

HYDRAULIC CROSS-SECTION CHARACTERISTICS

(NO. 0.0. K to No. 74.5 K)

Abbreviations

SOD0 : Manning's Roughness Coefficient

DX : Distance between two sections

H : Water Level

A : Current Area

R : Hydraulic Radius

** CHAMA RIVER **

35.50		36.00		36.50		37.00	
SODO	DX	SODO	DX	SODO	DX	SODO	DX
0.03000	250.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
23.99	0.0	23.92	0.0	24.01	0.0	24.87	0.0
24.00	0.0	24.00	0.30	24.50	10.30	25.00	1.30
24.50	28.90	0.37	16.30	25.00	33.60	25.50	32.50
25.00	69.00	0.84	51.90	25.50	60.20	26.00	74.30
25.18	83.80	1.00	92.00	26.00	88.90	26.50	117.50
25.50	111.10	1.25	125.20	26.05	91.90	26.68	133.60
26.00	158.50	1.57	135.80	26.50	118.90	27.00	161.60
26.50	208.90	2.06	187.30	27.00	149.00	27.50	205.90
27.00	259.30	2.56	246.30	27.50	179.00	28.00	250.40
27.50	309.70	3.06	310.40	28.00	209.10	28.50	294.90
28.00	360.10	3.56	374.60	28.50	239.10	29.00	339.40
28.50	410.50	4.05	438.90	29.00	269.20	29.50	383.80
29.00	460.90	4.55	503.10	29.50	299.20	30.00	428.30
R		R		R		R	
0.0		0.0		0.0		0.0	
0.00		0.04		0.04		0.27	
0.37		0.30		0.30		0.66	
0.84		0.66		0.66		1.08	
1.00		1.12		1.12		1.48	
1.25		1.35		1.35		1.52	
1.57		1.42		1.42		1.96	
2.06		1.69		1.69		2.45	
2.56		1.96		1.96		2.95	
3.06		2.41		2.41		3.44	
3.56		2.91		2.91		3.94	
4.05		3.41		3.41		4.43	
4.55		3.90		3.90		4.93	

** CHAMA RIVER **

37.50		38.00		38.50		39.00	
SODO	DX	SODO	DX	SODO	DX	SODO	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
25.46	0.0	25.93	0.0	26.63	0.0	26.76	0.0
25.50	0.20	0.02	0.50	27.00	13.90	27.00	3.60
26.00	23.10	0.38	26.70	27.50	64.30	27.50	27.70
26.50	55.30	0.82	69.20	28.00	137.70	28.00	56.90
26.63	64.20	0.93	111.90	28.07	148.20	28.33	77.10
27.00	89.60	1.29	138.80	28.50	211.80	28.50	87.30
27.50	124.40	1.76	159.10	29.00	286.20	29.00	118.40
28.00	159.70	2.23	198.40	29.50	360.80	29.50	149.80
28.50	195.10	2.73	241.70	30.00	435.40	30.00	181.30
29.00	230.60	3.22	285.00	30.50	510.00	30.50	212.70
29.50	266.00	3.72	328.30	31.00	584.60	31.00	244.10
30.00	301.50	4.21	371.60	31.50	659.20	31.50	275.50
30.50	337.00	4.71	414.90	32.00	733.80	32.00	306.90
R		R		R		R	
0.0		0.0		0.0		0.0	
0.02		0.03		0.22		0.12	
0.38		0.32		0.46		0.48	
0.82		0.80		0.93		0.95	
0.93		1.28		1.00		1.25	
1.29		1.58		1.40		1.40	
1.76		1.76		1.90		1.87	
2.23		2.25		2.40		2.36	
2.73		2.74		2.89		2.86	
3.22		3.23		3.39		3.36	
3.72		3.72		3.89		3.85	
4.21		4.21		4.38		4.35	
4.71		4.70		4.88		4.84	

** CHAMA RIVER **

39.50		40.00		41.50		42.00	
SDDO	DX	SDDO	DX	SDDO	DX	SDDO	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
27.61	0.0	28.35	0.0	28.13	0.0	28.11	0.0
28.00	17.00	28.50	0.40	29.00	24.50	29.00	19.10
28.50	53.90	29.00	12.40	29.50	72.50	29.50	45.60
28.71	73.80	29.50	41.50	30.00	125.00	30.00	95.50
29.00	105.10	29.80	60.30	30.00	125.20	30.08	104.60
29.50	161.00	30.00	72.70	30.50	183.20	30.50	159.80
30.00	217.00	30.50	104.40	31.00	246.70	31.00	225.50
30.50	273.00	31.00	136.10	31.50	314.70	31.50	291.30
31.00	328.90	31.50	167.80	32.00	383.10	32.00	357.10
31.50	384.90	32.00	199.50	32.50	451.50	32.50	422.80
32.00	440.90	32.50	231.20	33.00	520.00	33.00	488.60
32.50	496.80	33.00	262.90	33.50	588.40	33.50	554.40
33.00	552.80	33.50	294.60	34.00	656.80	34.00	620.20
R	R	R	R	R	R	R	R
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.29	0.07	0.07	0.07	0.32	0.32	0.32	0.46
0.61	0.26	0.26	0.26	0.71	0.71	0.71	0.56
0.73	0.68	0.68	0.68	1.13	1.13	1.13	0.81
0.94	0.95	0.95	0.95	1.50	1.50	1.50	0.85
1.44	1.14	1.14	1.14	1.86	1.86	1.86	1.21
1.93	1.63	1.63	1.63	2.29	2.29	2.29	1.71
2.43	2.13	2.13	2.13	2.79	2.79	2.79	2.21
2.93	2.63	2.63	2.63	3.29	3.29	3.29	2.71
3.43	3.12	3.12	3.12	3.79	3.79	3.79	3.21
3.93	3.62	3.62	3.62	4.29	4.29	4.29	3.71
4.43	4.12	4.12	4.12	4.79	4.79	4.79	4.21
4.93	4.61	4.61	4.61	5.29	5.29	5.29	4.71

