

NATURALS

OK  
9/21/76

T1 FPMS BR FAYETTEVILLE NC FIS  
T2 10 YR NATURAL  
T3 BIG CROSS CR MOUTH TO GREEN ST

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-1.	6.	-0	-0	003000	-0	-0	-0	34,000	-0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IHW	CHNIM	ITRACE
	1,000	-0	-1,000	-0	-0	-0	-0	-0	-0	-0
J3	-2,000	1,000	43,000	42,000	3,000	10,000	5,000	50,000	4,000	53,000
J3	54,000	26,000	0	201,000	0	0	0	0	0	0
QT	7,000	5500,000	5500,000	5500,000	5500,000	2350,000	4350,000	9500,000	0	0
NC	.120	.120	.060	.200	.400	0	0	0	0	0
ET	-0	0	300,200	9,100	0	0	0	0	490,000	550,000
X1	300,000	10,000	490,000	550,000	0	0	0	0	0	0
GR	75,000	0	70,000	360,000	60,000	380,000	31,000	490,000	21,500	500,000
GR	21,500	540,000	31,000	550,000	60,000	660,000	70,000	680,000	73,500	810,000
ET	-0	0	-0	9,100	0	0	0	0	170,000	228,000
X1	2000,000	10,000	170,000	228,000	1700,000	1700,000	1700,000	0	0	0
GR	70,000	69,000	60,000	88,000	36,000	170,000	28,000	180,000	28,000	216,000
GR	36,000	228,000	60,000	280,000	70,000	289,000	80,000	300,000	90,500	626,000
ET	-0	0	-0	9,100	0	0	0	0	400,000	460,000
X1	3300,000	13,000	400,000	460,000	1300,000	1300,000	1300,000	0	0	0
GR	87,500	0	80,000	319,000	70,000	331,000	60,000	345,000	42,000	400,000
GR	33,200	410,000	33,200	454,000	42,000	460,000	60,000	505,000	70,000	522,000
GR	80,000	538,000	90,000	572,000	91,000	605,000	0	0	0	0
ET	-0	0	-0	9,100	0	0	0	0	243,000	300,000
X1	3550,000	13,000	243,000	300,000	150,000	150,000	150,000	0	0	0
GR	90,000	0	90,000	100,000	80,000	162,000	70,000	172,000	60,000	188,000
GR	43,000	243,000	34,500	250,000	34,500	285,000	43,000	300,000	60,000	360,000
GR	70,000	380,000	80,000	390,000	90,000	420,000	0	0	0	0
ET	-0	0	-0	9,100	0	0	0	0	500,000	793,000
X1	3590,000	20,000	500,000	793,000	40,000	40,000	40,000	0	0	0
GR	93,500	150,000	95,500	500,000	91,000	500,000	86,600	500,000	85,400	521,000
GR	77,900	533,000	52,900	562,000	43,200	585,000	39,800	601,000	35,200	609,000
GR	34,500	625,000	35,000	643,000	40,000	654,000	43,800	670,000	49,800	695,000
GR	70,700	730,000	84,600	763,000	88,500	793,000	91,500	1000,000	90,000	1400,000
SB	1,250	2,040	2,500	0	293,000	10,000	8700,000	0	0	0
ET	-0	0	250,200	9,100	0	0	0	0	500,000	793,000
X1	3650,000	20,000	500,000	793,000	50,000	50,000	50,000	0	0	0
X2	0	0	1,000	88,500	90,000	0	0	0	0	0
BT	6,000	0	92,500	88,500	150,000	93,500	88,500	500,000	95,500	88,500
BT	665,000	94,000	88,500	1000,000	91,500	88,500	1400,000	90,000	88,500	0
GR	93,500	150,000	95,500	500,000	91,000	500,000	86,600	500,000	85,400	521,000
GR	77,900	533,000	52,900	562,000	43,200	585,000	39,800	601,000	35,200	609,000
GR	34,500	625,000	35,000	643,000	40,000	654,000	43,800	670,000	49,800	695,000
GR	70,700	730,000	84,600	763,000	88,500	793,000	91,500	1000,000	90,000	1400,000
GR	70,700	730,000	84,600	763,000	88,500	793,000	91,500	1000,000	90,000	1400,000

