B-4
Flood way

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HEC2 VERSION UPDATED JAN 1976
ERROR CORRECTION 01,02,03,04,05,06,07,08,09
MODIFICATIONS 52,53,54,55,56,57,58
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T1      GASTONIA N C
T2      FLOOD INSURANCE
T3      TRIB B-4        100-YR Q

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

        0.        4.        0.        0.  0.        0.        0.        0.  695.300     0.

J3      1.000    34.000     3.000     4.000    27.000    28.000    26.000     0.        0.        0.
NC      0.100     0.100     0.075     0.100     0.300     0.        0.        0.        0.        0.
QT      5.000   400.000   710.000   840.000   840.000  1080.000     0.        0.        0.        0.
ET      0.        0.        0.        0.        10.400    0.        0.        0.        0.        0.

X1      0.       17.000   230.000   245.000     0.        0.        0.        0.        0.        0.
GR    704.000    20.000   699.000    50.000   694.000   100.000   689.300   150.000   689.200   200.000
GR    690.300   230.000   686.900   233.000   686.000   236.000   686.400   240.000   690.000   245.000
GR    690.200   250.000   689.600   300.000   690.900   350.000   691.000   400.000   692.000   450.000
GR    694.000   485.000   704.000   765.000     0.        0.        0.        0.        0.        0.

X1      7.500    17.000   230.000   245.000   750.000   750.000   750.000     0.        0.        0.
GR    710.000    20.000   705.000    50.000   700.000   100.000   695.300   150.000   695.200   200.000
GR    696.300   230.000   692.900   233.000   692.000   236.000   692.400   240.000   696.000   245.000
GR    696.200   250.000   695.600   300.000   696.900   350.000   697.000   400.000   698.000   450.000
GR    700.000   485.000   710.000   765.000     0.        0.        0.        0.        0.        0.

X1     22.700    15.000   210.000   226.000  1520.000  1520.000  1520.000     0.        0.        0.
GR    725.000     0.      718.900    50.000   710.400   100.000   707.400   150.000   707.000   200.000
GR    706.900   210.000   703.100   215.000   701.600   219.000   702.700   224.000   705.900   226.000
GR    705.900   250.000   707.400   300.000   718.000   350.000   723.400   400.000   725.000   460.000

X1     29.000     0.        0.        0.       650.000   650.000   650.000     0.       3.900     0.

X1     35.000    15.000   350.000   390.000   600.000   600.000   600.000     0.        0.        0.
GR    745.000     0.      740.000    25.000   735.000    70.000   730.000   125.000   725.000   185.000
GR    720.000   220.000   715.000   270.000   714.000   350.000   710.000   380.000   714.000   390.000
GR    715.000   400.000   720.000   410.000   725.000   430.000   730.000   480.000   735.000   654.000

X1     36.000     0.        0.        0.       100.000   100.000   100.000     0.       1.000     0.
X3     10.000     0.        0.        0.         0.        0.        0.      727.800   727.800     0.
SB      0.       1.500     2.500   200.000      8.000     0.       50.200     0.       712.200   711.000

X1     37.000     0.        0.        0.       100.000   100.000   100.000     0.       1.200     0.
X2      0.        0.       1.000   720.200   727.400     0.        0.        0.        0.        0.
X3     10.000     0.        0.        0.         0.        0.        0.      727.800   727.800     0.

X1     37.500    12.000   440.000   470.000    50.000    50.000    50.000     0.        0.        0.
GR    735.000     0.      730.000    40.000   725.000   270.000   720.000   330.000   715.000   415.000
GR    714.000   440.000   712.200   470.000   714.000   470.000   715.000   510.000   720.000   540.000
GR   7250.000  5600.000  7350.000  6000.000     0.        0.        0.        0.        0.        0.