** CHAMA RIVER **

42.50		43.50		44.00	
SDDO	DX	SDDO	DX	SDDO	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A
28.71	0.0	28.89	0.0	30.54	0.0
29.00	3.80	29.00	0.10	31.00	29.10
29.50	26.30	29.50	4.40	31.50	67.00
30.00	53.90	30.00	19.50	31.50	67.50
30.50	82.40	30.50	47.50	32.00	106.70
30.52	83.40	31.00	76.40	32.50	146.50
31.00	111.50	31.36	97.70	33.00	186.20
31.50	140.60	31.50	106.00	33.50	226.00
32.00	169.80	32.00	136.40	34.00	265.70
32.50	199.00	32.50	167.30	34.50	305.50
33.00	228.20	33.00	198.80	35.00	345.20
33.50	257.30	33.50	230.90	35.50	385.00
34.00	286.50	34.00	263.50	36.00	424.70
R	R	R	R	R	R
0.0	0.0	0.0	0.0	0.0	0.0
0.15	0.48	0.05	0.05	0.39	0.39
0.48	0.95	0.30	0.30	0.85	0.85
0.95	1.41	0.37	0.37	1.34	1.34
1.41	1.89	0.82	0.82	1.83	1.83
1.89	2.38	1.28	1.28	2.33	2.33
2.38	2.87	1.60	1.60	2.83	2.83
2.87	3.37	2.17	2.17	3.33	3.33
3.37	3.86	2.61	2.61	3.83	3.83
3.86	4.35	3.04	3.04	4.32	4.32
4.35	4.85	3.47	3.47	4.82	4.82
4.85	5.32	3.92	3.92	5.32	5.32

** CHAMA RIVER **

44.50		45.00		45.50		46.00	
SDD	DX	SDD	DX	SDD	DX	SDD	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
30.68	0.0	31.41	0.0	32.38	0.0	32.25	0.0
31.00	3.10	31.50	0.70	32.50	1.00	32.50	0.70
31.50	20.70	32.00	23.40	33.00	32.20	33.00	6.60
32.00	69.50	32.50	78.30	33.50	71.00	33.50	20.40
32.50	146.00	33.00	175.70	33.75	91.00	34.00	0.67
32.79	190.90	33.19	212.60	34.00	110.90	34.00	107.90
33.00	224.70	33.50	274.70	34.50	153.20	34.50	126.50
33.50	304.30	34.00	374.00	35.00	198.80	35.00	181.30
34.00	383.90	34.50	473.30	35.50	247.70	35.50	236.20
34.50	463.50	35.00	572.60	36.00	299.90	36.00	291.00
35.00	543.10	35.50	671.90	36.50	353.40	36.50	345.90
35.50	622.70	36.00	771.20	37.00	407.00	37.00	400.80
36.00	702.30	36.50	870.50	37.50	460.50	37.50	455.60
R	R	R	R	R	R	R	R
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.16	0.16	0.04	0.04	0.06	0.06	0.06	0.06
0.40	0.40	0.35	0.35	0.42	0.42	0.42	0.37
0.46	0.46	0.43	0.43	0.90	0.90	0.90	0.30
0.94	0.94	0.89	0.89	1.13	1.13	1.13	0.98
1.20	1.20	1.07	1.07	1.35	1.35	1.35	1.15
1.40	1.40	1.38	1.38	1.73	1.73	1.73	1.64
1.90	1.90	1.88	1.88	2.09	2.09	2.09	2.14
2.40	2.40	2.38	2.38	2.43	2.43	2.43	2.63
2.90	2.90	2.87	2.87	2.78	2.78	2.78	2.63
3.39	3.39	3.37	3.37	3.28	3.28	3.28	3.13
3.89	3.89	3.87	3.87	3.72	3.72	3.72	3.63
4.39	4.39	4.37	4.37	4.27	4.27	4.27	4.12

** CHAMA RIVER **

46.50		47.00		47.50		48.00	
SDD	DX	SDD	DX	SDD	DX	SDD	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
33.32	0.0	33.98	0.0	34.48	0.0	34.82	0.0
33.50	5.40	34.00	0.0	34.50	0.40	35.00	2.70
34.00	38.60	34.50	19.20	35.00	42.40	35.50	36.50
34.50	84.90	35.00	75.50	35.50	96.30	36.00	81.50
34.91	123.00	35.29	109.50	35.81	130.70	36.27	107.20
35.00	132.00	35.50	133.90	36.00	151.60	36.50	129.90
35.50	179.30	36.00	193.90	36.50	208.00	37.00	179.00
36.00	226.60	36.50	252.20	37.00	285.30	37.50	228.20
36.50	274.00	37.00	311.80	37.50	353.60	38.00	277.30
37.00	321.30	37.50	371.50	38.00	382.70	38.50	326.40
37.50	368.60	38.00	431.10	38.50	441.70	39.00	375.60
38.00	415.90	38.50	490.80	39.00	500.80	39.50	424.70
38.50	463.30	39.00	550.50	39.50	559.80	40.00	473.80
R	R	R	R	R	R	R	R
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.14	0.14	0.01	0.01	0.01	0.01	0.01	0.09
0.42	0.42	0.19	0.19	0.40	0.40	0.40	0.42
0.90	0.90	0.65	0.65	0.88	0.88	0.88	0.86
1.29	1.29	0.93	0.93	1.17	1.17	1.17	1.09
1.38	1.38	1.13	1.13	1.35	1.35	1.35	1.31
1.88	1.88	1.62	1.62	1.82	1.82	1.82	1.81
2.37	2.37	2.10	2.10	2.28	2.28	2.28	2.31
2.87	2.87	2.59	2.59	2.74	2.74	2.74	2.80
3.36	3.36	3.09	3.09	3.22	3.22	3.22	3.30
3.86	3.86	3.59	3.59	3.72	3.72	3.72	3.80
4.35	4.35	4.08	4.08	4.22	4.22	4.22	4.29
4.85	4.85	4.58	4.58	4.72	4.72	4.72	4.79

