 | 1.66 | 9.03 | 4.86 | 52.65 | 42.49 |
| 1710.000 | 127.79 | 2430.00 | 180.72 | 2.54 | 1891.06 | 7.57 | 358.24 | 2.63 | 9.99 | 7.44 | 77.82 | 14.74 |
| 1770.000 | 129.82 | 2430.00 | 303.11 | 0.69 | 631.68 | 2.15 | 1495.21 | 0.90 | 11.52 | 12.47 | 25.99 | 61.55 |
| 1770.000 | 129.56 | 2430.00 | 341.26 | 2.13 | 1592.71 | 5.61 | 496.03 | 2.54 | 11.26 | 14.04 | 65.54 | 20.41 |
| 1840.000 | 129.85 | 2430.00 | 304.51 | 0.68 | 629.92 | 2.14 | 1495.57 | 0.90 | 11.55 | 12.53 | 25.92 | 61.55 |
| 1840.000 | 129.74 | 2430.00 | 346.24 | 2.09 | 1584.18 | 5.46 | 499.58 | 2.48 | 11.44 | 14.25 | 65.19 | 20.56 |
| 2300.000 | 129.96 | 2430.00 | 867.61 | 0.53 | 288.87 | 1.37 | 1273.52 | 0.44 | 10.76 | 35.70 | 11.89 | 52.41 |
| 2300.000 | 130.74 | 2430.00 | 448.91 | 2.19 | 1346.99 | 5.85 | 634.10 | 2.48 | 11.54 | 18.47 | 55.43 | 26.09 |
| 2920.000 | 130.09 | 2430.00 | 1593.89 | 1.41 | 793.30 | 3.94 | 242.81 | 0.92 | 9.29 | 57.36 | 32.65 | 9.99 |
| 2920.000 | 132.14 | 2430.00 | 412.20 | 2.23 | 1557.60 | 6.02 | 460.20 | 2.33 | 11.34 | 16.95 | 64.10 | 18.94 |

100-YEAR Q NATURAL
SUMMARY PRINTOUT

| SECNO | CWSEL | VOL | K*XNL | K*XNCH | K*XNR | .01K | STCHL | STCHR | SSTA | ENDST | TOPWID |
|------------|--------|--------|-------|--------|-------|---------|---------|---------|---------|---------|---------|
| 650.000 | 124.04 | 0. | 90.00 | 50.00 | 90.00 | 626.25 | 1190.00 | 1210.00 | 775.86 | 1703.18 | 927.32 |
| 650.000 | 125.07 | 0. | 90.00 | 50.00 | 90.00 | 624.95 | 1190.00 | 1210.00 | 1050.00 | 1370.00 | 320.00 |
| 1640.000 | 126.30 | 30.11 | 90.00 | 50.00 | 90.00 | 323.87 | 1034.00 | 1066.00 | 957.97 | 1342.91 | 353.00 |
| 1640.000 | 127.20 | 19.67 | 90.00 | 50.00 | 90.00 | 303.52 | 1034.00 | 1066.00 | 1012.79 | 1100.00 | 87.21 |
| 1710.000 | 126.83 | 31.43 | 90.00 | 50.00 | 90.00 | 424.15 | 1034.00 | 1066.00 | 944.96 | 1357.08 | 382.86 |
| 1710.000 | 127.79 | 20.36 | 90.00 | 50.00 | 90.00 | 356.94 | 1034.00 | 1066.00 | 1011.40 | 1100.00 | 88.60 |
| 1770.000 | 129.82 | 33.72 | 90.00 | 50.00 | 90.00 | 1330.33 | 1034.00 | 1069.00 | 819.55 | 1418.68 | 599.14 |
| * 1770.000 | 129.56 | 21.12 | 90.00 | 50.00 | 90.00 | 499.92 | 1034.00 | 1069.00 | 1001.50 | 1101.50 | 100.00 |
| 1840.000 | 129.85 | 37.58 | 90.00 | 50.00 | 90.00 | 1340.29 | 1034.00 | 1069.00 | 816.93 | 1418.86 | 601.93 |
| 1840.000 | 129.74 | 22.16 | 90.00 | 50.00 | 90.00 | 521.17 | 1034.00 | 1069.00 | 1001.50 | 1101.50 | 100.00 |
| 2300.000 | 129.96 | 75.40 | 90.00 | 50.00 | 90.00 | 2100.04 | 838.00 | 862.00 | 450.38 | 1820.00 | 1369.62 |
| 2300.000 | 130.74 | 29.28 | 90.00 | 50.00 | 90.00 | 518.44 | 838.00 | 862.00 | 800.00 | 900.00 | 100.00 |
| 2920.000 | 130.09 | 119.56 | 90.00 | 50.00 | 90.00 | 631.58 | 586.00 | 614.00 | 231.90 | 1220.00 | 790.25 |
| 2920.000 | 132.14 | 38.76 | 90.00 | 50.00 | 90.00 | 488.11 | 586.00 | 614.00 | 550.00 | 650.00 | 100.00 |

