

EXHIBIT F

NEW HEC-2 COMPUTER PROGRAM INPUT & OUTPUT FILE

ENCROACHMENT RUN (FILE CSKWPKE1)

COWSKIN CREEK

BETWEEN TYLER ROAD AND PAWNEE AVENUE

WICHITA, KANSAS

THIS RUN EXECUTED 04/11/88 18:00:05

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION APRIL 1985

C
 T1 COWSKIN CREEK WAMKEC PROFILE 3 INPUT FILE CALIBRATION RUN FILE CSMKPK1.HC2
 T2 WICHITA KANSAS FIS REVISION FOR WOODLAND @ THE PARK ADDITION
 T3 100YR NAT & FLDY PROFILE

J1	ICHECK	INQ	NINV	IDIR	START	METRIC	HVINS	Q	WSEL	FD
	0.	2.	0.	0.	.000000	.00	.0	0.	1301.200	.000
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

NC	.035	.035	.035	.050	.050	.000	.000	.000	.000	.000	.000	.000
DT	3.000	17400.000	17400.000	17400.000	17400.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	2.400	.000	.000	.000	.000	.000	.000	.000	.000	.000
FIRST MKEC CROSS SECTION												
X1	258.250	17.000	920.000	983.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1320.000	.000	1310.000	280.000	1300.000	500.000	1298.000	655.000	1296.000	855.000	1290.000	983.000
GR	1294.000	920.000	1290.000	940.000	1287.900	955.000	1288.000	970.000	1290.000	983.000	1300.000	2420.000
GR	1292.000	1025.000	1296.000	1040.000	1298.000	1875.000	1299.000	1900.000	1300.000	2420.000	.000	.000
GR	1305.000	2550.000	1310.000	2650.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	276.250	13.000	580.000	780.000	1800.000	1800.000	1800.000	1800.000	.000	.000	.000	.000
GR	1320.000	.000	1310.000	.000	1305.000	150.000	1305.000	580.000	1290.000	660.000	1300.000	2080.000
GR	1289.000	680.000	1290.000	710.000	1295.000	780.000	1300.000	1600.000	1300.000	2080.000	.000	.000
GR	1300.000	2290.000	1310.000	2500.000	1320.000	2500.000	.000	.000	.000	.000	.000	.000
X1	283.500	15.000	1250.000	1415.000	725.000	725.000	725.000	725.000	.000	.000	.000	.000
GR	1320.000	.000	1315.000	180.000	1310.000	370.000	1307.000	590.000	1302.000	870.000	1300.000	1130.000
GR	1300.000	1130.000	1298.000	1250.000	1290.000	1290.000	1289.500	1320.000	1290.000	1350.000	1350.000	1350.000
GR	1296.000	1415.000	1298.000	1520.000	1299.000	3400.000	1300.000	4100.000	1310.000	4100.000	4100.000	4100.000
ET	.000	.000	4.400	.000	.000	.000	.000	.000	.000	.000	.000	.000
TYLER ROAD FLOW BELOW ELEVATION 1304 CONFINED TO CHANNEL												
X1	284.900	21.000	1250.000	1455.000	140.000	140.000	140.000	140.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	1320.000	.000	1310.000	370.000	1304.000	760.000	1303.000	870.000	1304.000	1304.000	1304.000	1304.000
GR	1298.000	1250.000	1298.000	1250.100	1298.000	1265.000	1292.000	1320.000	1290.000	1330.000	1290.000	1130.000
GR	1289.500	1345.000	1290.000	1365.000	1292.000	1375.000	1294.000	1435.000	1297.000	1455.000	1297.000	1455.000
GR	1297.000	1455.100	1298.000	1520.000	1298.500	1920.000	1299.000	3400.000	1299.000	3800.000	1299.000	3800.000

GR	1307.000	4750.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.045	.045	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TYLER ROAD BRIDGE FLOW BELOW ELEVATION 1304 CONFINED TO CHANNEL													
X1	285.000	.000	.000	10.000	10.000	.000	.000	10.000	.000	.000	.000	.000	.000
X2	.000	.000	1302.000	1304.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	1304.000	1304.000	.000	.000	.000
TYLER ROAD BRIDGE FLOW BELOW ELEVATION 1304 CONFINED TO CHANNEL													
X1	285.300	.000	.000	30.000	30.000	.000	.000	30.000	.000	.000	.000	.000	.000
X2	.000	.000	1302.000	1304.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	1304.000	1304.000	.000	.000	.000
TYLER ROAD FLOW BELOW ELEVATION 1304 CONFINED TO CHANNEL													
X1	285.400	.000	.000	10.000	10.000	.000	.000	10.000	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	1304.000	1304.000	.000	.000	.000
NC	.045	.045	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	7.400	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	287.300	14.000	1405.000	1610.000	250.000	150.000	150.000	200.000	.000	.000	.000	.000	.000
GR	1320.000	.000	1310.000	450.000	1302.000	650.000	1300.000	1300.000	1155.000	1298.000	.000	1380.000	.000
GR	1294.000	1405.000	1292.000	1460.000	1290.200	1495.000	1292.000	1292.000	1517.000	1298.000	.000	1540.000	.000
GR	1298.000	1610.000	1299.500	2240.000	1300.000	3820.000	1310.000	1310.000	4060.000	1314.000	.000	2980.000	.000
ET	.000	.000	8.100	.000	.000	.000	.000	.000	983.000	2003.000	.000	.000	.000
G&O CROSS SECTION A @ RM 6.47													
X1	301.300	15.000	1030.000	1170.000	700.000	1100.000	1800.000	.000	.000	.000	.000	.000	.000
GR	1320.000	.000	1320.000	280.000	1305.000	400.000	1300.000	910.000	.000	1298.000	.000	1030.000	.000
GR	1294.000	1060.000	1290.800	1100.000	1294.000	1130.000	1298.000	1170.000	.000	1300.000	.000	1290.000	.000
GR	1300.000	1750.000	1297.000	1920.000	1300.000	2010.000	1310.000	2760.000	.000	1314.000	.000	2980.000	.000
ET	.000	.000	8.100	.000	.000	.000	.000	1130.000	1912.000	1912.000	.000	.000	.000
G&O CROSS SECTION B @ RM 6.70													
X1	314.300	19.000	1785.000	1912.000	950.000	1450.000	1580.000	.000	.000	.000	.000	.000	.000
GR	1330.000	.000	1320.000	.000	1310.000	220.000	1304.000	390.000	.000	1302.000	.000	490.000	.000
GR	1300.000	1785.000	1298.000	1795.000	1296.000	1820.000	1294.000	1822.000	.000	1292.000	.000	1825.000	.000
GR	1291.500	1830.000	1291.500	1840.000	1292.000	1850.000	1294.000	1863.000	.000	1296.000	.000	1880.000	.000
GR	1304.000	1912.000	1310.000	2120.000	1320.000	2535.000	1330.000	2535.000	.000	1314.000	.000	2980.000	.000
ET	.000	.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	335.000	17.000	1450.000	1675.000	1450.000	2050.000	2200.000	.000	.000	.000	.000	.000	.000
GR	1320.000	.000	1310.000	450.000	1305.000	1170.000	1304.000	1300.000	.000	1302.000	.000	1450.000	.000
GR	1300.000	1530.000	1298.000	1550.000	1296.000	1630.000	1292.000	1640.000	.000	1291.800	.000	1650.000	.000
GR	1292.000	1655.000	1302.000	1675.000	1302.000	1795.000	1310.000	2150.000	.000	1311.000	.000	2770.000	.000
GR	1315.000	3300.000	1325.000	3800.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	336.300	15.000	1580.000	1675.000	130.000	130.000	130.000	.000	.000	.000	.000	.000	.000
GR	1320.000	.000	1310.000	450.000	1305.000	1170.000	1304.000	1300.000	.000	1302.000	.000	1450.000	.000
GR	1302.000	1580.000	1292.000	1595.000	1292.000	1620.000	1294.000	1655.000	.000	1302.000	.000	1675.000	.000
GR	1302.000	1795.000	1310.000	2150.000	1311.000	2770.000	1315.000	3300.000	.000	1325.000	.000	3800.000	.000

SECNO	DEPTH	CWSEL	CRIMS	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

*PRDF 1

CCHV= .050 CEHV= .050

*SECNO 258.250

FIRST MKEC CROSS SECTION

258.25	13.30	1301.20	.00	1301.20	1301.30	.10	.00	.00	1294.00
17400.	3517.	2875.	11008.	1600.	725.	5014.	0.	0.	1290.00
.00	2.20	3.97	2.20	.035	.038	.035	.000	1287.90	473.60
.000401	0.	0.	0.	0	0	0	.00	1977.60	2451.20