X1     45.800    12.000   177.000   211.000   830.000   830.000   830.000     0.        0.        0.
GR    740.000     0.      733.500    50.000   730.500   100.000   727.800   150.000   727.100   177.000
GR    [illegible]  [illegible]  730.100   190.000   721.100   200.000   726.600   211.000   727.800   250.000
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RC	0.100	0.100	0.070	0.100	0.100	0.	0.	0.	0.	0.
BT	5.000	540.000	950.000	1110.000	1110.000	1440.000	0.	0.	0.	0.
X1	52.200	16.000	166.000	214.000	640.000	640.000	640.000	0.	0.	0.
GR	755.000	0.	750.000	40.000	745.000	65.000	741.200	100.000	735.900	150.000
GR	734.400	166.000	727.700	195.000	724.700	198.000	724.800	200.000	725.600	202.000
GR	727.400	204.000	735.300	214.000	736.400	250.000	744.900	300.000	747.900	318.000
GR	755.000	370.000	0.	0.	0.	0.	0.	0.	0.	0.
X1	52.600	0.	0.	0.	40.000	40.000	40.000	0.	0.	0.
X3	10.000	0.	0.	0.	0.	0.	0.	730.900	730.900	0.
SB	0.	1.500	2.500	150.000	3.000	0.	28.000	0.500	0.	0.
X1	53.600	22.000	245.800	251.200	100.000	100.000	100.000	0.	0.	0.
X2	0.	0.	1.000	730.900	744.200	0.	0.	0.	0.	0.
X3	10.000	0.	0.	0.	0.	0.	0.	744.700	744.700	0.
GR	755.000	0.	750.000	40.000	745.000	65.000	741.200	100.000	735.900	150.000
GR	734.400	166.000	727.700	195.000	724.700	198.000	724.800	200.000	725.600	202.000
GR	727.400	204.000	735.300	214.000	736.100	240.000	729.700	245.800	728.900	246.100
GR	728.500	250.000	728.900	250.800	729.700	251.200	744.900	260.000	733.000	318.000
GR	755.000	370.000	755.000	500.000	0.	0.	0.	0.	0.	0.
X1	54.200	19.000	193.000	208.000	40.000	40.000	40.000	0.	0.	0.
GR	755.000	0.	750.000	95.000	747.200	100.000	739.700	150.000	735.200	193.000
GR	729.300	198.000	728.700	200.000	729.100	202.000	734.000	208.000	735.000	250.000
GR	736.000	263.000	730.100	265.000	730.100	266.000	730.100	267.000	735.100	271.000
GR	737.400	300.000	740.700	350.000	747.100	400.000	755.000	500.000	0.	0.
X1	59.000	12.000	91.000	109.000	480.000	480.000	480.000	0.	0.	0.
GR	763.600	0.	761.400	28.000	754.000	50.000	746.300	91.000	738.400	98.000
GR	738.400	100.000	738.600	102.000	744.100	109.000	746.500	137.000	750.000	150.000
GR	759.700	185.000	761.400	200.000	0.	0.	0.	0.	0.	0.
EJ	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

RC	0.100	0.100	0.070	0.100	0.100	0.	0.	0.	0.	0.
BT	5.000	540.000	950.000	1110.000	1110.000	1440.000	0.	0.	0.	0.
X1	52.200	16.000	166.000	214.000	640.000	640.000	640.000	0.	0.	0.
GR	755.000	0.	750.000	40.000	745.000	65.000	741.200	100.000	735.900	150.000
GR	734.400	166.000	727.700	195.000	724.700	198.000	724.800	200.000	725.600	202.000
GR	727.400	204.000	735.300	214.000	736.400	250.000	744.900	300.000	747.900	318.000
GR	755.000	370.000	0.	0.	0.	0.	0.	0.	0.	0.
X1	52.600	0.	0.	0.	40.000	40.000	40.000	0.	0.	0.
X3	10.000	0.	0.	0.	0.	0.	0.	730.900	730.900	0.
SB	0.	1.500	2.500	150.000	3.000	0.	28.000	0.500	0.	0.
X1	53.600	22.000	245.800	251.200	100.000	100.000	100.000	0.	0.	0.
X2	0.	0.	1.000	730.900	744.200	0.	0.	0.	0.	0.
X3	10.000	0.	0.	0.	0.	0.	0.	744.700	744.700	0.
GR	755.000	0.	750.000	40.000	745.000	65.000	741.200	100.000	735.900	150.000
GR	734.400	166.000	727.700	195.000	724.700	198.000	724.800	200.000	725.600	202.000
GR	727.400	204.000	735.300	214.000	736.100	240.000	729.700	245.800	728.900	246.100
GR	728.500	250.000	728.900	250.800	729.700	251.200	744.900	260.000	733.000	318.000
GR	755.000	370.000	755.000	500.000	0.	0.	0.	0.	0.	0.
X1	54.200	19.000	193.000	208.000	40.000	40.000	40.000	0.	0.	0.
GR	755.000	0.	750.000	95.000	747.200	100.000	739.700	150.000	735.200	193.000
GR	729.300	198.000	728.700	200.000	729.100	202.000	734.000	208.000	735.000	250.000
GR	736.000	263.000	730.100	265.000	730.100	266.000	730.100	267.000	735.100	271.000
GR	737.400	300.000	740.700	350.000	747.100	400.000	755.000	500.000	0.	0.
X1	59.000	12.000	91.000	109.000	480.000	480.000	480.000	0.	0.	0.
GR	763.600	0.	761.400	28.000	754.000	50.000	746.300	91.000	738.400	98.000
GR	738.400	100.000	738.600	102.000	744.100	109.000	746.500	137.000	750.000	150.000
GR	759.700	185.000	761.400	200.000	0.	0.	0.	0.	0.	0.
EJ	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