SUMMARY OF ERRORS

CAUTION SECNO= 1770.000 PROFILE= 2 HYDRAULIC JUMP D.S.

 HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

T1 LUMBERTON NC TVEY BRANCH
 T2 FLOOD INSURANCE STUDY
 T3 100-YEAR Q NATURAL CONDITIONS

J1 ICHECK IMP MINV IDIR STAT METRIC HVINS Q WSEL FG
 0. 4. 1. 0. 0.001500 0. 0. 0. 125.000 0.

J2 NPROP IPILOT PRFVS XSECV XSECH FN ALLDC IBW CHVIN ITRACE
 1.000 0. -1.000 5.000 500.000 0. 0. 0. 0. 0.

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000 1.000 50.000 51.000 42.000 39.000 0. 38.000 21.000 22.000

53.000 54.000 4.000 0. 38.000 1.000 58.000 33.000 50.000 40.000

41.000 25.000 0. 36.000 1.000 43.000 13.000 55.000 14.000 26.000

15.000 56.000 8.000 35.000 60.000 59.000 0. 38.000 1.000 7.000

16.000 17.000 18.000 34.000 21.000 22.000 53.000 54.000 4.000 0.

NC 0.090 0.050 0.050 0.100 0.500 0. 0. 0. 0. 0.
 QT 5.000 1620.000 2130.000 2430.000 3630.000 2430.000 0. 0. 0. 0.
 TT 0. 4. 0. 0. 0. 0. 7.100 1050.000 1370.000 0.

X1 650.000 12.000 1190.000 1210.000 0. 0. 0. 0. 0. 0.
 GR 130.000 0. 129.000 230.000 128.000 555.000 126.000 585.000 124.000 780.000
 GR 152.000 950.000 120.900 1985.000 119.200 1140.000 119.900 1190.000 120.300 1192.000
 GR 110.900 1200.000 120.400 1208.000 121.800 1210.000 121.800 1250.000 122.400 1600.000
 GR 124.000 1700.500 125.000 1775.000 126.000 1920.000 128.000 2040.000 0. 0.
 TT 0. 0. 0. 0. 0. 0. 100.200 0. 0. 0.

X1 1040.000 21.000 1034.000 1066.000 990.000 990.000 990.000 0. 0. 0.
 GR 150.200 0. 132.000 125.000 133.900 450.000 132.000 665.000 130.000 750.000
 GR 120.000 825.000 128.100 950.000 125.700 950.000 125.200 980.000 132.700 1000.000
 GR 124.100 1920.000 123.500 1034.000 120.300 1035.000 117.800 1050.000 120.400 1061.000
 GR 123.700 1950.000 123.900 1100.000 123.800 1150.000 126.000 1335.000 130.000 1440.000
 GR 124.000 1900.000 0. 0. 0. 0. 0. 0. 0. 0.