*SECNO 276.250

276.25	12.97	1301.97	.00	.00	1302.09	.12	.00	.00	1305.00
17400.	0.	6171.	11229.	0.	1668.	5059.	291.	77.	1295.00
.18	.00	3.70	2.22	.035	.038	.035	.000	1289.00	596.18
.000478	1800.	1800.	1800.	2	0	0	.00	1735.10	2331.28

*SECNO 283.500

283.50	12.75	1302.25	.00	.00	1302.29	.04	.20	.00	1298.00
17400.	694.	4076.	12630.	717.	1681.	9527.	446.	118.	1296.00
.31	.97	2.42	1.33	.035	.038	.035	.000	1289.50	855.99
.000175	725.	725.	725.	2	0	0	.00	3244.01	4100.00

*SECNO 284.900

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELREA= 1304.00 ELREA= 1304.00

TYLER ROAD FLOW BELOW ELEVATION 1304 CONFINED TO CHANNEL

284.90	10.18	1299.68	.00	.00	1302.51	2.83	.08	.14	1298.00
17400.	0.	17400.	0.	0.	1289.	0.	467.	124.	1297.00
.31	.00	13.49	.00	.035	.038	.035	.000	1289.50	1250.00
.010322	140.	140.	140.	5	0	0	.00	205.00	1455.00

*SECNO 285.000

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1304.00 MAX ELLD= 1302.00

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	GLOB	QCH	GRQB	ALOB	ACH	AROB	VUL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VRQB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 1304.00 ELREA= 1304.00

TYLER ROAD BRIDGE FLOW BELOW ELEVATION 1304 CONFINED TO CHANNEL									
285.00	10.75	1300.25	.00	.00	1302.64	2.38	.11	.02	1298.00
17400.	0.	17400.	0.	0.	1404.	0.	467.	124.	1297.00
.31	.00	12.39	.00	.045	.045	.045	.000	1289.50	1250.00
.010890	10.	10.	10.	4	0	0	.00	205.00	1455.00

*SECNO 285.300

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1304.00 MAX ELLC= 1302.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 1304.00 ELREA= 1304.00

TYLER ROAD BRIDGE FLOW BELOW ELEVATION 1304 CONFINED TO CHANNEL									
285.30	11.49	1300.99	.00	.00	1303.93	1.94	.27	.02	1298.00
17400.	0.	17400.	0.	0.	1557.	0.	468.	124.	1297.00
.31	.00	11.18	.00	.045	.045	.045	.000	1289.50	1250.00
.007721	30.	30.	30.	3	0	0	.00	205.00	1455.00

*SECNO 285.400

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 1304.00 ELREA= 1304.00

TYLER ROAD BRIDGE FLOW BELOW ELEVATION 1304 CONFINED TO CHANNEL									
285.40	11.65	1301.15	.00	.00	1303.01	1.86	.07	.00	1298.00
17400.	0.	17400.	0.	0.	1589.	0.	469.	124.	1297.00
.31	.00	10.95	.00	.045	.045	.045	.000	1289.50	1250.00
.007209	10.	10.	10.	2	0	0	.00	205.00	1455.00

*SECNO 287.300

3301 HV CHANGED MORE THAN HVINS

287.30	13.00	1303.20	.00	.00	1303.24	.04	.14	.09	1294.00
17400.	2654.	4058.	10688.	2251.	1803.	8370.	497.	131.	1298.00
.35	1.18	2.25	1.28	.045	.045	.045	.000	1290.20	620.08
.000258	250.	200.	150.	2	0	0	.00	3276.64	3896.72

SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	GCH	GRQB	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

*SECNO 301.300

G&O CROSS SECTION A @ RM 6.47

301.30	12.82	1303.62	.00	.00	1303.76	.14	.52	.01	1298.00
17400.	2376.	5499.	9525.	1224.	1319.	4045.	747.	191.	1298.00
.47	1.94	4.17	2.35	.045	.045	.045	.000	1290.80	540.52
.000806	700.	1800.	1100.	3	0	0	.00	1741.15	2281.67

*SECNO 314.300

G&O CROSS SECTION B @ RM 6.70

314.30	13.26	1304.76	.00	.00	1304.91	.15	1.14	.00	1300.00
17400.	12576.	4819.	5.	5045.	1104.	10.	926.	236.	1304.00
.59	2.49	4.36	.55	.045	.045	.045	.000	1291.50	368.64
.001007	950.	1580.	1450.	2	0	0	.00	1569.49	1938.13

*SECNO 335.000

G&O CROSS SECTION C @ RM 6.70

335.00	15.08	1306.88	.00	.00	1307.23	.35	2.32	.01	1302.00
17400.	2956.	10949.	3495.	1148.	1970.	1115.	1134.	285.	1302.00
.70	2.57	5.56	3.13	.045	.045	.045	.000	1291.80	898.66
.001599	1450.	2200.	2050.	2	0	0	.00	1113.08	2011.74

*SECNO 336.300

G&O CROSS SECTION D @ RM 6.70

336.30	15.03	1307.03	.00	.00	1307.44	.41	.20	.00	1302.00
17400.	5638.	8128.	3633.	1684.	1198.	1165.	1146.	289.	1302.00
.71	2.99	6.79	3.12	.045	.045	.045	.000	1292.00	877.66
.001533	130.	130.	130.	2	0	0	.00	1140.55	2018.21

*SECNO 336.400

G&O CROSS SECTION E @ RM 6.70

336.40	15.03	1307.03	.00	.00	1307.47	.44	.03	.00	1302.00
17400.	7159.	6139.	4103.	1480.	1009.	839.	1147.	290.	1302.00
.71	4.84	6.09	4.89	.045	.045	.045	.000	1292.00	875.38
.006432	10.	10.	10.	1	0	0	-928.75	1142.23	2018.61

*SECNO 336.650

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1304.00 MAX ELLC= 1302.00

336.40	15.03	1307.03	.00	.00	1307.47	.44	.03	.00	1302.00
17400.	7159.	6139.	4103.	1480.	1009.	839.	1147.	290.	1302.00
.71	4.84	6.09	4.89	.045	.045	.045	.000	1292.00	875.38
.006432	10.	10.	10.	1	0	0	-928.75	1142.23	2018.61

SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
G	GLOB	GCH	GR0B	ALOB	ACH	AR0B	VDL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VR0B	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XL0BL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1304.00 MAX ELLC= 1302.00

PAWNEE AVENUE

336.65	15.24	1307.24	.00	.00	1307.62	.38	.15	.00	1302.00
17400.	7419.	5776.	4205.	1624.	1028.	909.	1149.	290.	1302.00
.71	4.57	5.62	4.63	.045	.045	.045	.000	1292.00	847.65
.003353	25.	25.	25.	2	0	0	-928.75	1179.81	2027.46

*SECNO 336.750

336.75	15.29	1307.29	.00	.00	1307.64	.35	.02	.00	1302.00
17400.	5894.	7776.	3730.	2077.	1223.	1258.	1150.	291.	1302.00
.71	2.84	6.36	2.96	.045	.045	.045	.000	1292.00	839.25
.001308	10.	10.	10.	0	0	0	.00	1190.80	2030.05

*SECNO 337.700

6&0 CROSS SECTION C @ RM 7.14

337.70	15.70	1307.60	.00	.00	1307.74	.14	.09	.01	1302.00
17400.	6093.	4823.	6485.	2972.	1043.	2877.	1162.	294.	1298.00
.72	2.05	4.62	2.25	.045	.045	.045	.000	1291.90	395.66
.000715	95.	95.	95.	0	0	0	.00	2050.96	2446.62

*SECNO 357.700

357.70	15.25	1308.95	.00	.00	1309.02	.07	1.27	.00	1304.00
17400.	6451.	6287.	4662.	3773.	2435.	2699.	1570.	395.	1304.00
1.04	1.71	2.58	1.73	.045	.045	.045	.000	1293.70	211.48
.000421	1875.	3015.	2225.	3	0	0	.00	2054.38	2255.87

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

*PROF 2

CCHV= .050 CEHV= .050

*SECD 258.250

2800 NAT Q1= 8684.25 WSEL= 1301.20 ENC Q1= 8684.25 WSEL= 1301.40 RATIO= .0000
 NAT Q1= 9340. RATIOS LOB,CH,ROB= .2037 .1581 .6382 WSEL= 1301.40

3470 ENCROACHMENT STATIONS= 663.0 Z106.4 TYPE= 4 TARGET= .070
 FIRST MKEC CROSS SECTION

258.25	14.30	1302.20	.00	1301.20	1302.28	.08	.00	.00	1294.00
17400.	3170.	2600.	11630.	1474.	788.	5647.	0.	0.	1290.00
.00	2.15	3.30	2.06	.035	.038	.035	.000	1287.90	663.00
.000249	0.	0.	0.	0	0	0	.00	1443.38	2106.38