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HEC2 VERSION UPDATED JAN 1976
ERROR CORRECTION 01,02,03,04,05,06,07,08,09
MODIFICATIONS 52,53,54,55,56,57,58
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T1      GASTONIA N C
T2      FLOOD INSURANCE
T3      TRIB B-4        100-YR Q        FLOODWAY

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

        0.        5.        0.        0.  0.            0.        0.        0.  690.300     0.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

       15.000     0.        0.        0.        0.        0.        0.        0.        0.        0.
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SUMMARY PRINTOUT FOR MULTIPLE PROFILES

THIS S-4 100-YR Q

	SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	TQ	FG	TOPWID	STENCL	STENCR	VCH
	0.	0.	0.	0.	686.00	840.00	695.30	798.68	695.30	434.40	0.	0.	0.74
	0.	0.	0.	0.	686.00	840.00	690.72	42.60	691.23	180.26	162.84	400.90	7.75
	7.50	750.00	0.	0.	692.00	840.00	696.58	40.26	697.11	201.33	0.	0.	7.97
A	7.50	750.00	0.	0.	692.00	840.00	700.29	108.70	700.51	43.29	201.71	245.00	4.28
	22.70	1520.00	0.	0.	701.60	840.00	709.19	147.89	709.27	188.39	0.	0.	3.20
B	22.70	1520.00	0.	0.	701.60	840.00	709.31	109.72	709.50	76.17	188.02	264.19	4.37
	29.00	650.00	0.	0.	705.50	840.00	712.32	91.48	712.51	171.76	0.	0.	4.71
	29.00	650.00	0.	0.	705.50	840.00	713.47	98.65	713.76	48.52	206.80	255.32	5.01
	35.00	600.00	0.	0.	710.00	840.00	716.20	118.32	716.36	144.38	0.	0.	3.60
C	35.00	600.00	0.	0.	710.00	840.00	717.19	115.68	717.45	40.00	350.00	390.00	4.04
	36.00	100.00	0.	0.	711.00	840.00	716.76	70.65	717.25	40.00	0.	0.	5.58
	36.00	100.00	0.	0.	711.00	840.00	717.76	100.35	718.06	40.00	350.00	390.00	4.42
	37.00	100.00	0.	0.	712.20	840.00	718.12	75.69	718.57	40.00	0.	0.	5.35
	37.00	100.00	0.	0.	712.20	840.00	719.12	106.01	719.40	40.00	350.00	390.00	4.27
	37.50	50.00	0.	0.	712.20	840.00	718.71	242.47	718.75	180.31	0.	0.	2.08
D	37.50	50.00	0.	0.	712.20	840.00	719.48	231.44	719.55	77.10	417.03	494.13	2.38
	45.80	830.00	0.	0.	720.10	840.00	724.57	33.24	726.13	27.27	0.	0.	10.03
	45.80	830.00	0.	0.	720.10	840.00	724.57	33.24	726.13	27.27	177.00	211.00	10.03
	52.20	640.00	0.	0.	724.70	1110.00	734.92	130.93	735.28	53.11	0.	0.	4.80
E	52.20	640.00	0.	0.	724.70	1110.00	734.94	130.77	735.30	47.55	166.00	214.00	4.79
	52.60	40.00	0.	0.	724.70	1110.00	735.23	144.66	735.55	56.85	0.	0.	4.50
	52.60	40.00	0.	0.	724.70	1110.00	735.25	143.86	735.56	47.95	166.00	214.00	4.49
	53.60	100.00	0.	0.	724.70	1110.00	745.45	1592.45	745.45	284.71	0.	0.	0.85
	53.60	100.00	0.	0.	724.70	1110.00	745.47	1380.66	745.48	188.95	121.47	310.42	0.98
	54.20	40.00	0.	0.	728.70	1110.00	745.45	1317.47	745.46	275.47	0.	0.	0.88
F	54.20	40.00	0.	0.	728.70	1110.00	745.47	1168.80	745.48	164.70	163.63	328.33	1.00
	59.00	480.00	0.	0.	738.40	1110.00	746.37	56.05	748.00	44.86	0.	0.	10.68
G	59.00	480.00	0.	0.	738.40	1110.00	745.95	45.22	748.45	17.69	91.00	109.00	12.69

	SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
	0.	840.000	695.300	0.	0.	0.	434.400	0.	0.
	0.	840.000	690.720	~~-4.580~~	0.	0.	180.256	254.144	0.
	7.500	840.000	696.580	0.	1.280	0.	201.330	0.	750.000
A	7.500	840.000	700.285	3.705	9.565	0.	43.286	158.044	750.000
	22.700	840.000	709.192	0.	12.612	0.	188.389	0.	1520.000
B	22.700	840.000	709.309	0.117	9.023	0.	76.171	112.218	1520.000
	29.000	840.000	712.316	0.	3.124	0.	171.759	0.	650.000
	29.000	840.000	713.469	1.153	4.160	0.	48.517	123.242	650.000

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

THIS S-4 100-YR Q

	SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	TQ	FG	TOPWID	STENCL	STENCR	VCH
	0.	0.	0.	0.	686.00	840.00	695.30	798.68	695.30	434.40	0.	0.	0.74
	0.	0.	0.	0.	686.00	840.00	690.72	42.60	691.23	180.26	162.84	400.90	7.75
	7.50	750.00	0.	0.	692.00	840.00	696.58	40.26	697.11	201.33	0.	0.	7.97
A	7.50	750.00	0.	0.	692.00	840.00	700.29	108.70	700.51	43.29	201.71	245.00	4.28
	22.70	1520.00	0.	0.	701.60	840.00	709.19	147.89	709.27	188.39	0.	0.	3.20
B	22.70	1520.00	0.	0.	701.60	840.00	709.31	109.72	709.50	76.17	188.02	264.19	4.37
	29.00	650.00	0.	0.	705.50	840.00	712.32	91.48	712.51	171.76	0.	0.	4.71
	29.00	650.00	0.	0.	705.50	840.00	713.47	98.65	713.76	48.52	206.80	255.32	5.01
	35.00	600.00	0.	0.	710.00	840.00	716.20	118.32	716.36	144.38	0.	0.	3.60
C	35.00	600.00	0.	0.	710.00	840.00	717.19	115.68	717.45	40.00	350.00	390.00	4.04
	36.00	100.00	0.	0.	711.00	840.00	716.76	70.65	717.25	40.00	0.	0.	5.58
	36.00	100.00	0.	0.	711.00	840.00	717.76	100.35	718.06	40.00	350.00	390.00	4.42
	37.00	100.00	0.	0.	712.20	840.00	718.12	75.69	718.57	40.00	0.	0.	5.35
	37.00	100.00	0.	0.	712.20	840.00	719.12	106.01	719.40	40.00	350.00	390.00	4.27
	37.50	50.00	0.	0.	712.20	840.00	718.71	242.47	718.75	180.31	0.	0.	2.08
D	37.50	50.00	0.	0.	712.20	840.00	719.48	231.44	719.55	77.10	417.03	494.13	2.38
	45.80	830.00	0.	0.	720.10	840.00	724.57	33.24	726.13	27.27	0.	0.	10.03
	45.80	830.00	0.	0.	720.10	840.00	724.57	33.24	726.13	27.27	177.00	211.00	10.03
	52.20	640.00	0.	0.	724.70	1110.00	734.92	130.93	735.28	53.11	0.	0.	4.80
E	52.20	640.00	0.	0.	724.70	1110.00	734.94	130.77	735.30	47.55	166.00	214.00	4.79
	52.60	40.00	0.	0.	724.70	1110.00	735.23	144.66	735.55	56.85	0.	0.	4.50
	52.60	40.00	0.	0.	724.70	1110.00	735.25	143.86	735.56	47.95	166.00	214.00	4.49
	53.60	100.00	0.	0.	724.70	1110.00	745.45	1592.45	745.45	284.71	0.	0.	0.85
	53.60	100.00	0.	0.	724.70	1110.00	745.47	1380.66	745.48	188.95	121.47	310.42	0.98
	54.20	40.00	0.	0.	728.70	1110.00	745.45	1317.47	745.46	275.47	0.	0.	0.88
F	54.20	40.00	0.	0.	728.70	1110.00	745.47	1168.80	745.48	164.70	163.63	328.33	1.00
	59.00	480.00	0.	0.	738.40	1110.00	746.37	56.05	748.00	44.86	0.	0.	10.68
G	59.00	480.00	0.	0.	738.40	1110.00	745.95	45.22	748.45	17.69	91.00	109.00	12.69

	SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
	0.	840.000	695.300	0.	0.	0.	434.400	0.	0.
	0.	840.000	690.720	~~-4.580~~	0.	0.	180.256	254.144	0.
	7.500	840.000	696.580	0.	1.280	0.	201.330	0.	750.000
A	7.500	840.000	700.285	3.705	9.565	0.	43.286	158.044	750.000
	22.700	840.000	709.192	0.	12.612	0.	188.389	0.	1520.000
B	22.700	840.000	709.309	0.117	9.023	0.	76.171	112.218	1520.000
	29.000	840.000	712.316	0.	3.124	0.	171.759	0.	650.000
	29.000	840.000	713.469	1.153	4.160	0.	48.517	123.242	650.000

35.000	840.000	716.204	0.	3.888	0.	144.375	0.	600.000
35.000	840.000	717.192	0.988	3.723	0.	40.001	104.374	600.000
36.000	840.000	716.764	0.	0.560	0.	40.000	0.	100.000
36.000	840.000	717.762	0.998	0.570	0.	40.000	0.	100.000
37.000	840.000	718.125	0.	1.360	0.	40.000	0.	100.000
37.000	840.000	719.122	0.998	1.360	0.	40.000	0.	100.000
37.500	840.000	718.709	0.	0.585	0.	180.310	0.	50.000
37.500	840.000	719.485	0.776	0.362	0.	77.098	103.212	50.000
45.800	840.000	724.568	0.	5.859	0.	27.272	0.	830.000
45.800	840.000	724.568	-0.000	5.084	0.	27.272	0.000	830.000
52.200	1110.000	734.924	0.	10.356	0.	53.108	0.	640.000
52.200	1110.000	734.944	0.019	10.375	0.	47.548	5.560	640.000
52.600	1110.000	735.232	0.	0.308	0.	56.849	0.	40.000
52.600	1110.000	735.252	0.020	0.308	0.	47.950	8.899	40.000
53.600	1110.000	745.451	0.	10.219	0.	284.714	0.	100.000
53.600	1110.000	745.471	0.020	10.219	0.	188.953	95.761	100.000
54.200	1110.000	745.452	0.	0.001	0.	275.472	0.	40.000
54.200	1110.000	745.472	0.020	0.001	0.	164.698	110.774	40.000
59.000	1110.000	746.370	0.	0.918	0.	44.861	0.	480.000
59.000	1110.000	745.949	-0.421	0.477	0.	17.690	27.170	480.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.	0.	22.599	0.
2	4.000	0.174	8.826	-13.773