PRINTED AT THE UNIVERSITY OF NORTH CAROLINA





BT	500,000	82,000	80,400	700,000	82,000	88,400	800,000	82,000	80,400	930,000
BT	84,000	80,400	1200,000	88,000	80,400	1300,000	92,000	80,400	-0	-0
GR	92,000	0	89,600	200,000	86,000	320,000	82,000	560,000	82,000	700,000
GR	80,400	700,000	77,700	700,000	69,800	716,000	67,600	731,000	62,400	741,000
GR	62,100	754,000	61,800	768,000	68,800	772,000	69,700	779,000	80,400	788,000
GR	82,000	788,000	82,000	840,000	84,000	930,000	86,000	1000,000	88,000	1060,000
GR	90,000	1200,000	92,000	1300,000	-0	-0	-0	-0	-0	-0
ET	-0	-0	-0	9,100	-0	-0	-0	-0	1,000	120,000

X1	12000,000	8,000	45,000	85,000	30,000	30,000	30,000	0	0	-0
GR	80,000	0	70,000	28,000	69,000	45,000	62,800	50,000	62,800	77,000
GR	69,000	85,000	70,000	100,000	80,000	120,000	-0	-0	-0	-0
ET	-0	-0	-0	9,100	-0	-0	-0	-0	150,000	400,000

X1	12700,000	12,000	290,000	330,000	700,000	700,000	700,000	0	0	-0
GR	80,000	29,000	80,000	53,000	80,000	80,000	80,000	140,000	70,000	240,000
GR	69,000	290,000	65,800	295,000	67,800	320,000	69,000	330,000	70,000	380,000
GR	80,000	480,000	90,000	526,000	-0	-0	-0	-0	-0	-0
ET	-0	-0	-0	9,100	-0	-0	-0	-0	294,000	348,000

X1	13220,000	10,000	308,000	335,000	520,000	520,000	520,000	0	0	-0
GR	85,000	0	80,000	294,000	70,000	305,000	70,000	308,000	67,000	310,000
GR	67,000	331,000	70,000	335,000	70,000	340,000	80,000	348,000	90,000	526,000
ET	-0	-0	-0	9,100	-0	-0	-0	-0	1100,000	1130,000

X1	13250,000	14,000	1100,000	1130,000	175,000	175,000	175,000	0	0	-0
GR	100,200	0	94,500	370,000	91,400	570,000	89,200	670,000	89,000	800,000
GR	87,800	936,000	88,000	1100,000	82,000	1100,000	68,500	1100,000	68,500	1130,000
GR	82,000	1130,000	88,000	1130,000	88,200	1220,000	102,400	1668,000	-0	-0
SH	1,250	2,040	2,500	0	30,000	1,000	400,000	0	0	0
ET	-0	-0	-0	9,100	-0	-0	-0	-0	1100,000	1130,000

X1	13300,000	14,000	1100,000	1130,000	20,000	20,000	20,000	0	0	-0
X2	0	0	1,000	82,000	87,700	-0	-0	-0	-0	-0
BT	8,000	0	100,200	82,000	370,000	94,500	82,000	570,000	91,400	82,000
BT	670,000	89,200	82,000	800,000	89,000	82,000	936,000	87,800	82,000	1220,000
BT	88,200	82,000	1668,000	102,400	82,000	-0	-0	-0	-0	-0
GR	100,200	0	94,500	370,000	91,400	570,000	89,200	670,000	89,000	800,000
GR	87,800	936,000	88,000	1100,000	82,000	1100,000	68,500	1100,000	68,500	1130,000
GR	82,000	1130,000	88,000	1130,000	88,200	1220,000	102,400	1668,000	-0	-0
EJ	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0