*SECD 276.250

2800 NAT Q1= 7961.09 WSEL= 1301.97 ENC Q1= 7961.09 WSEL= 1302.17 RATIO= .0000
 NAT Q1= 8537. RATIOS LOB,CH,ROB= .0000 .3417 .6583 WSEL= 1302.17

3470 ENCROACHMENT STATIONS= 580.0 1931.7 TYPE= 4 TARGET= .067

276.25	13.70	1302.70	.00	1301.97	1302.81	.11	.52	.00	1305.00
17400.	0.	5911.	11489.	0.	1804.	5161.	307.	57.	1295.00
.19	.00	3.28	2.23	.035	.038	.035	.000	1289.00	592.26
.000347	1800.	1800.	1800.	2	0	0	.00	1339.44	1931.70

*SECD 283.500

2800 NAT Q1= 13134.75 WSEL= 1302.25 ENC Q1= 13134.75 WSEL= 1302.45 RATIO= .0000
 NAT Q1= 14218. RATIOS LOB,CH,ROB= .0427 .2236 .7337 WSEL= 1302.45

3470 ENCROACHMENT STATIONS= 1235.7 3843.4 TYPE= 4 TARGET= .076

283.50	13.42	1302.92	.00	1302.25	1302.95	.04	.14	.00	1298.00
17400.	78.	3856.	13467.	69.	1792.	10527.	468.	90.	1296.00
.33	1.13	2.15	1.28	.035	.038	.035	.000	1289.50	1235.66
.000127	725.	725.	725.	2	0	0	.00	2607.77	3843.43

*SECD 284.900

2800 NAT Q1= 1712.63 WSEL= 1299.68 ENC Q1= 1895.40 WSEL= 1300.08 RATIO= -.1067
 NAT Q1= 1895. RATIOS LOB,CH,ROB= .0000 1.0000 .0000 WSEL= 1300.08

3301 HV CHANGED MORE THAN HVINS

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

3470 ENCROACHMENT STATIONS= 1250.0 1455.0 TYPE= 4 TARGET= .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELREA= 1304.00 ELREA= 1304.00

TYLER ROAD FLOW BELOW ELEVATION 1304 CONFINED TO CHANNEL

284.90	11.81	1301.31	.00	1299.68	1303.10	1.79	.05	.09	1298.00
17400.	0.	17400.	0.	1622.	0.	0.	491.	95.	1297.00
.33	.00	10.73	.00	.035	.038	.035	.000	1289.50	1250.00
.004937	140.	140.	140.	4	0	0	.00	205.00	1455.00

*SECNO 285.000

2800 NAT Q1= 1667.41 WSEL= 1300.25 ENC Q1= 1835.36 WSEL= 1300.65 RATIO= -.1007
 NAT Q1= 1835. RATIOS LOB, CH, ROB= .0000 1.0000 .0000 WSEL= 1300.65

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1304.00 MAX ELLC= 1302.00

3470 ENCROACHMENT STATIONS= 1250.0 1455.0 TYPE= 4 TARGET= .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELREA= 1304.00 ELREA= 1304.00

TYLER ROAD BRIDGE FLOW BELOW ELEVATION 1304 CONFINED TO CHANNEL

285.00	11.91	1301.41	.00	1300.25	1303.15	1.74	.06	.00	1298.00
17400.	0.	17400.	0.	1644.	0.	0.	491.	95.	1297.00
.33	.00	10.59	.00	.045	.045	.045	.000	1289.50	1250.00
.006627	10.	10.	10.	2	0	0	.00	205.00	1455.00

*SECNO 285.300

2800 NAT Q1= 1980.26 WSEL= 1300.99 ENC Q1= 2157.68 WSEL= 1301.39 RATIO= -.0896
 NAT Q1= 2158. RATIOS LOB, CH, ROB= .0000 1.0000 .0000 WSEL= 1301.39

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1304.00 MAX ELLC= 1302.00

3470 ENCROACHMENT STATIONS= 1250.0 1455.0 TYPE= 4 TARGET= .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELREA= 1304.00 ELREA= 1304.00

TYLER ROAD BRIDGE FLOW BELOW ELEVATION 1304 CONFINED TO CHANNEL

285.30	12.24	1301.74	.00	1300.99	1303.35	1.61	.19	.01	1298.00
17400.	0.	17400.	0.	1711.	0.	0.	492.	95.	1297.00
.34	.00	10.17	.00	.045	.045	.045	.000	1289.50	1250.00
.005812	30.	30.	30.	2	0	0	.00	205.00	1455.00

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	GLOB	GCH	GROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLORL	XLCH	XLORR	ITRIAL	IDC	ICONT	CORAR	TWPWID	ENDST

*SECNO 285.400
 2800 NAT Q1= 2049.27 WSEL= 1301.15 ENC Q1= 2226.53 WSEL= 1301.55 RATIO= -.0675
 NAT Q1= 2229. RATIOS LOR,CH,ROB= .0000 1.0000 .0000 WSEL= 1301.55

3470 ENCROACHMENT STATIONS= 1250.0 TYPE= 4 TARGET= .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELREA= 1304.00 ELREA= 1304.00

TYLER ROAD FLOW BELOW ELEVATION 1304 CONFINED TO CHANNEL

285.40	12.34	1301.84	.00	1301.15	1303.41	1.57	.06	.00	1298.00
17400.	0.	17400.	0.	0.	1730.	0.	493.	95.	1297.00
.34	.00	10.06	.00	.045	.045	.045	.000	1289.50	1250.00
.005605	10.	10.	10.	2	0	0	.00	205.00	1455.00

*SECNO 287.300
 2800 NAT Q1= 10843.01 WSEL= 1303.20 ENC Q1= 10843.01 WSEL= 1303.90 RATIO= .0000
 NAT Q1= 14068. RATIOS LOR,CH,ROB= .1639 .2044 .6317 WSEL= 1303.90

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 1301.3 TYPE= 4 TARGET= .229

287.30	13.38	1303.58	.00	1303.20	1303.63	.06	.15	.08	1294.00
17400.	1125.	4824.	11451.	601.	1881.	7417.	516.	99.	1298.00
.36	1.87	2.57	1.54	.045	.045	.045	.000	1290.20	1301.27
.000316	250.	200.	150.	3	0	0	.00	2060.22	3361.49

*SECNO 301.300
 3470 ENCROACHMENT STATIONS= 983.0 TYPE= 1 TARGET= 1020.000
 G&O CROSS SECTION A @ RM 6.47

A

301.30	13.29	1304.09	.00	1303.62	1304.27	.18	.63	.01	1298.00
17400.	760.	6058.	10573.	268.	1385.	3917.	733.	140.	1298.00
.47	2.84	4.38	2.70	.045	.045	.045	.000	1290.60	983.00
.000835	700.	1800.	1100.	3	0	0	.00	1020.00	2003.00

*SECNO 314.300
 3470 ENCROACHMENT STATIONS= 1130.0 TYPE= 1 TARGET= 782.000
 G&O CROSS SECTION B @ RM 6.70

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV
G	GLOB	GCH	GROB	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
314.30	13.89	1305.39	.00	1304.76	1305.66	.28	1.39	.00	1300.00
17400.	11151.	6249.	0.	3197.	1185.	0.	883.	167.	100000.00
.56	3.49	5.27	.00	.045	.045	.045	.000	1291.50	1130.00
.001359	950.	1580.	1450.	2	0	0	.00	782.00	1912.00

B

*SECNO 335.000
 2800 NAT Q1= 4351.54 WSEL= 1306.88 ENC Q1= 4351.54 WSEL= 1307.48 RATIO= .0000
 NAT Q1= 5205. RATIOS LOB,CH,ROB= .1997 .5875 .2128 WSEL= 1307.48

3470 ENCROACHMENT STATIONS= 1295.6 TYPE= 4 TARGET= .164
 335.00 16.05 1307.85 .00 1306.88 1308.25 .39 2.58 .01 1302.00
 17400. 2568. 12043. 2788. 741. 2189. 708. 1050. 192. 1302.00
 .67 3.47 5.50 .045 .045 .045 1291.50 1296.64
 .001363 1450. 2200. 2050. 2

*SECNO 336.300
 2800 NAT Q1= 4444.43 WSEL= 1307.03 ENC Q1= 4444.43 WSEL= 1307.63 RATIO= .0000
 NAT Q1= 5300. RATIOS LOB,CH,ROB= .3561 .4233 .2206 WSEL= 1307.63