** CHAMA RIVER **

48.50				49.00				49.50				50.00			
SODD		DX		SODD		DX		SODD		DX		SODD		DX	
0.03000		500.00		0.03000		500.00		0.03000		500.00		0.03000		500.00	
H	R	A	R	H	R	A	R	H	R	A	R	H	R	A	R
35.83	0.0	0.0	0.0	35.30	0.0	0.0	0.0	36.32	0.0	0.0	0.0	37.22	0.0	0.0	0.0
36.00	0.09	1.50	0.09	35.50	1.10	1.10	0.10	37.00	8.10	8.10	0.23	37.50	6.20	6.20	0.15
36.50	0.40	27.90	0.40	36.00	17.60	17.60	0.19	37.50	54.10	54.10	0.42	38.00	43.10	43.10	0.45
36.97	0.82	61.60	0.82	36.50	85.90	85.90	0.52	37.73	85.60	85.60	0.59	38.46	87.60	87.60	0.89
37.00	0.84	63.90	0.84	37.00	179.80	179.80	0.87	38.00	128.30	128.30	0.74	38.50	91.30	91.30	0.93
37.50	1.32	102.10	1.32	37.20	220.30	220.30	1.05	38.50	215.40	215.40	1.22	39.00	140.20	140.20	1.43
38.00	1.82	140.40	1.82	37.50	284.10	284.10	1.35	39.00	304.90	304.90	1.67	39.50	189.10	189.10	1.92
38.50	2.31	178.60	2.31	38.00	388.80	388.80	1.85	39.50	396.50	396.50	2.15	40.00	237.90	237.90	2.42
39.00	2.81	216.90	2.81	38.50	493.40	493.40	2.35	40.00	488.20	488.20	2.65	40.50	286.80	286.80	2.92
39.50	3.31	255.20	3.31	39.00	598.10	598.10	2.85	40.50	579.90	579.90	3.15	41.00	335.70	335.70	3.42
40.00	3.80	293.40	3.80	39.50	702.70	702.70	3.35	41.00	671.60	671.60	3.65	41.50	384.50	384.50	3.92
40.50	4.30	331.70	4.30	40.00	807.40	807.40	3.85	41.50	763.30	763.30	4.15	42.00	433.40	433.40	4.41
41.00	4.79	370.00	4.79	40.50	912.00	912.00	4.34	42.00	855.00	855.00	4.65	42.50	482.30	482.30	4.91

** CHAMA RIVER **

50.50				51.00				51.50				52.00			
SODD		DX		SODD		DX		SODD		DX		SODD		DX	
0.03000		500.00		0.03000		500.00		0.03000		500.00		0.03000		500.00	
H	R	A	R	H	R	A	R	H	R	A	R	H	R	A	R
37.50	0.0	0.0	0.0	38.07	0.0	0.0	0.0	38.55	0.0	0.0	0.0	39.34	0.0	0.0	0.0
38.00	0.27	29.90	0.27	38.50	13.60	13.60	0.25	39.00	10.00	10.00	0.23	39.50	1.10	1.10	0.08
38.50	0.76	86.20	0.76	39.00	46.90	46.90	0.66	39.50	41.10	41.10	0.58	40.00	18.40	18.40	0.36
38.88	1.13	129.70	1.13	39.50	83.20	83.20	1.12	40.00	78.70	78.70	0.99	40.50	49.50	49.50	0.71
39.00	1.24	143.30	1.24	39.50	83.50	83.50	1.12	40.08	85.00	85.00	1.05	40.63	58.60	58.60	0.82
39.50	1.73	200.70	1.73	40.00	120.30	120.30	1.62	40.50	119.50	119.50	1.45	41.00	85.10	85.10	1.19
40.00	2.23	258.10	2.23	40.50	157.50	157.50	2.11	41.00	160.50	160.50	1.95	41.50	120.80	120.80	1.69
40.50	2.73	315.60	2.73	41.00	194.60	194.60	2.61	41.50	201.60	201.60	2.45	42.00	156.80	156.80	2.19
41.00	3.22	373.00	3.22	41.50	231.70	231.70	3.11	42.00	242.60	242.60	2.95	42.50	192.30	192.30	2.69
41.50	3.72	430.40	3.72	42.00	268.80	268.80	3.61	42.50	283.70	283.70	3.45	43.00	228.00	228.00	3.18
42.00	4.22	487.90	4.22	42.50	305.90	305.90	4.11	43.00	324.70	324.70	3.95	43.50	263.80	263.80	3.68
42.50	4.71	545.30	4.71	43.00	343.00	343.00	4.60	43.50	365.80	365.80	4.45	44.00	299.50	299.50	4.18
43.00	5.21	602.70	5.21	43.50	380.10	380.10	5.10	44.00	406.80	406.80	4.95	44.50	335.30	335.30	4.68

** CHAMA RIVER **

52.50		53.00		53.50		54.00	
SDDO	DX	SDDO	DX	SDDO	DX	SDDO	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
40.14	0.0	40.69	0.0	41.29	0.0	41.44	0.0
40.50	0.0	41.00	5.20	41.50	2.60	41.50	0.10
41.00	0.14	41.50	50.30	42.00	26.30	42.00	0.10
41.41	0.27	41.93	124.10	42.50	58.80	42.50	0.42
41.50	0.30	42.00	136.70	42.74	74.80	42.50	0.88
42.00	0.46	42.50	226.00	43.00	92.80	43.00	1.09
42.50	0.62	43.00	315.30	43.50	127.00	43.00	1.34
43.00	0.78	43.50	404.60	44.00	161.30	43.50	1.84
43.50	0.94	44.00	493.90	44.50	195.50	44.00	1.98
44.00	1.10	44.50	583.30	45.00	229.70	44.50	2.34
44.50	1.26	45.00	672.60	45.50	264.00	45.00	2.83
45.00	1.43	45.50	761.90	46.00	298.20	45.50	3.33
45.50	1.59	46.00	851.20	46.50	332.50	46.00	3.83
				46.50	332.50	46.50	4.32
							4.82

** CHAMA RIVER **

54.50		55.00		55.50		56.00	
SDDO	DX	SDDO	DX	SDDO	DX	SDDO	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
42.61	0.0	43.06	0.0	44.12	0.0	44.89	0.0
43.00	0.26	43.50	8.40	44.50	3.00	45.00	0.40
43.50	0.71	44.00	6.40	45.00	44.90	45.50	23.80
43.95	1.12	44.50	5.40	45.50	111.30	46.00	92.00
44.00	1.16	45.00	67.80	45.73	149.30	46.50	164.10
44.50	1.64	45.50	146.20	46.00	193.00	46.50	189.30
45.00	2.11	45.95	222.00	46.50	275.20	47.00	289.10
45.50	2.60	46.00	231.80	47.00	357.40	47.50	392.00
46.00	3.09	46.50	323.30	47.50	439.70	48.00	495.20
46.50	3.58	47.00	413.00	48.00	521.90	48.50	598.40
47.00	4.07	47.50	503.60	48.50	604.10	49.00	701.70
47.50	4.56	48.00	594.30	49.00	686.40	49.50	804.90
48.00	5.05	48.50	685.00	49.50	768.60	50.00	908.20