X1 1710.000 0. 0. 0. 70.000 70.000 70.000 0. 0. 0.
 SB 1.200 1.500 3.000 650.000 11.000 1.000 80.000 0. 0. 0.

X1 1770.000 19.000 1034.000 1069.000 60.000 60.000 60.000 0. 0. 0.
 Z2 0.000 0. 1.000 125.500 129.000 0. 0. 0. 0. 0.
 GR 130.000 0. 132.000 100.000 134.000 310.000 134.000 605.000 132.000 695.000

| | | | | | | | | | | |
|----|----------|----------|---------|----------|---------|----------|---------|----------|---------|----------|
| GR | 130.000 | 800.000 | 122.100 | 300.000 | 127.800 | 950.000 | 125.100 | 1000.000 | 124.200 | 1034.000 |
| GR | 118.300 | 1050.000 | 124.900 | 1069.000 | 122.300 | 1100.000 | 123.100 | 1150.000 | 125.200 | 1200.000 |
| GR | 126.000 | 1370.000 | 128.000 | 1405.000 | 130.000 | 1420.000 | 130.500 | 1950.000 | 0. | 0. |
| XI | 1840.000 | 0. | 0. | 0. | 70.000 | 70.000 | 70.000 | 0. | 0. | 0. |
| XI | 2300.000 | 19.000 | 838.000 | 862.000 | 460.000 | 460.000 | 460.000 | 0. | 0. | 0. |
| GR | 130.000 | 0. | 132.000 | 140.000 | 132.000 | 280.000 | 130.000 | 450.000 | 128.000 | 470.000 |
| GR | 126.000 | 630.000 | 124.000 | 730.000 | 122.000 | 770.000 | 125.800 | 800.000 | 124.900 | 838.000 |
| GR | 121.300 | 842.000 | 119.200 | 850.000 | 121.400 | 858.000 | 124.000 | 862.000 | 124.000 | 900.000 |
| GR | 123.500 | 950.000 | 126.000 | 1012.000 | 128.000 | 1480.000 | 128.000 | 1820.000 | 0. | 0. |
| XI | 2920.000 | 17.000 | 586.000 | 614.000 | 620.000 | 620.000 | 620.000 | 0. | 0. | 0. |
| GR | 130.800 | 0. | 130.000 | 265.000 | 126.000 | 405.000 | 125.900 | 500.000 | 127.300 | 586.000 |
| GR | 123.000 | 591.000 | 120.800 | 500.000 | 122.600 | 509.000 | 126.700 | 614.000 | 126.600 | 650.000 |
| GR | 132.100 | 685.000 | 131.700 | 700.000 | 130.000 | 726.000 | 131.600 | 810.000 | 130.000 | 880.000 |
| GR | 129.600 | 1075.000 | 130.000 | 1220.000 | 0. | 0. | 0. | 0. | 0. | 0. |
| EJ | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |

HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977
ERROR CORR - 01,02
MODIFICATION - 50,51,52,53

T1 LUMBERTON NC IVEY BRANCH
T2 FLOOD INSURANCE STUDY
T3 100-YR Q FLOWWAY RUN

| J1 | ICHECK | IRQ | NINV | IDIR | STRT | METRIC | HVINS | Q | WSEL | FQ |
|----|--------|------|--------|-------|----------|--------|-------|-----|---------|--------|
| | 0. | 6. | 0. | 0. | 0.001500 | 0. | 0. | 0. | 125.000 | 0. |
| J2 | NPROF | IPLT | PRFVS | XSECV | XSECH | FN | ALLDC | IBW | CHNIN | ITRACE |
| | 15.000 | 0. | -1.000 | 5.000 | 500.000 | 0. | 0. | 0. | 0. | 0. |