3470 ENCROACHMENT STATIONS= 1278.0 TYPE= 4 TARGET= .161
 336.30 15.98 1307.98 .00 1307.03 1308.42 .45 .17 .00 1302.00
 17400. 5925. 8531. 2945. 1610. 1268. 757. 1061. 193. 1302.00
 .68 3.68 6.62 .045 .045 .045 1292.00 1277.99
 .001326 130. 130. 130. 2

*SECNO 336.400
 2800 NAT Q1= 2169.50 WSEL= 1307.03 ENC Q1= 2169.50 WSEL= 1307.63 RATIO= .0000
 NAT Q1= 2825. RATIOS LOB,CH,ROB= .4523 .2965 .2512 WSEL= 1307.63

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1304.00 MAX ELLC= 1302.00

3470 ENCROACHMENT STATIONS= 1235.6 TYPE= 4 TARGET= .232
 336.40 15.90 1307.90 .00 1307.03 1308.45 .55 .02 .01 1302.00
 17400. 7948. 6465. 2987. 1327. 1091. 499. 1062. 194. 1302.00
 .68 5.99 5.93 .045 .045 .045 1292.00 1235.58
 .005502 10. 10. 10. 2 0 -855.35 567.46 1803.04

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	GLOSS	BANK	ELEV
G	QCH	ACH	AROB	VOL	TWA	LEFT/RIGHT				
TIME	VCH	XNCH	XNR	WTN	ELMIN	SSTA				
SLOPE	XLOBL	IDC	ICONT	CORAR	TOPWID	ENDST				

*SECNO 336.650
 2800 NAT Q1= 2378.25 WSEL= 1307.24 ENC Q1= 2378.25 WSEL= 1307.84 RATIO= .0000
 NAT Q1= 3082. RATIOS LOB,CH,ROB= .4645 .2802 .2553 WSEL= 1307.84

3370 NORMAL BRIDGE,NRD= 0 MIN ELTRD= 1304.00 MAX ELLC= 1302.00

3470 ENCROACHMENT STATIONS= 1220.1 1806.3 TYPE= 4 TARGET= .228
 PANNEE AVENUE

336.65	16.09	1308.09	.00	1307.24	1308.58	.49	.13	.00	1302.00
17400.	8224.	6125.	3052.	1447.	1109.	537.	1064.	194.	1302.00
.68	5.69	5.52	5.68	.045	.045	.045	.000	1292.00	1220.15
.004675	25.	25.	25.	2	0	0	-861.15	586.15	1806.29

*SECNO 336.750

2800 NAT Q1= 4810.66 WSEL= 1307.29 ENC Q1= 4810.66 WSEL= 1307.89 RATIO= .0000
 NAT Q1= 5709. RATIOS LOB,CH,ROB= .3690 .4060 .2250 WSEL= 1307.89

3470 ENCROACHMENT STATIONS= 1252.6 1808.2 TYPE= 4 TARGET= .157

336.75	16.22	1308.22	.00	1307.29	1308.61	.38	.02	.01	1302.00
17400.	6197.	8152.	3051.	1784.	1311.	827.	1064.	194.	1302.00
.68	3.47	6.22	3.69	.045	.045	.045	.000	1292.00	1252.60
.001141	10.	10.	10.	2	0	0	.00	555.61	1808.21

*SECNO 337.700

3470 ENCROACHMENT STATIONS= 1014.0 1764.0 TYPE= 1 TARGET= 750.000
 G&D CROSS SECTION C @ RM 7.14

337.70	16.59	1308.49	.00	1307.60	1308.70	.21	.09	.01	1302.00
17400.	5834.	5470.	6096.	2108.	1118.	1866.	1074.	195.	1298.00
.68	2.77	4.89	3.23	.045	.045	.045	.000	1291.90	1014.00
.000729	95.	95.	95.	1	0	0	.00	750.00	1764.00

*SECNO 357.700

2800 NAT Q1= 8480.29 WSEL= 1308.95 ENC Q1= 8480.29 WSEL= 1309.55 RATIO= .0000
 NAT Q1= 10321. RATIOS LOB,CH,ROB= .3843 .3375 .2782 WSEL= 1309.55

3470 ENCROACHMENT STATIONS= 585.2 1879.3 TYPE= 4 TARGET= .178

357.70	16.12	1309.82	.00	1308.95	1309.90	.08	1.19	.01	1304.00
17400.	6343.	7025.	4032.	3307.	2720.	2009.	1423.	247.	1304.00
.98	1.92	2.58	2.01	.045	.045	.045	.000	1293.70	585.25
.000364	1875.	3015.	2825.	2	0	0	.00	1294.01	1879.26

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION APRIL 1985

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

100YR NAT & FLDY
 SUMMARY PRINTOUT TABLE 110

SECNO	CWSEL	DIFKWS	ES	TOPWID	GLOB	GCH	OROB	PERENC	STENCL	STCHL	STCHR	STENCH
256.250	1301.20	.00	1301.30	1977.60	3517.06	2675.24	11007.71	.00	.00	920.00	983.00	.00
258.250	1302.20	1.00	1302.28	1443.38	3170.05	2599.65	11630.30	.07	663.00	920.00	983.00	2106.39
276.250	1301.97	.00	1302.09	1735.10	.00	6171.25	11228.75	.00	.00	580.00	780.00	.00
276.250	1302.70	.74	1302.81	1339.44	.00	5910.70	11489.30	.07	580.00	580.00	780.00	1931.70
283.500	1302.25	.00	1302.29	3244.01	693.74	4075.26	12630.00	.00	.00	1250.00	1415.00	.00
283.500	1302.92	.67	1302.95	2607.77	77.64	3855.50	13466.86	.08	1235.66	1250.00	1415.00	3843.43
284.900	1299.68	.00	1302.51	205.00	.00	17400.00	.00	.00	.00	1250.00	1455.00	.00
284.900	1301.31	1.63	1303.10	205.00	.00	17400.00	.00	.00	1250.00	1250.00	1455.00	1455.00
285.000	1300.25	.00	1302.64	205.00	.00	17400.00	.00	.00	.00	1250.00	1455.00	.00
285.000	1301.41	1.16	1303.15	205.00	.00	17400.00	.00	.00	1250.00	1250.00	1455.00	1455.00
285.300	1300.99	.00	1302.93	205.00	.00	17400.00	.00	.00	.00	1250.00	1455.00	.00
285.300	1301.74	.75	1303.35	205.00	.00	17400.00	.00	.00	1250.00	1250.00	1455.00	1455.00
285.400	1301.15	.00	1303.01	205.00	.00	17400.00	.00	.00	.00	1250.00	1455.00	.00
285.400	1301.84	.69	1303.41	205.00	.00	17400.00	.00	.00	1250.00	1250.00	1455.00	1455.00
287.300	1303.20	.00	1303.24	3276.64	2654.40	4057.59	10688.01	.00	.00	1405.00	1610.00	.00
287.300	1303.58	.38	1303.63	2060.22	1124.82	4824.50	11450.68	.23	1301.27	1405.00	1610.00	3351.49
301.300	1303.62	.00	1303.76	1741.15	2375.73	5498.98	9525.29	.00	.00	1030.00	1170.00	.00
301.300	1304.09	.47	1304.27	1020.00	759.51	6067.74	10572.74	1020.00	983.00	1030.00	1170.00	2003.00
314.300	1304.76	.00	1304.91	1569.49	12575.56	4819.06	5.38	.00	.00	1785.00	1912.00	.00
314.300	1305.39	.63	1305.66	782.00	11150.59	6249.41	.00	782.00	1130.00	1785.00	1912.00	1912.00
335.000	1306.88	.00	1307.23	1113.08	2955.83	10948.88	3495.29	.00	.00	1450.00	1675.00	.00
335.000	1307.85	.97	1308.25	499.33	2568.24	12043.46	2788.30	.16	1296.64	1450.00	1675.00	1795.97