** CHAMA RIVER **

60.00		60.50		61.00		61.50	
SODD	DX	SODD	DX	SODD	DX	SODD	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
50.48	0.0	50.86	0.0	52.26	0.0	53.96	0.0
51.50	38.40	51.00	0.80	52.50	11.30	54.00	0.10
52.00	79.40	51.50	12.20	53.00	46.00	54.50	47.00
52.43	128.60	52.00	33.50	53.50	93.30	55.00	222.10
52.50	138.60	52.50	60.10	54.00	160.90	55.50	415.80
53.00	205.40	53.00	92.50	54.50	276.30	55.69	490.80
53.50	272.30	53.50	159.00	54.57	293.30	56.00	616.60
54.00	339.20	54.00	265.40	55.00	449.60	56.50	820.30
54.50	406.00	54.50	379.50	55.50	692.00	57.00	1026.40
55.00	472.90	55.00	495.30	56.00	937.60	57.50	1234.00
55.50	539.80	55.39	585.40	56.50	1185.10	58.00	1441.60
56.00	606.60	55.50	612.10	57.00	1432.60	58.50	1649.10
56.50	673.50	56.00	731.10	57.50	1680.10	59.00	1856.70
R	A	R	A	R	A	R	A
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.36	0.80	0.07	0.07	0.18	0.18	0.18	0.02
0.80	0.80	0.37	0.37	0.58	0.58	0.58	0.17
0.97	0.74	0.74	0.74	0.89	0.89	0.89	0.58
1.03	0.96	0.96	0.96	0.77	0.77	0.77	1.05
1.53	1.36	1.36	1.36	1.10	1.10	1.10	1.22
2.03	0.86	0.86	0.86	1.13	1.13	1.13	1.52
2.53	1.18	1.18	1.18	0.95	0.95	0.95	2.00
3.03	1.63	1.63	1.63	1.41	1.41	1.41	2.47
3.52	2.11	2.11	2.11	1.89	1.89	1.89	2.97
4.02	2.47	2.47	2.47	2.39	2.39	2.39	3.47
4.52	2.58	2.58	2.58	2.89	2.89	2.89	3.97
5.02	3.02	3.02	3.02	3.39	3.39	3.39	4.47

** CHAMA RIVER **

62.00		62.50		63.00		63.50	
SODD	DX	SODD	DX	SODD	DX	SODD	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
53.18	0.0	54.79	0.0	56.15	0.0	57.00	0.0
53.50	2.70	55.00	2.10	56.50	1.00	57.50	5.00
54.00	25.80	55.50	24.20	57.00	30.30	58.00	23.70
54.50	79.40	56.00	90.10	57.50	112.10	58.50	68.40
55.00	137.70	56.50	322.40	58.00	466.50	59.00	264.00
55.50	230.00	57.00	651.50	58.50	877.50	59.50	633.20
55.75	316.80	57.50	1013.20	58.57	932.00	60.00	1031.20
56.00	448.50	58.00	1408.10	59.00	1291.00	60.50	1437.30
56.50	821.60	58.50	1807.10	59.50	1706.00	60.94	1797.50
57.00	1200.90	59.00	2206.90	59.50	2122.30	61.00	1846.70
57.50	1581.50	59.50	2607.30	60.50	2540.20	61.50	2257.50
58.00	1964.70	60.00	3008.40	61.00	2962.30	62.00	2668.30
58.50	2348.70	60.50	3409.50	61.50	3384.50	62.50	3079.20
R	A	R	A	R	A	R	A
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.14	0.30	0.10	0.10	0.06	0.06	0.06	0.24
0.30	0.71	0.39	0.39	0.37	0.37	0.37	0.40
0.71	1.04	0.94	0.94	0.34	0.34	0.34	0.40
1.04	0.85	0.85	0.85	0.57	0.57	0.57	0.43
0.85	0.71	0.71	0.71	1.06	1.06	1.06	0.81
0.67	1.08	1.36	1.36	1.13	1.13	1.13	1.28
1.08	1.58	2.26	2.26	1.56	1.56	1.56	1.76
1.58	2.07	2.75	2.75	2.05	2.05	2.05	2.19
2.07	2.55	3.24	3.24	2.54	2.54	2.54	2.24
2.55	3.05	3.73	3.73	3.02	3.02	3.02	2.74
3.05	4.22	4.22	4.22	3.50	3.50	3.50	3.24

** CHAMA RIVER **

64.00		64.50		65.00		65.50	
S000	DX	S000	DX	S000	DX	S000	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
57.18	0.0	58.77	0.0	59.68	0.0	61.84	0.0
57.50	9.40	59.00	1.70	60.00	1.90	62.00	1.40
58.00	49.70	59.50	27.40	60.50	22.40	62.50	34.30
58.50	158.60	60.00	108.90	61.00	87.90	63.00	136.40
59.00	356.90	60.50	273.50	61.50	239.10	63.50	425.00
59.50	677.20	61.00	563.30	61.77	344.60	63.68	525.90
59.63	771.50	61.22	700.30	62.00	431.80	64.00	727.40
60.00	1053.70	61.50	870.80	62.50	626.00	64.50	1042.00
60.50	1432.50	62.00	1179.30	63.00	825.50	65.00	1358.40
61.00	1812.90	62.50	1488.80	63.50	1028.60	65.50	1675.10
61.50	2195.20	63.00	1799.80	64.00	1234.60	66.00	1991.70
62.00	2582.00	63.50	2110.80	64.50	1441.40	66.50	2308.40
62.50	2969.30	64.00	2421.80	65.00	1648.10	67.00	2625.00
R	A	R	A	R	A	R	A
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.21	0.12	0.12	0.14	0.14	0.14	0.14	0.08
0.32	0.29	0.29	0.32	0.32	0.32	0.32	0.39
0.55	0.49	0.49	0.41	0.41	0.41	0.41	0.34
0.70	0.60	0.60	0.66	0.66	0.66	0.66	0.67
0.91	0.92	0.92	0.89	0.89	0.89	0.89	0.84
1.02	1.14	1.14	1.11	1.11	1.11	1.11	1.16
1.39	1.41	1.41	1.59	1.59	1.59	1.59	1.65
1.88	1.90	1.90	2.04	2.04	2.04	2.04	2.14
2.37	2.39	2.39	2.51	2.51	2.51	2.51	2.64
2.85	2.89	2.89	2.98	2.98	2.98	2.98	3.14
3.33	3.39	3.39	3.48	3.48	3.48	3.48	3.64
3.83	3.88	3.88	3.98	3.98	3.98	3.98	4.14