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 INTERACTIVE HEC2 VERSION UPDATED SEPT 1976  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09,10  
 MODIFICATIONS 50,51,52,53,54,55,56,57,58,59  
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T1 FPMS BR FAYETTEVILLE NC FIS  
 T2 50 YR NATURAL  
 T3 BIG CROSS CR MOUTH TO GREEN ST

J1	ICHECK	IND	NINV	IDIR	STRT	METRIC	HVINS	0	WSEL	FQ
	-10.	7.	-0	-0	.003000	-0	-0	-0	35.000	-0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	-0	-1.000	-0	-0	-0	-0	-0	-0	-0

\*PROF 2

CCHV= .200 CEHV= .400

\*SECNO 300,000

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	QLOSS	BANK	ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	
300.00	12.90	34.40	0	35.00	35.02	.62	0	0	31.00	
4350.	21.	4308.	21.	22.	679.	22.	0	0	31.00	
0	.95	6.35	.95	.120	.060	.120	0	21.50	477.12	
.003031	0	0	0	0	0	3	0	85.77	562.88	

\*SECNO 2000,000

2000.00	12.10	40.10	0	0	40.85	.75	5.79	.05	36.00	
4350.	35.	4294.	21.	29.	614.	18.	27.	3.	36.00	
.07	1.21	6.99	1.16	.120	.060	.120	.060	28.00	155.98	
.003849	1700.	1700.	1700.	2	0	1	0	80.91	236.89	

\*SECNO 3300,000

3300.00	11.87	45.07	0	0	45.78	.70	4.91	.01	42.00	
4350.	14.	4325.	11.	14.	642.	12.	47.	6.	42.00	
.12	.97	6.74	.96	.120	.060	.120	.060	33.20	390.62	
.003709	1300.	1300.	1300.	2	0	1	0	77.06	467.67	

\*SECNO 3550,000

3550.00	11.10	45.60	0	0	46.59	.99	.70	.12	43.00	
4350.	12.	4325.	13.	11.	539.	12.	49.	6.	43.00	
.13	1.11	8.02	1.12	.120	.060	.120	.060	34.50	234.60	
.006026	150.	150.	150.	2	0	1	0	74.97	309.17	

\*SECNO 3590,000

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	QLOSS	BANK	ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	

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 INTERACTIVE HEC2 VERSION UPDATED SEPT 1976  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09,10  
 MODIFICATIONS 50,51,52,53,54,55,56,57,58,59  
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T1 FPMS BR FAYETTEVILLE NC FIS  
 T2 100 YR NATURAL  
 T3 BIG CROSS CR MOUTH TO GREEN ST

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	0	WSEL	FO
	-10.	2.	=0	-0	.003000	=0	-0	-0	36.000	-0
J2	NPROF	IPLDT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3.000	-0	=1.000	=0	-0	-0	-0	-0	-0	-0

\*PROF 3

CCHV= .200 CEHV= .400

\*SECNO 300,000

SECNO	DEPTH	WSEL	CHWS	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
0	OLOB	QCH	OROB	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	
300.00	14.50	36.00	0	36.00	36.73	.73	0	0	31.00	
5500.	58.	5383.	58.	47.	775.	47.	0	0	31.00	
0	1.23	6.95	1.23	.120	.060	.120	0	21.50	471.03	
.003042	0	0	0	0	0	1	0	97.93	568.97	

\*SECNO 2000,000

2000.00	13.67	41.67	0	0	42.55	.88	5.76	.06	36.00	
5500.	82.	5368.	50.	55.	705.	35.	32.	4.	36.00	
.06	1.49	7.62	1.43	.120	.060	.120	.060	28.00	150.63	
.003797	1700.	1700.	1700.	2	0	1	0	89.66	240.29	