A

B

SECNO	CWSEL	DIFKWS	EG	TOPWID	GLOB	GCH	GR0B	PERENC	STENCL	STCHL	STCHR	STENCR
336.300	1307.03	.00	1307.44	1140.55	5638.33	8128.46	3633.21	.00	.00	1580.00	1675.00	.00
336.300	1307.98	.95	1308.42	523.76	5924.77	8530.63	2944.60	.16	1277.99	1580.00	1675.00	1801.75
336.400	1307.03	.00	1307.47	1142.23	7158.01	6138.57	4102.63	.00	.00	1580.00	1675.00	.00
336.400	1307.90	.87	1308.45	567.46	7948.45	6464.96	2986.59	.23	1235.58	1580.00	1675.00	1803.04
336.650	1307.24	.00	1307.62	1179.81	7418.98	5776.19	4204.83	.00	.00	1580.00	1675.00	.00
336.650	1308.09	.85	1308.58	566.15	8223.63	6124.76	3051.61	.23	1220.15	1580.00	1675.00	1806.29
336.750	1307.29	.00	1307.64	1190.80	5893.59	7776.27	3730.14	.00	.00	1580.00	1675.00	.00
336.750	1308.22	.93	1308.61	555.61	6197.38	8152.05	3050.57	.16	1252.60	1580.00	1675.00	1808.21
337.700	1307.60	.00	1307.74	2050.96	6092.61	4823.52	6484.86	.00	.00	1395.00	1480.00	.00
337.700	1308.49	.89	1308.70	750.00	5833.95	5469.78	6096.27	750.00	1014.00	1395.00	1480.00	1764.00
357.700	1308.95	.00	1309.02	2054.38	6451.03	6287.12	4661.85	.00	.00	1205.00	1530.00	.00
357.700	1309.82	.88	1309.90	1294.01	6342.86	7025.13	4032.01	.18	585.25	1205.00	1530.00	1679.26

04/11/23 17:59:57

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SUMMARY OF ERRORS AND SPECIAL NOTES

100YR NAT & FLDY

FLOODWAY DATA,
PROFILE NO. 2

STATION	FLOODWAY SECTION		MEAN VELOCITY	WATER SURFACE ELEVATION		DIFFERENCE
	WIDTH	AREA		WITH FLOODWAY	WITHOUT FLOODWAY	
258.250	1443.	7909.	2.2	1302.2	1301.2	1.0
276.250	1339.	6965.	2.5	1302.7	1302.0	.7
283.500	2608.	12388.	1.4	1303.0	1302.3	.7
284.900	205.	1622.	10.7	1301.3	1299.7	1.6
285.000	205.	1644.	10.6	1301.5	1300.3	1.2
285.300	205.	1711.	10.2	1301.7	1301.0	.7
285.400	205.	1730.	10.1	1301.8	1301.1	.7
287.300	2050.	9898.	1.8	1303.6	1303.2	.4
301.300	1020.	5570.	3.1	1304.1	1303.6	.5
314.300	782.	4382.	4.0	1305.4	1304.8	.6
335.000	499.	3638.	4.8	1307.9	1306.9	1.0
336.300	524.	3655.	4.8	1307.9	1307.0	.9
336.400	567.	2917.	6.0	1307.9	1307.0	.9
336.650	586.	3093.	5.6	1308.1	1307.2	.9
336.750	556.	3922.	4.4	1308.2	1307.3	.9
337.700	750.	5112.	3.4	1308.5	1307.6	.9
357.700	1294.	8036.	2.2	1309.8	1308.9	.9

AD

C

THIS RUN EXECUTED 04/11/88 18:09:18

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HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
ERROR CORR - 01,02,03,04,05,06
MODIFICATION - 50,51,52,53,54,55,56
IBM-PC-XT VERSION APRIL 1985
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EXHIBIT G

NEW HEC-2 COMPUTER PROGRAM INPUT & OUTPUT FILE

ENCROACHMENT RUN (FILE CSKWPKEK)

COWSKIN CREEK

BETWEEN TYLER ROAD AND PAWNEE AVENUE

WICHITA, KANSAS

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XI VERSION APRIL 1985

T1 COMSKIN CREEK WYMEC PROFILE 3 INPUT FILE CALIBRATION RUN FILE CSMWPKEX.HC2
 T2 WICHITA KANSAS FIS REVISION FOR WOODLAND @ THE PARK ADDITION
 T3 100YR NAT & FLDY PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	G	WSEL	FQ
	0.	2.	0.	0.	.000000	.00	.0	0.	1301.200	.000

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT
 110.000 200.000 .000 .000 .000 .000 .000 .000 .000 .000 .000

J5 LPRNT NUMSEC *****REQUESTED SECTION NUMBERS*****
 -10.000 -10.000 .000 .000 .000 .000 .000 .000 .000 .000 .000

NC	QT	ET	FIRST MKEC CROSS SECTION
	.035	.038	.050
	3.000	17400.000	17400.000
	.000	.000	.000
	.000	2.400	.000

X1	GR	GR	GR	GR	GR
258.250	17.000	920.000	983.000	.000	.000
1320.000	.000	1310.000	280.000	1300.000	500.000
1294.000	920.000	1290.000	940.000	1287.900	955.000
1292.000	1025.000	1296.000	1040.000	1298.000	1875.000
1305.000	2550.000	1310.000	2650.000	.000	.000

X1	GR	GR	GR	GR	GR
276.250	13.000	580.000	780.000	1800.000	1800.000
1320.000	.000	1310.000	.000	1305.000	150.000
1289.000	680.000	1290.000	710.000	1295.000	780.000
1300.000	2290.000	1310.000	2500.000	1320.000	2500.000

X1	GR	GR	GR	GR	GR
283.500	15.000	1250.000	1415.000	725.000	725.000
1320.000	.000	1315.000	180.000	1310.000	370.000
1300.000	1130.000	1298.000	1250.000	1290.000	1289.500
1296.000	1415.000	1298.000	1520.000	1299.000	3400.000

X1	GR	GR	GR	GR	GR
283.500	15.000	1250.000	1415.000	725.000	725.000
1320.000	.000	1315.000	180.000	1310.000	370.000
1300.000	1130.000	1298.000	1250.000	1290.000	1289.500
1296.000	1415.000	1298.000	1520.000	1299.000	3400.000

X1	GR	GR	GR	GR	GR
283.500	15.000	1250.000	1415.000	725.000	725.000
1320.000	.000	1315.000	180.000	1310.000	370.000
1300.000	1130.000	1298.000	1250.000	1290.000	1289.500
1296.000	1415.000	1298.000	1520.000	1299.000	3400.000

X1	GR	GR	GR	GR	GR
283.500	15.000	1250.000	1415.000	725.000	725.000
1320.000	.000	1315.000	180.000	1310.000	370.000
1300.000	1130.000	1298.000	1250.000	1290.000	1289.500
1296.000	1415.000	1298.000	1520.000	1299.000	3400.000

THIS RUN EXECUTED 04/14/88 16:56:06

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION APRIL 1985

T1 COWSKIN CREEK WMKEC PROFILE 3 INPUT FILE ENCROACHMENT RUN
 T2 WICHITA KANSAS FIS REVISION FOR WOODLAND @ THE PARK ADDITION
 T3 100 YR FLDY RUN

	INR	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
J1	0.	3.	0.	0.	0.000000	0.	0.	1302.200	.000
J2	15.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	.000

J2 NPROF I PLOT .000
 XSECV XSECH FN ALLDC IBW CHNIM ITRACE

THIS RUN EXECUTED 04/14/88 16:56:56

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION APRIL 1985

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

100YR NAT & FLDY

SUMMARY PRINTOUT TABLE 110

SECD	CWSEL	DIFKWS	EG	TOPWID	GLOB	GCH	GRDB	PERENC	STENCL	STCHL	STCHR	STENCH
258.250	1301.20	.00	1301.30	1977.60	3517.06	2875.24	11007.71	.00	.00	920.00	983.00	.00
258.250	1302.20	1.00	1302.28	1443.38	3170.05	2599.65	11630.30	.07	663.00	920.00	983.00	2106.39
276.250	1301.97	.00	1302.09	1735.10	.00	6171.25	11228.75	.00	.00	580.00	780.00	.00
276.250	1302.70	.74	1302.81	1339.44	.00	5910.70	11489.30	.07	580.00	580.00	780.00	1931.70
283.500	1302.25	.00	1302.29	3244.01	693.74	4076.26	12630.00	.00	.00	1250.00	1415.00	.00
283.500	1302.92	.67	1302.95	2607.77	77.64	3855.50	13466.86	.08	1235.66	1250.00	1415.00	3843.43
284.900	1299.68	.00	1302.51	205.00	.00	17400.00	.00	.00	.00	1250.00	1455.00	.00
284.900	1301.31	1.63	1303.10	205.00	.00	17400.00	.00	.00	1250.00	1250.00	1455.00	1455.00
285.000	1300.25	.00	1302.64	205.00	.00	17400.00	.00	.00	.00	1250.00	1455.00	.00
285.000	1301.41	1.16	1303.15	205.00	.00	17400.00	.00	.00	1250.00	1250.00	1455.00	1455.00
285.300	1300.99	.00	1302.93	205.00	.00	17400.00	.00	.00	.00	1250.00	1455.00	.00
285.300	1301.74	.75	1303.35	205.00	.00	17400.00	.00	.00	1250.00	1250.00	1455.00	1455.00
285.400	1301.15	.00	1303.01	205.00	.00	17400.00	.00	.00	.00	1250.00	1455.00	.00
285.400	1301.84	.69	1303.41	205.00	.00	17400.00	.00	.00	1250.00	1250.00	1455.00	1455.00
287.300	1303.20	.00	1303.24	3276.64	2654.40	4057.59	10688.01	.00	.00	1405.00	1610.00	.00
287.300	1303.58	.38	1303.65	1909.14	652.93	5117.25	11629.82	.28	1358.03	1405.00	1610.00	3257.16
301.300	1303.62	.00	1303.76	1741.15	2375.73	5498.98	9525.29	.00	.00	1030.00	1170.00	.00
301.300	1304.17	.55	1304.38	924.17	603.22	6626.15	10170.64	.26	996.16	1030.00	1170.00	1920.33
314.300	1304.76	.00	1304.91	1569.49	12575.56	4819.06	5.38	.00	.00	1785.00	1912.00	.00
314.300	1305.52	.77	1305.74	875.02	11665.85	5734.15	.00	.27	1036.98	1785.00	1912.00	1912.00
335.000	1306.88	.00	1307.23	1113.08	2955.83	10948.68	3495.29	.00	.00	1450.00	1675.00	.00
335.000	1307.77	.88	1308.24	440.17	2212.65	12883.42	2303.93	.23	1332.31	1450.00	1675.00	1772.48