** CHAMA RIVER **

66.00		66.50		67.00		67.50	
S000	DX	S000	DX	S000	DX	S000	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
61.15	0.0	64.77	0.0	66.16	0.0	68.28	0.0
61.50	6.80	65.50	35.40	66.50	4.40	68.50	1.50
62.00	26.80	66.00	178.00	67.00	78.70	69.00	19.80
62.50	62.00	66.50	428.70	67.50	240.20	69.50	91.80
62.94	165.20	66.66	520.10	67.79	394.00	69.78	155.70
63.00	192.00	67.00	709.40	68.00	529.60	70.00	231.50
63.50	490.40	67.50	990.90	68.50	847.70	70.50	472.70
64.00	811.60	68.00	1273.10	69.00	1167.60	71.00	722.90
64.50	1135.60	68.50	1556.10	69.50	1488.90	71.50	976.00
65.00	1465.80	69.00	1839.80	70.00	1810.80	72.00	1232.10
65.50	1797.20	69.50	2124.30	70.50	2133.30	72.50	1491.20
66.00	2129.90	70.00	2409.50	71.00	2456.30	73.00	1753.50
66.50	2463.80	70.50	2695.50	71.50	2780.00	73.50	2019.10
R	A	R	A	R	A	R	A
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.22	0.24	0.24	0.24	0.24	0.09	0.09	0.10
0.57	0.40	0.40	0.40	0.40	0.34	0.34	0.30
0.58	0.76	0.76	0.76	0.76	0.56	0.56	0.46
0.39	0.92	0.92	0.92	0.92	0.62	0.62	0.56
0.41	1.26	1.26	1.26	1.26	0.83	0.83	0.54
0.76	1.75	1.75	1.75	1.75	1.33	1.33	0.95
1.26	2.25	2.25	2.25	2.25	1.82	1.82	1.43
1.72	2.74	2.74	2.74	2.74	2.31	2.31	1.91
2.21	3.23	3.23	3.23	3.23	2.80	2.80	2.39
2.70	3.72	3.72	3.72	3.72	3.30	3.30	2.86
3.19	4.21	4.21	4.21	4.21	3.79	3.79	3.32
3.67	4.69	4.69	4.69	4.69	4.28	4.28	3.76

** CHAMA RIVER **

68.00		68.50		69.00		69.50	
SODD	DX	SODD	DX	SODD	DX	SODD	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
71.46	0.0	74.01	0.0	76.43	0.0	79.15	0.0
71.50	0.20	74.50	5.50	77.50	21.50	80.00	3.20
72.00	11.60	75.00	58.60	78.00	102.20	80.50	21.00
72.50	52.90	75.50	185.20	78.50	253.90	80.50	51.70
73.00	187.00	76.00	343.90	79.00	443.40	81.00	123.00
73.21	266.10	76.50	514.90	79.15	504.70	81.50	233.20
73.50	378.80	76.51	518.00	79.50	645.80	81.93	413.80
74.00	572.90	77.00	690.20	80.00	849.80	82.00	443.50
74.50	787.80	77.50	866.20	80.50	1054.90	82.50	647.60
75.00	983.60	78.00	1042.60	81.00	1263.10	83.00	853.40
75.50	1180.10	78.50	1219.00	81.50	1472.80	83.50	1060.90
76.00	1357.10	79.00	1395.50	82.00	1682.40	84.00	1269.50
76.50	1554.10	79.50	1571.90	82.50	1892.00	84.50	1478.10
R	A	R	A	R	A	R	A
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.02	0.50	0.14	5.50	0.33	21.50	0.41	3.20
0.22	11.60	0.28	58.60	0.41	102.20	0.41	21.00
0.39	52.90	0.60	185.20	0.72	253.90	0.72	51.70
0.51	187.00	1.03	343.90	1.12	443.40	1.12	123.00
0.69	266.10	1.47	514.90	1.24	504.70	1.24	233.20
0.97	378.80	1.48	518.00	1.58	645.80	1.58	413.80
1.47	572.90	1.96	690.20	2.07	849.80	2.07	443.50
1.96	787.80	2.45	866.20	2.56	1054.90	2.56	647.60
2.45	983.60	2.95	1042.60	2.72	1263.10	2.72	853.40
2.93	1180.10	3.45	1219.00	3.18	1472.80	3.18	1060.90
3.43	1357.10	3.95	1395.50	3.63	1682.40	3.63	1269.50
3.93	1554.10	4.44	1571.90	4.08	1892.00	4.08	1478.10

** CHAMA RIVER **

70.00		70.50		71.00		71.50	
SODD	DX	SODD	DX	SODD	DX	SODD	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
81.79	0.0	84.80	0.0	87.14	0.0	90.00	0.0
82.50	32.40	85.00	2.10	87.50	0.90	90.50	31.50
83.00	135.20	85.50	38.50	88.00	16.30	91.00	139.30
83.50	300.70	86.00	140.50	88.50	134.30	91.04	151.50
83.57	325.60	86.50	310.30	88.60	174.10	91.50	293.80
84.00	493.80	86.85	451.00	89.00	370.50	92.00	524.70
84.50	691.00	87.00	514.30	89.50	638.00	92.50	802.80
85.00	891.50	87.50	724.30	90.00	910.70	93.00	1093.30
85.50	1093.30	88.00	935.10	90.50	1194.80	93.50	1389.00
86.00	1296.00	88.50	1146.60	91.00	1481.40	94.00	1689.50
86.50	1498.90	89.00	1358.30	91.50	1769.10	94.50	1991.90
87.00	1701.70	89.50	1570.00	92.00	2057.70	95.00	2295.10
87.50	1904.50	90.00	1781.70	92.50	2347.40	95.50	2599.10
R	A	R	A	R	A	R	A
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.26	32.40	0.09	2.10	0.18	0.90	0.18	31.50
0.51	135.20	0.30	38.50	0.16	16.30	0.16	139.30
0.79	300.70	0.48	140.50	0.10	134.30	0.10	151.50
0.85	325.60	0.80	310.30	0.11	174.10	0.11	293.80
1.26	493.80	1.08	451.00	0.23	370.50	0.23	524.70
1.73	691.00	1.23	514.30	0.39	638.00	0.39	802.80
2.21	891.50	1.72	724.30	0.55	910.70	0.55	1093.30
2.69	1093.30	2.21	935.10	0.72	1194.80	0.72	1389.00
3.18	1296.00	2.70	1146.60	0.89	1481.40	0.89	1689.50
3.68	1498.90	3.20	1358.30	1.06	1769.10	1.06	1991.90
4.18	1701.70	3.69	1570.00	1.23	2057.70	1.23	2295.10
4.68	1904.50	4.19	1781.70	1.40	2347.40	1.40	2599.10