HCC2 RELEASE DATED NOV 76 UPDATED AUG 1977
ERROR CORR - 01,02
MODIFICATION - 50,51,52,53

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

100-YEAR Q NATURAL
SUMMARY PRINTOUT

| SECNO | QWSEL | DIFWSP | DIFWSX | ELMIN | XLCH |
|------------|--------|--------|--------|--------|--------|
| 650.000 | 124.04 | 0. | 0. | 116.90 | 0. |
| 650.000 | 125.87 | 1.03 | 0. | 116.90 | 0. |
| 1640.000 | 126.30 | 0. | 2.26 | 117.80 | 990.00 |
| 1640.000 | 127.20 | 0.50 | 2.13 | 117.80 | 990.00 |
| 1710.000 | 126.83 | 0. | 0.53 | 117.80 | 70.00 |
| 1710.000 | 127.79 | 0.95 | 0.59 | 117.80 | 70.00 |
| 1770.000 | 129.82 | 0. | 2.99 | 118.30 | 60.00 |
| * 1770.000 | 129.56 | -0.27 | 1.76 | 118.30 | 60.00 |
| 1840.000 | 129.85 | 0. | 0.02 | 118.30 | 70.00 |
| 1840.000 | 129.74 | -0.11 | 0.18 | 118.30 | 70.00 |
| 2300.000 | 129.86 | 0. | 0.11 | 119.20 | 460.00 |
| 2300.000 | 130.74 | 0.78 | 1.00 | 119.20 | 460.00 |
| 2920.000 | 130.05 | 0. | 0.13 | 120.80 | 620.00 |
| 2920.000 | 130.14 | 0.09 | 1.41 | 120.80 | 620.00 |

100-YEAR Q NATURAL
SUMMARY PRINTOUT

| SECNO | STCHL | STCHR | SSTA | ENDST | TOPWID |
|----------|---------|---------|---------|---------|---------|
| 650.000 | 1190.00 | 1210.00 | 775.86 | 1703.18 | 927.32 |
| 650.000 | 1190.00 | 1210.00 | 1050.00 | 1370.00 | 320.00 |
| 1640.000 | 1034.00 | 1066.00 | 957.97 | 1342.21 | 353.00 |
| 1640.000 | 1034.00 | 1066.00 | 1012.79 | 1100.00 | 87.21 |
| 1710.000 | 1034.00 | 1066.00 | 944.96 | 1357.08 | 382.86 |
| 1710.000 | 1034.00 | 1066.00 | 1011.40 | 1100.00 | 88.60 |
| 1770.000 | 1034.00 | 1069.00 | 819.55 | 1418.68 | 599.14 |
| 1770.000 | 1034.00 | 1069.00 | 1091.50 | 1101.50 | 100.00 |
| 1840.000 | 1034.00 | 1069.00 | 816.93 | 1418.86 | 601.93 |
| 1840.000 | 1034.00 | 1069.00 | 1001.50 | 1101.50 | 100.00 |
| 2300.000 | 838.00 | 862.00 | 450.38 | 1020.00 | 1369.62 |
| 2300.000 | 838.00 | 862.00 | 800.00 | 500.00 | 100.00 |
| 2920.000 | 586.00 | 614.00 | 231.90 | 1220.00 | 790.25 |
| 2920.000 | 586.00 | 614.00 | 550.00 | 650.00 | 100.00 |