SECNO	CWSEL	DIFKWS	EG	TOPWTD	QLOB	GCH	GRDB	PERENC	STENCIL	STCHL	STCHR	STENCHR
336.300	1307.03	.00	1307.44	1140.55	5638.33	8128.46	3633.21	.00	.00	1580.00	1675.00	.00
336.300	1307.91	.88	1308.44	463.25	5778.18	9116.46	2505.36	.23	1315.38	1580.00	1675.00	1778.54
336.400	1307.03	.00	1307.47	1142.23	7158.81	6138.57	4102.63	.00	.00	1580.00	1675.00	.00
336.400	1307.66	.63	1308.49	454.03	8200.77	7884.52	1314.71	.32	1272.10	1580.00	1675.00	1725.13
336.650	1307.24	.00	1307.62	1179.81	7418.98	5776.19	4204.83	.00	.00	1580.00	1675.00	.00
336.650	1308.00	.76	1308.69	473.70	8679.34	7261.69	1458.97	.32	1257.23	1580.00	1675.00	1730.93
336.750	1307.29	.00	1307.64	1190.80	5893.59	7776.27	3730.14	.00	.00	1580.00	1675.00	.00
336.750	1308.28	.99	1308.72	488.02	6110.46	8640.16	2649.39	.22	1296.52	1580.00	1675.00	1784.54
337.700	1307.60	.00	1307.74	2050.96	6092.61	4822.52	6484.86	.00	.00	1395.00	1480.00	.00
337.700	1308.62	1.02	1308.82	763.04	5875.90	5347.83	6176.28	.26	1009.94	1395.00	1480.00	1712.97
357.700	1308.95	.00	1309.02	2054.38	6451.03	6287.12	4661.85	.00	.00	1205.00	1530.00	.00
357.700	1309.96	1.01	1310.05	1150.10	6183.15	7549.19	3667.66	.25	667.90	1205.00	1530.00	1818.00

04/14/89

16:53:17

SUMMARY OF ERRORS AND SPECIAL NOTES

70

PAGE

FLOODWAY DATA, 100YR NAT & FLDY
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
258.250	1443.	7909.	2.2	1302.2	1301.2	1.0
276.250	1339.	6965.	2.5	1302.7	1302.0	.7
283.500	2608.	12388.	1.4	1303.0	1302.3	.7
284.900	205.	1622.	10.7	1301.3	1299.7	1.6
285.000	205.	1644.	10.6	1301.5	1300.3	1.2
285.300	205.	1711.	10.2	1301.7	1301.0	.7
285.400	205.	1730.	10.1	1301.8	1301.1	.7
287.300	1909.	9265.	1.9	1303.6	1303.2	.4
301.300	924.	5099.	3.4	1304.1	1303.6	.5
314.300	875.	4899.	3.6	1305.6	1304.8	.8
335.000	440.	3318.	5.2	1307.8	1306.9	.9
336.300	463.	3343.	5.2	1307.9	1307.0	.9
336.400	454.	2380.	7.3	1307.6	1307.0	.6
336.650	474.	2607.	6.7	1308.0	1307.2	.8
336.750	488.	3629.	4.8	1308.3	1307.3	1.0
337.700	763.	5270.	3.3	1308.6	1307.6	1.0
357.700	1150.	7476.	2.3	1309.9	1308.9	1.0

1309.
1187.8

121.6

THIS RUN EXECUTED 04/14/88 16:58:27

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HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
ERROR CORR - 01,02,03,04,05,06
MODIFICATION - 50,51,52,53,54,55,56
IBM-PC-XT VERSION APRIL 1985
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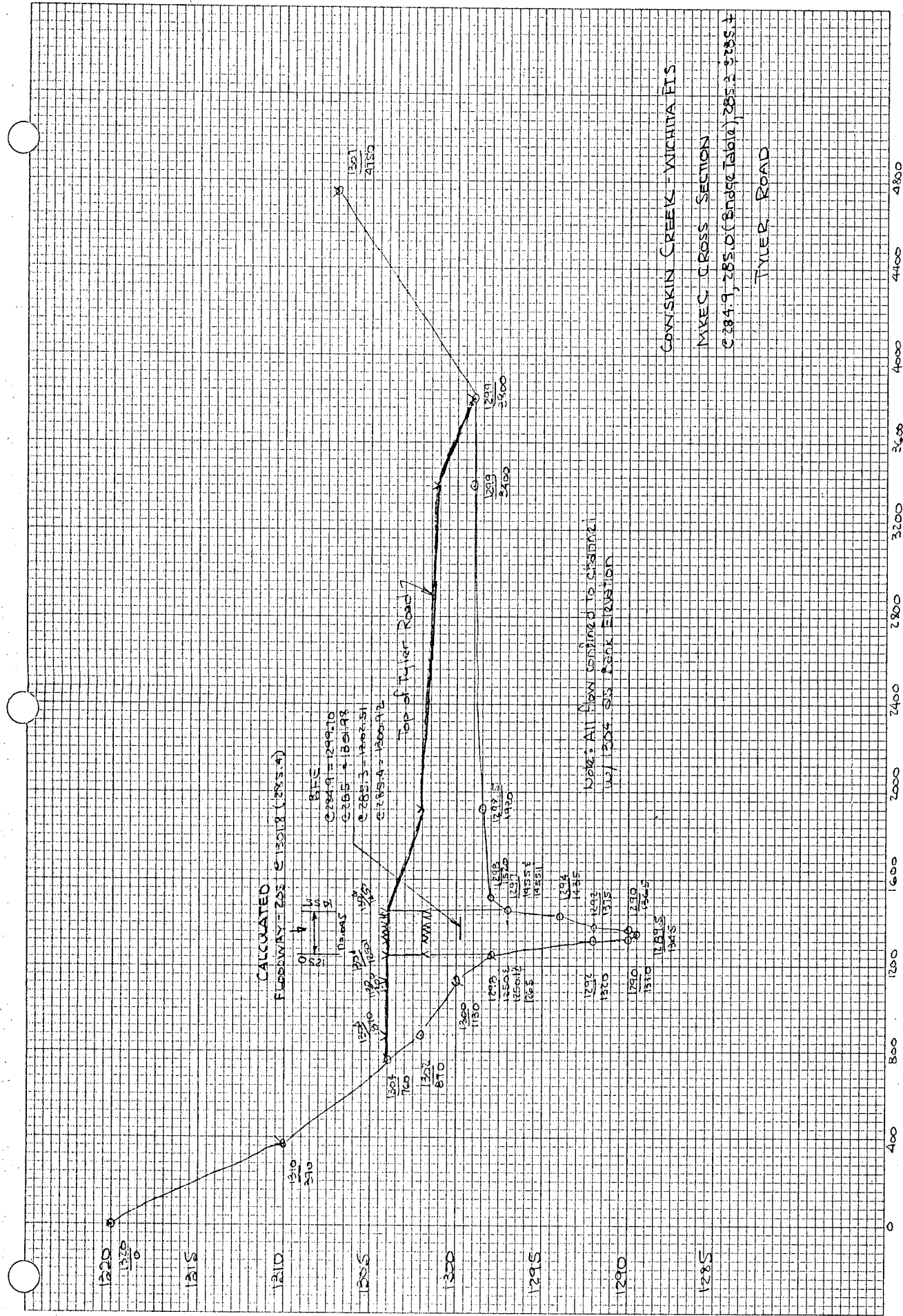
EXHIBIT H