** CHAMA RIVER **

72.00		72.50		73.00		73.50	
SDDO	DX	SDDO	DX	SDDO	DX	SDDO	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	R	A	H	R	H	A
93.84	0.0	0.0	0.0	101.29	0.0	104.40	0.0
94.00	1.20	0.08	10.70	101.50	0.82	104.50	0.10
94.50	25.40	0.29	98.00	102.00	1.09	105.00	5.20
95.00	97.10	0.49	98.50	102.50	0.63	105.50	26.80
95.50	230.00	0.67	99.00	103.00	0.53	106.00	93.80
95.61	269.80	0.73	99.50	103.50	0.60	106.05	106.90
96.00	423.80	0.98	100.00	103.93	1.48	106.50	243.90
96.50	659.20	1.34	100.50	104.00	1.37	107.00	406.20
97.00	904.30	1.84	100.90	104.50	1.73	107.50	568.50
97.50	1150.30	2.33	101.00	105.00	1.65	108.00	730.80
98.00	1397.20	2.82	101.50	105.50	2.23	108.50	893.10
98.50	1644.90	3.30	102.00	106.00	2.73	109.00	1055.40
99.00	1893.60	3.79	102.50	106.50	3.22	109.50	1217.70

** CHAMA RIVER **

74.00	
SDDO	DX
0.03000	500.00
H	A
106.43	0.0
107.00	6.80
107.50	39.30
108.00	142.60
108.50	327.00
109.00	544.60
109.50	768.20
110.00	1011.40
110.50	1272.40
111.00	1543.20
111.50	1814.90
112.00	2087.50

** CHAMA RIVER **

0.0		0.50		1.00		1.50	
SDDO	DX	SDDO	DX	SDDO	DX	SDDO	DX
0.03000	0.0	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
1.32	0.0	1.16	0.0	1.05	0.0	1.28	0.0
1.50	1.70	1.50	2.70	1.50	3.70	1.50	0.90
2.00	20.70	2.00	16.00	2.00	16.10	2.00	9.80
2.11	26.10	2.50	36.70	2.50	32.90	2.50	26.70
2.50	46.70	2.78	50.50	2.98	49.50	3.00	44.90
3.00	72.90	3.00	61.50	3.00	50.30	3.41	60.20
3.50	99.20	3.50	86.70	3.50	68.10	3.50	63.70
4.00	125.40	4.00	111.90	4.00	86.00	4.00	82.70
4.50	151.70	4.50	137.20	4.50	103.90	4.50	101.60
5.00	177.90	5.00	162.40	5.00	121.80	5.00	120.60
5.50	204.10	5.50	187.60	5.50	139.60	5.50	139.60
6.00	230.40	6.00	212.90	6.00	157.50	6.00	158.60
6.50	256.60	6.50	238.10	6.50	173.40	6.50	177.50
R	A	R	A	R	A	R	A
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.09	0.09	0.17	0.17	0.23	0.23	0.23	0.11
0.41	0.41	0.46	0.46	0.50	0.50	0.50	0.36
0.50	0.50	0.77	0.77	0.95	0.95	0.95	0.74
0.89	0.89	1.00	1.00	1.37	1.37	1.37	1.19
1.39	1.39	1.21	1.21	1.39	1.39	1.39	1.55
1.89	1.89	1.71	1.71	1.87	1.87	1.87	1.64
2.39	2.39	2.20	2.20	2.35	2.35	2.35	2.12
2.88	2.88	2.70	2.70	2.84	2.84	2.84	2.61
3.38	3.38	3.19	3.19	3.33	3.33	3.33	3.10
3.88	3.88	3.69	3.69	3.82	3.82	3.82	3.59
4.38	4.38	4.19	4.19	4.31	4.31	4.31	4.07
4.88	4.88	4.68	4.68	4.80	4.80	4.80	4.56

** CHAMA RIVER **

2.00		2.50		3.00		3.50	
SDDO	DX	SDDO	DX	SDDO	DX	SDDO	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
1.88	0.0	0.84	0.0	-0.08	0.0	2.09	0.0
2.00	2.00	2.00	15.60	2.00	26.10	2.50	3.20
2.50	17.30	2.50	30.80	2.50	40.20	3.00	16.00
3.00	40.50	3.00	50.50	3.00	56.60	3.50	37.90
3.50	66.40	3.50	72.10	3.50	73.90	4.00	62.00
3.54	68.80	3.89	89.70	3.92	88.80	4.38	80.60
4.00	93.10	4.00	94.60	4.00	91.70	4.50	86.60
4.50	119.80	4.50	117.40	4.50	109.90	5.00	111.50
5.00	146.40	5.00	140.20	5.00	128.10	5.50	136.30
5.50	173.10	5.50	163.00	5.50	146.20	6.00	161.20
6.00	199.80	6.00	185.80	6.00	164.40	6.50	186.00
6.50	226.40	6.50	208.60	6.50	182.50	7.00	210.90
7.00	253.10	7.00	231.40	7.00	200.70	7.50	235.70
R	A	R	A	R	A	R	A
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.09	0.09	0.60	0.60	1.02	1.02	1.02	0.20
0.44	0.44	0.87	0.87	1.27	1.27	1.27	0.44
0.80	0.80	1.19	1.19	1.64	1.64	1.64	0.79
1.24	1.24	1.61	1.61	2.04	2.04	2.04	1.26
1.28	1.28	1.94	1.94	2.37	2.37	2.37	1.60
1.73	1.73	2.04	2.04	2.44	2.44	2.44	1.71
2.23	2.23	2.53	2.53	2.91	2.91	2.91	2.20
2.72	2.72	3.02	3.02	3.39	3.39	3.39	2.70
3.22	3.22	3.51	3.51	3.87	3.87	3.87	3.19
3.71	3.71	4.00	4.00	4.35	4.35	4.35	3.68
4.21	4.21	4.50	4.50	4.83	4.83	4.83	4.17
4.71	4.71	4.99	4.99	5.31	5.31	5.31	4.66