\*SECNO 3300,000

3300.00	13.42	46.62	0	0	47.45	.84	4.89	.01	42.00	
5500.	41.	5425.	33.	32.	734.	27.	56.	6.	42.00	
.11	1.28	7.39	1.26	.120	.060	.120	.060	33.20	385.92	
.003730	1300.	1300.	1300.	2	0	1	0	85.60	471.52	

\*SECNO 3550,000

3550.00	12.62	47.12	0	0	48.26	1.15	.69	.12	43.00	
5500.	40.	5415.	44.	27.	626.	30.	59.	7.	43.00	
.12	1.47	8.66	1.48	.120	.060	.120	.060	34.50	229.68	
.005752	150.	150.	150.	2	0	1	0	84.85	314.53	

\*SECNO 3590,000

3301 HV CHANGED MORE THAN HVINS

MICROSOFT EXCEL 2003



SUMMARY PRINTOUT

BIG CROSS CR MOUTH TO GR

SECNO	CWSEL	Q	ELMIN	EG	HV	10K+S	DIFWSP	TOPWID	SSTA	ENDST	VCH
300.00	30.98	2350.00	21.50	31.36	.38	29.89	0	59.95	490.02	549.98	4.9
300.00	34.40	4350.00	21.50	35.02	.62	30.31	3.42	85.77	477.12	562.88	6.3
300.00	36.00	5500.00	21.50	36.73	.73	30.42	1.60	97.93	471.03	568.97	6.9
300.00	40.61	9500.00	21.50	41.63	1.03	29.69	4.61	132.87	453.56	586.44	8.4
2000.00	36.78	2350.00	28.00	37.26	.48	40.26	0	62.41	167.30	229.71	5.5
2000.00	40.10	4350.00	28.00	40.85	.75	38.49	3.32	80.91	155.98	236.89	6.9
2000.00	41.67	5500.00	28.00	42.55	.88	37.97	1.57	89.66	150.63	240.29	7.6
2000.00	46.09	9500.00	28.00	47.34	1.25	37.05	4.42	114.35	135.52	249.87	9.2
3300.00	41.81	2350.00	33.20	42.24	.43	36.36	0	59.66	400.21	459.87	5.2
3300.00	45.07	4350.00	33.20	45.78	.70	37.09	3.26	77.06	390.62	467.67	6.7
3300.00	46.62	5500.00	33.20	47.45	.84	37.30	1.54	85.60	385.92	471.52	7.3
3300.00	50.97	9500.00	33.20	52.20	1.23	37.60	4.36	109.84	372.59	482.43	9.0
3550.00	42.39	2350.00	34.50	43.07	.67	67.56	0	55.41	243.50	298.92	6.5
3550.00	45.60	4350.00	34.50	46.59	.99	60.26	3.20	74.57	234.60	309.17	8.0
3550.00	47.12	5500.00	34.50	48.26	1.15	57.52	1.52	84.85	229.68	314.53	8.6
3550.00	51.44	9500.00	34.50	52.99	1.55	51.99	4.32	114.08	215.70	329.78	10.2
3590.00	42.86	2350.00	34.50	43.36	.50	60.34	0	79.48	586.58	666.06	5.6
3590.00	46.34	4350.00	34.50	46.89	.54	43.85	3.48	103.08	577.54	680.61	5.9
3590.00	48.01	5500.00	34.50	48.57	.56	38.54	1.66	113.97	573.59	687.56	6.0
3590.00	52.71	9500.00	34.50	53.32	.61	27.97	4.70	137.42	562.45	699.87	6.2
3650.00	42.91	2350.00	34.50	43.40	.49	58.87	0	79.93	586.34	666.27	5.6
3650.00	46.39	4350.00	34.50	46.93	.54	43.10	3.48	103.37	577.43	680.80	5.8
3650.00	48.06	5500.00	34.50	48.61	.55	37.98	1.66	114.25	573.48	687.74	5.9
3650.00	52.76	9500.00	34.50	53.37	.61	27.59	4.70	137.63	562.33	699.96	6.2
3700.00	43.12	2350.00	34.00	43.70	.58	46.95	0	60.47	169.83	230.30	6.1
3700.00	46.40	4350.00	34.00	47.30	.90	46.47	3.28	91.08	154.70	245.79	7.7
3700.00	47.98	5500.00	34.00	49.00	1.02	45.22	1.58	105.85	147.41	253.26	8.3
3700.00	52.52	9500.00	34.00	53.80	1.28	40.76	4.54	148.20	126.48	274.68	9.7
4500.00	46.72	2350.00	37.50	47.25	.53	41.77	0	60.20	594.40	654.60	5.8
4500.00	50.03	4350.00	37.50	50.87	.84	42.80	3.31	88.12	579.07	667.18	7.4
4500.00	51.56	5500.00	37.50	52.54	.99	43.15	1.53	100.93	572.03	672.96	8.1
4500.00	55.83	9500.00	37.50	57.17	1.35	42.88	4.27	136.89	552.28	689.17	9.8
6500.00	53.10	2350.00	42.50	53.47	.37	23.84	0	61.20	509.17	570.37	4.8
6500.00	56.86	4350.00	42.50	57.47	.61	25.86	3.76	81.25	498.73	579.97	6.3
6500.00	58.57	5500.00	42.50	59.30	.73	26.79	1.71	90.36	493.98	584.34	7.0
6500.00	63.16	9500.00	42.50	64.23	1.07	29.14	4.59	113.76	477.39	591.15	8.7
8200.00	57.70	2350.00	47.30	58.15	.45	31.63	0	133.71	442.76	576.47	5.4
8200.00	61.29	4350.00	47.30	61.72	.42	23.74	3.60	261.47	383.71	645.18	5.8
8200.00	62.92	5500.00	47.30	63.29	.38	20.08	1.62	269.59	382.08	651.67	5.8
8200.00	67.47	9500.00	47.30	67.79	.33	14.65	4.55	292.34	377.53	669.87	5.9
9100.00	60.36	2350.00	49.50	60.73	.38	25.94	0	165.21	256.64	421.86	5.1
9100.00	63.47	4350.00	49.50	63.90	.43	24.78	3.12	184.53	244.80	429.33	5.9
9100.00	64.86	5500.00	49.50	65.32	.46	24.54	1.39	193.13	239.53	432.67	6.3
9100.00	68.97	9500.00	49.50	69.49	.52	22.74	4.11	218.64	223.90	442.54	7.1