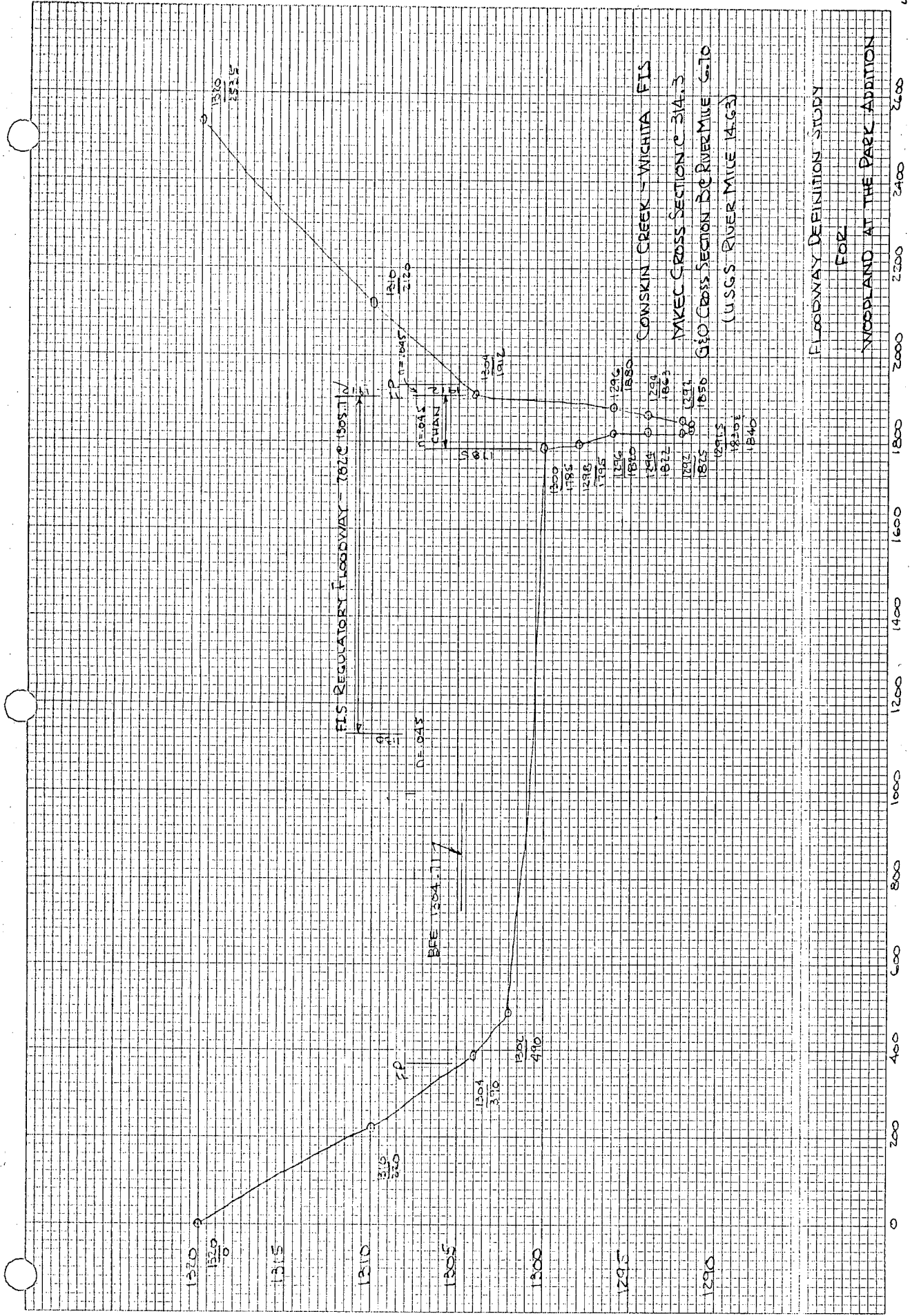
PLOTTED CROSS SECTIONS

COWSKIN CREEK

BETWEEN TYLER ROAD AND PAWNEE AVENUE

WICHITA, KANSAS





FLOODWAY DEFINITION STUDY
FOR
WOODLAND AT THE PARK ADDITION

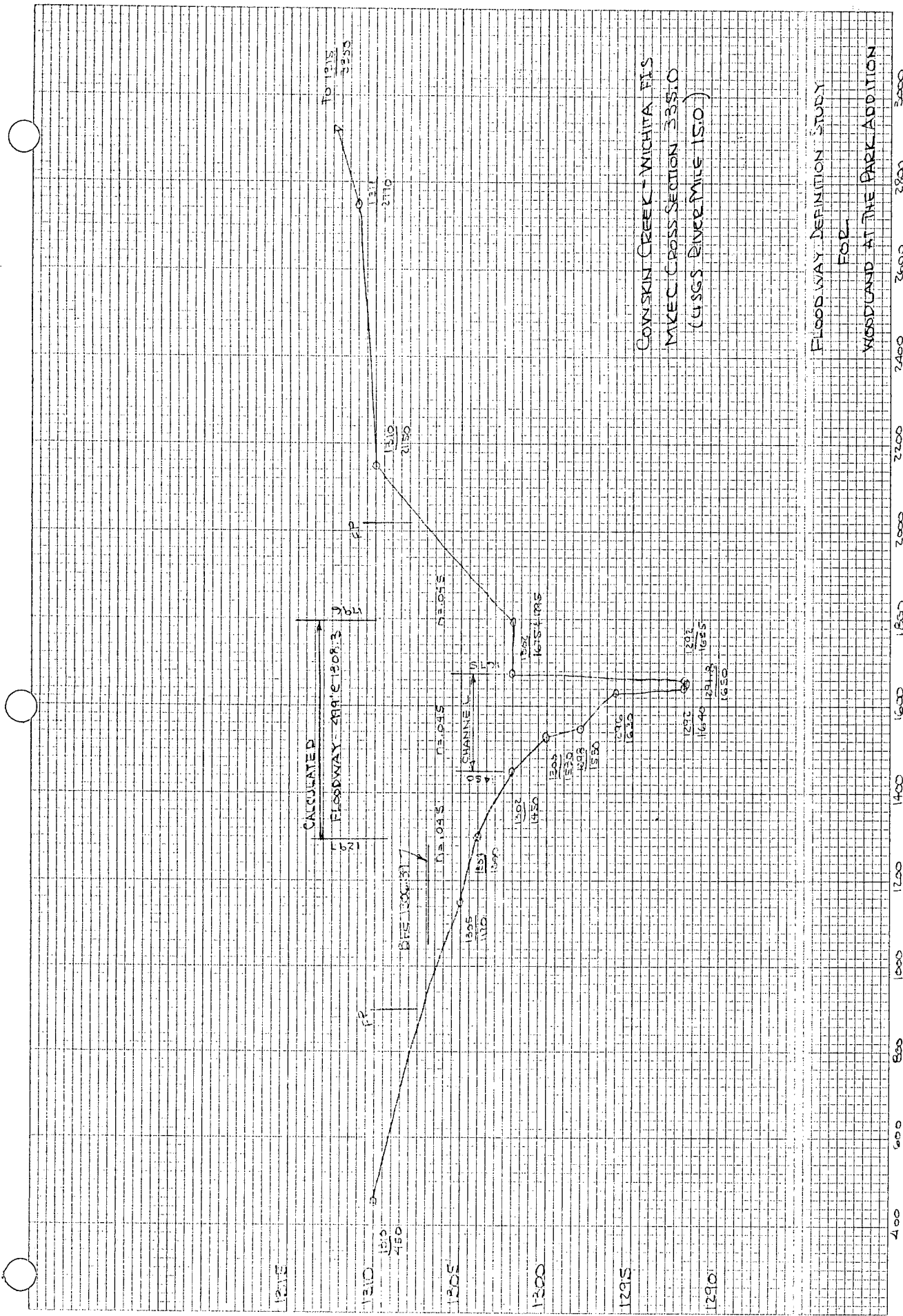
FIS REGULATORY FLOODWAY - 70% C (30% T) 1/2