100-YEAR Q NATURAL
SUMMARY PRINTOUT

| SFCNO | CWSFL | KRATIO | K*CHSL | DIFWSP | ELTRD | ELLC | AREA |
|------------|--------|--------|--------|--------|--------|--------|---------|
| 650.000 | 124.04 | 0. | 0. | 0. | 0. | 0. | 1925.78 |
| 650.000 | 125.07 | 0. | 0. | 1.03 | 0. | 0. | 1326.33 |
| 1640.000 | 126.30 | 0.52 | 0.91 | 0. | 0. | 0. | 723.77 |
| 1640.000 | 127.20 | 0.49 | 0.91 | 0.90 | 0. | 0. | 404.54 |
| 1710.000 | 126.83 | 1.31 | 0. | 0. | 0. | 0. | 921.87 |
| 1710.000 | 127.79 | 1.18 | 0. | 0.96 | 0. | 0. | 457.12 |
| 1770.000 | 129.82 | 3.14 | 8.33 | 0. | 129.00 | 125.50 | 2398.17 |
| * 1770.000 | 129.56 | 1.40 | 8.33 | -0.27 | 129.00 | 125.50 | 639.77 |
| 1840.000 | 129.85 | 1.01 | 0. | 0. | 0. | 0. | 2412.33 |
| 1840.000 | 129.74 | 1.04 | 0. | -0.11 | 0. | 0. | 657.61 |
| 2300.000 | 129.96 | 1.57 | 1.96 | 0. | 0. | 0. | 4749.92 |
| 2300.000 | 130.74 | 0.99 | 1.96 | 0.78 | 0. | 0. | 690.94 |
| 2920.000 | 130.09 | 0.30 | 2.58 | 0. | 0. | 0. | 1455.77 |
| 2920.000 | 132.14 | 0.94 | 2.58 | 2.05 | 0. | 0. | 641.42 |

100-YEAR Q NATURAL
SUMMARY PRINTOUT

| SECNO | CWSEL | Q | QLOB | VLOB | QCH | VCH | QROB | VROB | DEPTH | QLOBX | QCHX | QROBX |
|----------|--------|---------|---------|------|---------|------|---------|------|-------|-------|-------|-------|
| 650.000 | 124.04 | 2430.00 | 1285.59 | 1.32 | 319.74 | 3.18 | 824.67 | 0.97 | 7.14 | 52.91 | 13.16 | 35.94 |
| 650.000 | 125.07 | 2430.00 | 1288.42 | 1.86 | 437.49 | 3.61 | 704.08 | 1.38 | 8.17 | 53.02 | 18.00 | 28.97 |
| 1640.000 | 126.30 | 2430.00 | 95.68 | 1.78 | 1461.47 | 7.24 | 872.85 | 1.96 | 8.50 | 3.94 | 60.14 | 35.92 |
| 1640.000 | 127.20 | 2430.00 | 157.57 | 2.71 | 1947.38 | 8.44 | 325.05 | 2.81 | 9.40 | 6.48 | 80.14 | 23.38 |
| 1710.000 | 126.83 | 2430.00 | 118.13 | 1.45 | 1279.42 | 5.84 | 1032.45 | 1.66 | 9.03 | 4.86 | 52.65 | 42.49 |
| 1710.000 | 127.79 | 2430.00 | 180.71 | 2.54 | 1891.05 | 7.57 | 358.24 | 2.63 | 9.99 | 7.44 | 77.82 | 14.74 |
| 1770.000 | 129.82 | 2430.00 | 303.11 | 0.69 | 631.68 | 2.15 | 1495.21 | 0.90 | 11.52 | 12.47 | 25.99 | 61.53 |
| 1770.000 | 129.56 | 2430.00 | 341.26 | 2.13 | 1592.71 | 5.61 | 496.03 | 2.54 | 11.26 | 14.04 | 65.54 | 20.41 |
| 1840.000 | 129.85 | 2430.00 | 304.51 | 0.68 | 629.92 | 2.14 | 1495.57 | 0.90 | 11.55 | 12.53 | 25.92 | 61.55 |
| 1840.000 | 129.74 | 2430.00 | 346.24 | 2.09 | 1584.18 | 5.46 | 499.58 | 2.48 | 11.44 | 14.25 | 65.19 | 20.56 |
| 2300.000 | 129.96 | 2430.00 | 867.61 | 0.53 | 288.87 | 1.37 | 1273.52 | 0.44 | 10.76 | 35.70 | 11.89 | 52.41 |
| 2300.000 | 130.74 | 2430.00 | 448.91 | 2.19 | 1346.99 | 5.85 | 634.10 | 2.48 | 11.54 | 18.47 | 55.43 | 26.09 |
| 2920.000 | 130.09 | 2430.00 | 1393.89 | 1.41 | 793.30 | 3.94 | 242.81 | 0.92 | 9.29 | 57.36 | 32.65 | 9.99 |
| 2920.000 | 132.14 | 2430.00 | 412.20 | 2.23 | 1557.60 | 6.02 | 460.20 | 2.33 | 11.34 | 16.96 | 64.10 | 18.94 |