** CHAMA RIVER **

4.00		4.50		5.00		5.50	
SODD	DX	SODD	DX	SODD	DX	SODD	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
2.63	0.0	1.80	0.0	2.63	0.0	3.27	0.0
3.00	3.70	4.50	63.50	3.00	1.80	3.50	0.90
3.50	19.80	4.68	73.90	3.50	9.90	4.00	9.60
4.00	41.50	5.00	93.80	4.00	24.50	4.50	27.20
4.41	59.70	5.50	124.40	4.50	44.10	5.00	51.40
4.50	63.90	6.00	155.00	5.00	65.00	5.41	75.80
5.00	86.90	6.50	185.60	5.18	78.80	5.50	81.90
5.50	110.10	7.00	216.20	5.50	86.40	6.00	114.50
6.00	133.50	7.50	246.80	6.00	107.90	6.50	147.20
6.50	156.90	8.00	277.40	6.50	129.50	7.00	179.90
7.00	180.30	8.50	308.00	7.00	151.00	7.50	212.50
7.50	203.60	9.00	338.60	7.50	172.50	8.00	245.20
8.00	227.00	9.50	369.20	8.00	194.10	8.50	277.80
R		R		R		R	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.18	0.18	0.18	0.24	0.19	0.19	0.19	0.11
0.48	0.48	1.21	1.21	0.44	0.44	0.44	0.36
0.93	0.93	1.52	1.52	1.07	1.07	1.07	0.63
1.30	1.30	2.01	2.01	1.51	1.51	1.51	0.94
1.38	1.38	3.00	3.00	1.67	1.67	1.67	1.16
1.85	1.85	3.50	3.50	1.97	1.97	1.97	1.25
2.30	2.30	4.49	4.49	2.46	2.46	2.46	1.74
2.79	2.79	4.98	4.98	2.95	2.95	2.95	2.73
3.28	3.28	5.48	5.48	3.44	3.44	3.44	3.23
3.77	3.77	5.97	5.97	3.93	3.93	3.93	3.73
4.26	4.26			4.42	4.42		4.22
4.75	4.75						

** CHAMA RIVER **

6.00		6.50		7.00		7.50	
SODD	DX	SODD	DX	SODD	DX	SODD	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
3.47	0.0	3.67	0.0	3.67	0.0	4.00	0.0
3.50	0.0	4.00	7.70	4.00	1.60	4.50	3.80
4.00	4.80	4.50	27.30	4.50	10.00	5.00	15.20
4.50	18.00	5.00	53.20	5.00	24.50	5.50	34.20
5.00	39.30	5.50	82.30	5.50	41.60	6.00	57.20
5.50	64.50	6.00	112.40	6.00	59.30	6.47	79.70
5.65	72.60	6.07	116.90	6.03	60.40	6.50	81.00
6.00	91.10	6.50	143.20	6.50	77.50	7.00	105.20
6.50	117.80	7.00	174.00	7.00	95.60	7.50	129.50
7.00	144.50	7.50	204.80	7.50	113.80	8.00	153.80
7.50	171.20	8.00	235.60	8.00	131.90	8.50	178.10
8.00	198.00	8.50	266.40	8.50	150.10	9.00	202.30
8.50	224.70	9.00	297.20	9.00	168.20	9.50	226.60
R		R		R		R	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.01	0.01	0.24	0.24	0.17	0.17	0.17	0.25
0.26	0.26	0.94	0.94	0.41	0.41	0.41	0.50
0.80	0.80	1.38	1.38	0.75	0.75	0.75	0.76
1.23	1.23	1.88	1.88	1.60	1.60	1.60	1.21
1.56	1.56	2.30	2.30	1.63	1.63	1.63	1.63
1.49	1.49	2.79	2.79	2.07	2.07	2.07	1.65
2.19	2.19	3.29	3.29	2.55	2.55	2.55	2.62
2.69	2.69	3.78	3.78	3.04	3.04	3.04	3.12
3.18	3.18	4.27	4.27	3.52	3.52	3.52	3.61
3.68	3.68	4.77	4.77	4.01	4.01	4.01	3.61
4.17	4.17			4.49	4.49		4.10
							4.59

** CHAMA RIVER **

8.00			8.50			9.00			9.50		
SDD	DX		SDD	DX		SDD	DX		SDD	DX	
0.03000	500.00		0.03000	500.00		0.03000	500.00		0.03000	500.00	
H	A	R	H	A	R	H	A	R	H	A	R
4.02	0.0	0.0	4.33	0.0	0.0	5.20	0.0	0.0	5.11	0.0	0.0
4.50	5.00	0.24	5.00	12.90	0.36	5.50	2.00	0.15	5.50	6.80	0.15
5.00	21.00	0.49	5.50	36.80	0.62	6.00	13.90	0.42	6.00	32.40	0.60
5.50	45.70	0.88	6.00	70.20	1.01	6.50	32.60	0.78	6.50	59.40	1.07
6.00	71.80	1.34	6.50	105.30	1.47	7.00	54.80	1.17	7.00	87.50	1.48
6.50	98.90	1.77	6.64	115.00	1.59	7.08	58.70	1.24	7.37	110.00	1.71
6.58	103.50	1.84	7.00	141.20	1.95	7.50	78.30	1.64	7.50	118.10	1.83
7.00	126.60	2.25	7.50	177.20	2.44	8.00	101.90	2.14	8.00	149.70	2.32
7.50	154.20	2.74	8.00	213.10	2.94	8.50	125.50	2.63	8.50	181.40	2.81
8.00	181.90	3.24	8.50	249.10	3.44	9.00	149.10	3.13	9.00	213.00	3.30
8.50	209.60	3.73	9.00	285.10	3.93	9.50	172.70	3.63	9.50	244.70	3.78
9.00	237.30	4.22	9.50	321.10	4.43	10.00	196.30	4.12	10.00	276.30	4.27
9.50	264.90	4.71	10.00	357.00	4.92	10.50	219.90	4.62	10.50	308.00	4.76