0.045

BEE 1304.117

FP

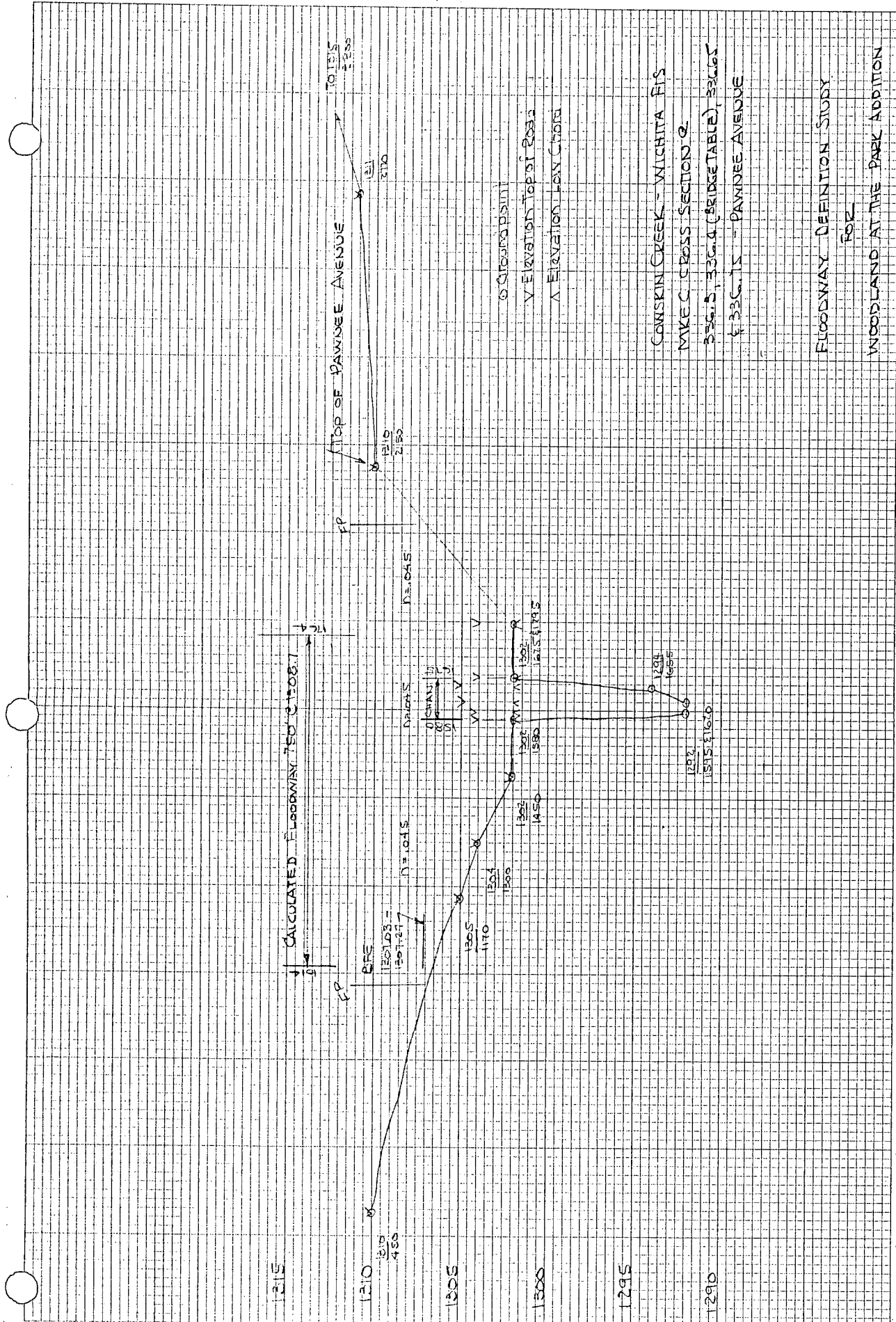
CONSKIN CREEK - WICHITA FIS
MAKEC CROSS SECTION C-31A.3
1950 GEO CROSS SECTION BY RIVER MILE 6.10
(USGS RIVER MILE 14.63)

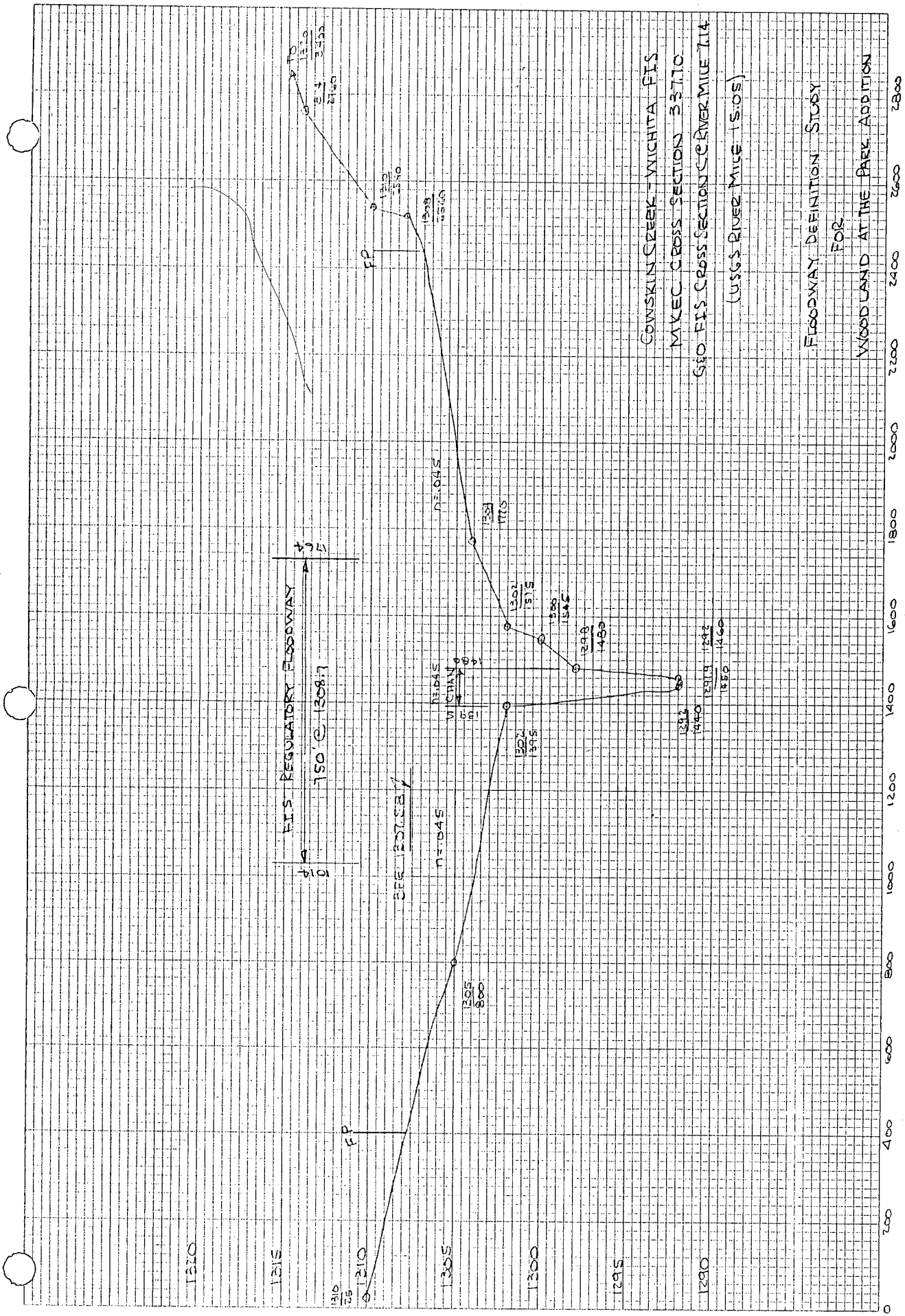


CONNSKIN CREEK - MICHITA FIS
 MKEC CROSS SECTION 335.0
 (4.565 RIVER MILE 15.0)

FLOODWAY DEFINITION STUDY
 FOR
 WOODLAND AT THE PARK ADDITION

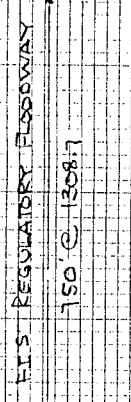
3000
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200





GOWSKIN CREEK - WICHITA FIS
 M.V.E.C. CROSS SECTIONS 33710
 S10 FIS CROSS SECTIONS SC RIVER MILE 714
 (USGS RIVER MILE 15.05)

FLOODWAY DEFINITION STUDY
 FOR
 WOODLAND AT THE PARK ADDITION



1320

1315

1310

1305

1300

1295

1290

1285

1280

1275

1270

1265

1260

1255

1250

1245

1240

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1210

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1200

1195

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1185

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1120

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810

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800

795

790

785

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775

770

765

760

755

750

745

740

735

730

725

720

715

710

705

700

695

690

685

680

675

670

665

660

655

650

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640

635

630

625

C

C

C