100-YEAR Q NATURAL
SUMMARY PRINTOUT

| SECNO | CWSEL | VOL | K*XNL | K*XNCH | K*XNR | .QIK | STCHL | STCHR | SSTA | ENDST | TOPWID |
|------------|--------|--------|-------|--------|-------|---------|---------|---------|---------|---------|---------|
| 650.000 | 124.04 | 0. | 90.00 | 50.00 | 90.00 | 626.25 | 1190.00 | 1210.00 | 775.86 | 1703.18 | 927.32 |
| 650.000 | 125.07 | 0. | 90.00 | 50.00 | 90.00 | 624.95 | 1190.00 | 1210.00 | 1050.00 | 1370.00 | 320.00 |
| 1640.000 | 126.30 | 30.11 | 90.00 | 50.00 | 90.00 | 323.87 | 1034.00 | 1066.00 | 957.97 | 1342.91 | 353.00 |
| 1640.000 | 127.20 | 19.67 | 90.00 | 50.00 | 90.00 | 303.52 | 1034.00 | 1066.00 | 1012.79 | 1100.00 | 87.21 |
| 1710.000 | 126.83 | 31.43 | 90.00 | 50.00 | 90.00 | 424.15 | 1034.00 | 1066.00 | 944.96 | 1357.08 | 382.86 |
| 1710.000 | 127.79 | 20.36 | 90.00 | 50.00 | 90.00 | 356.94 | 1034.00 | 1066.00 | 1011.40 | 1100.00 | 88.60 |
| 1770.000 | 129.82 | 33.72 | 90.00 | 50.00 | 90.00 | 1330.33 | 1034.00 | 1069.00 | 819.55 | 1418.68 | 599.14 |
| * 1770.000 | 129.56 | 21.12 | 90.00 | 50.00 | 90.00 | 499.92 | 1034.00 | 1069.00 | 1001.50 | 1101.50 | 100.00 |
| 1840.000 | 129.83 | 37.58 | 90.00 | 50.00 | 90.00 | 1340.29 | 1034.00 | 1069.00 | 816.93 | 1418.86 | 601.93 |
| 1840.000 | 129.74 | 22.16 | 90.00 | 50.00 | 90.00 | 521.17 | 1034.00 | 1069.00 | 1001.50 | 1101.50 | 100.00 |
| 2300.000 | 129.96 | 75.40 | 90.00 | 50.00 | 90.00 | 2100.04 | 833.00 | 862.00 | 450.38 | 1820.00 | 1369.62 |
| 2300.000 | 130.74 | 29.28 | 90.00 | 50.00 | 90.00 | 518.44 | 838.00 | 862.00 | 800.00 | 900.00 | 100.00 |
| 2920.000 | 130.09 | 119.56 | 90.00 | 50.00 | 90.00 | 631.58 | 586.00 | 614.00 | 231.90 | 1220.00 | 790.25 |
| 2920.000 | 132.14 | 38.76 | 90.00 | 50.00 | 90.00 | 488.11 | 586.00 | 614.00 | 550.00 | 650.00 | 100.00 |

SUMMARY OF ERRORS

CAUTION SECNO= 1770.000 PROFILE= 2 HYDRAULIC JUMP D.S.