SECNO	CWSEL	Q	ELMIN	FG	HV	10K*S	DIFWSP	TOPWID	SSTA	ENDST	VCH
11970.00	71.02	1850.00	61.80	71.43	.40	40.47	0	66.59	713.52	780.11	5.1
11970.00	73.96	3400.00	61.80	74.57	.60	37.27	2.94	75.02	707.57	782.59	6.3
11970.00	75.36	4350.00	61.80	76.09	.72	37.58	1.40	79.03	704.73	783.76	6.9
11970.00	79.02	7450.00	61.80	80.11	1.09	39.37	3.66	86.84	700.00	786.84	8.6
12000.00	71.06	1850.00	62.80	71.63	.57	51.80	0	77.08	25.03	102.12	6.1
12000.00	73.99	3400.00	62.80	74.76	.76	47.50	2.93	91.17	16.82	107.99	7.4
12000.00	75.40	4350.00	62.80	76.27	.87	46.85	1.41	97.93	12.87	110.80	8.0
12000.00	79.11	7450.00	62.80	80.26	1.15	45.91	3.71	115.75	2.48	118.23	9.5
12700.00	73.64	1850.00	65.80	73.81	.16	19.48	0	212.87	203.57	416.43	4.0
12700.00	76.44	3400.00	65.80	76.61	.17	15.11	2.79	268.60	175.70	444.30	4.3
12700.00	77.85	4350.00	65.80	78.02	.17	13.67	1.41	296.89	161.56	458.44	4.5
12700.00	81.63	7450.00	65.80	81.80	.17	10.44	3.78	458.48	29.00	487.48	4.8
13220.00	75.00	1850.00	67.00	75.94	.94	80.55	0	44.50	299.50	344.00	8.1
13220.00	77.15	3400.00	67.00	78.94	1.79	112.73	2.15	48.58	297.14	345.72	11.3
13220.00	78.18	4350.00	67.00	80.50	2.31	128.96	1.03	50.55	296.00	346.55	12.9
13220.00	80.68	7450.00	67.00	84.77	4.09	178.02	2.50	106.51	253.69	360.20	17.4
13250.00	76.64	1850.00	68.50	77.53	.89	101.95	0	30.00	1100.00	1130.00	7.5
13250.00	79.57	3400.00	68.50	81.20	1.63	144.87	2.93	30.00	1100.00	1130.00	10.2
13250.00	81.03	4350.00	68.50	83.11	2.08	168.61	1.46	30.00	1100.00	1130.00	11.5
13250.00	84.92	7450.00	68.50	88.47	3.55	239.31	3.89	30.00	1100.00	1130.00	15.1
13300.00	76.77	1850.00	68.50	77.63	.86	97.39	0	30.00	1100.00	1130.00	7.4
13300.00	79.86	3400.00	68.50	81.40	1.55	134.86	3.09	30.00	1100.00	1130.00	9.9
13300.00	83.28	4350.00	68.50	84.78	1.49	107.82	3.43	30.00	1100.00	1130.00	9.8
13300.00	86.99	7450.00	68.50	89.79	2.80	175.58	3.70	30.00	1100.00	1130.00	13.4

FLOOD INSURANCE ZONE DATA FOR BIG CROSS CR MOUTH TO GR

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND		
		10'	20'	0.2'
300.000	0	-5.0	-1.6	4.6
2000.000	1700.	-4.9	-1.6	4.4
3300.000	3000.	-4.8	-1.5	4.4
3550.000	3150.	-4.7	-1.5	4.3
3590.000	3190.	-5.1	-1.7	4.7
3650.000	3240.	-5.1	-1.7	4.7
3700.000	3290.	-4.9	-1.6	4.5
4500.000	4090.	-4.8	-1.5	4.3
6500.000	6090.	-5.5	-1.7	4.6
8200.000	7790.	-5.2	-1.6	4.6
9100.000	8690.	-4.5	-1.4	4.1
9130.000	8720.	-4.4	-1.3	4.0
9180.000	8750.	-4.4	-1.3	4.0
9210.000	8780.	-4.7	-1.4	4.3
9900.000	9470.	-3.9	-1.3	3.8
10400.000	9970.	-4.0	-1.3	3.7
10420.000	9990.	-4.0	-1.3	3.6
10480.000	10020.	-4.0	-1.3	4.2
10500.000	10040.	-4.1	-1.3	4.3
11100.000	10640.	-4.0	-1.3	3.8
11900.000	11440.	-4.3	-1.4	3.7
11930.000	11470.	-4.3	-1.4	3.6
11970.000	11490.	-4.3	-1.4	3.7
12000.000	11520.	-4.3	-1.4	3.7
12700.000	12220.	-4.2	-1.4	3.8
13220.000	12740.	-3.2	-1.0	2.5
13250.000	12915.	-4.4	-1.5	3.9
13300.000	12935.	-6.5	-3.4	3.7
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WEIGHTED AVG FOR REACH		-4.7	-1.5	4.2

FHF FOR THE REACH = 045 WITH 96.0% OF THE REACH WITHIN 1.0 FEET ZONE FOR THE REACH = A 9

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