** CHAMA RIVER **

10.00			10.50			11.00			11.50		
SDD	DX		SDD	DX		SDD	DX		SDD	DX	
0.03000	500.00		0.03000	500.00		0.03000	500.00		0.03000	500.00	
H	A	R	H	A	R	H	A	R	H	A	R
5.25	0.0	0.0	5.47	0.0	0.0	5.10	0.0	0.0	6.23	0.0	0.0
5.50	1.60	0.13	5.50	0.0	0.02	5.50	1.60	0.20	6.50	2.20	0.13
6.00	13.80	0.38	6.00	4.80	0.27	6.00	7.90	0.45	7.00	17.50	0.44
6.50	35.10	0.75	6.50	18.10	0.52	6.50	19.20	0.70	7.50	37.60	0.91
7.00	58.60	1.21	7.00	38.10	0.90	7.00	34.80	1.04	8.00	58.40	1.35
7.50	82.60	1.66	7.50	59.30	1.36	7.50	51.90	1.44	8.50	79.80	1.78
7.59	86.80	1.73	8.00	81.10	1.80	8.00	70.20	1.82	8.50	79.90	1.78
8.00	107.10	2.13	8.01	81.60	1.81	8.00	70.30	1.82	9.00	101.70	2.26
8.50	131.70	2.61	8.50	103.10	2.28	8.50	89.10	2.29	9.50	123.60	2.75
9.00	156.20	3.10	9.00	125.10	2.77	9.00	108.00	2.78	10.00	145.50	3.23
9.50	180.80	3.59	9.50	147.10	3.26	9.50	127.00	3.27	10.50	167.40	3.72
10.00	205.40	4.08	10.00	169.20	3.74	10.00	145.90	3.74	11.00	189.20	4.20
10.50	229.90	4.57	10.50	191.20	4.23	10.50	164.80	4.24	11.50	211.10	4.69

** CHAMA RIVER **

12.00		12.50		13.00		13.50	
SDDO	DX	SDDO	DX	SDDO	DX	SDDO	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
6.68	0.0	6.36	0.0	7.07	0.0	6.93	0.0
7.00	9.80	6.50	0.60	7.50	12.30	8.00	33.80
8.00	36.40	7.00	12.10	8.00	55.10	8.50	58.60
8.50	66.60	7.50	32.30	8.50	108.00	1.01	84.90
9.00	97.80	8.00	54.60	8.77	136.60	1.26	105.30
9.50	130.00	8.50	77.50	9.00	162.00	1.48	112.90
9.02	131.10	9.00	101.00	9.50	216.70	1.96	144.30
9.50	162.90	9.05	103.30	10.00	271.50	2.46	180.00
10.00	196.50	9.50	124.90	10.50	326.40	2.96	219.70
10.50	230.10	10.00	148.80	11.00	381.30	3.46	260.00
11.00	263.70	10.50	172.80	11.50	436.20	3.95	300.50
11.50	297.40	11.00	196.70	12.00	491.10	4.45	340.60
12.00	331.00	11.50	220.60	12.50	545.90	4.95	380.90
R	A	R	A	R	A	R	A
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.23	0.61	0.07	0.34	0.07	0.34	0.20	0.70
1.08	1.53	0.73	1.19	0.73	1.19	0.53	1.14
1.53	1.96	1.19	1.63	1.19	1.63	1.01	1.55
1.96	1.98	1.63	2.05	1.63	2.05	1.26	1.83
1.98	2.42	2.05	2.52	2.05	2.52	1.48	1.91
2.42	2.88	2.52	3.00	2.52	3.00	1.96	2.41
2.88	3.37	3.00	3.49	3.00	3.49	2.46	2.88
3.37	3.86	3.49	3.97	3.49	3.97	2.96	3.35
3.86	4.36	3.97	4.45	3.97	4.45	3.46	3.82
4.36		4.45		4.45		3.95	4.18
4.78						4.45	4.81

** CHAMA RIVER **

14.00		14.50		15.00		15.50	
SDDO	DX	SDDO	DX	SDDO	DX	SDDO	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
7.43	0.0	7.59	0.0	7.48	0.0	8.88	0.0
7.50	0.20	8.00	10.70	9.00	25.70	9.00	3.30
8.00	14.10	8.50	34.50	9.50	44.20	9.50	56.40
8.50	43.30	9.00	62.90	10.00	70.60	10.00	113.80
9.00	86.10	9.50	92.90	10.42	98.50	10.50	172.40
9.50	129.50	10.00	123.90	10.50	104.60	10.56	180.10
9.80	155.80	10.05	127.00	11.00	141.60	11.00	231.90
10.00	173.50	10.50	155.70	11.50	180.00	11.50	291.80
10.50	217.70	11.00	188.00	12.00	219.90	12.00	352.10
11.00	261.90	11.50	220.70	12.50	260.30	12.50	412.80
11.50	306.10	12.00	253.60	13.00	300.70	13.00	474.00
12.00	350.20	12.50	286.40	13.50	341.20	13.50	535.40
12.50	394.40	13.00	319.30	14.00	381.60	14.00	596.70
R	A	R	A	R	A	R	A
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.04	0.30	0.28	0.65	0.28	0.65	0.82	0.05
0.53	0.99	1.06	1.51	1.06	1.51	1.16	0.49
0.99	1.47	1.51	1.94	1.51	1.94	1.36	0.98
1.47	1.74	1.94	2.40	1.94	2.40	1.86	1.45
1.74	2.63	2.40	2.84	2.40	2.84	2.28	1.93
2.63	2.93	2.84	3.30	2.84	3.30	2.69	2.41
2.93	3.42	3.30	3.79	3.30	3.79	3.19	2.88
3.42	3.91	3.79	4.29	3.79	4.29	3.69	3.35
3.91	4.41	4.29	4.78	4.29	4.78	4.18	3.82
4.41		4.78		4.78		4.68	4.32

** CHAMA RIVER **

16.00		16.50		17.00		17.50	
SDDO	DX	SDDO	DX	SDDO	DX	SDDO	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
9.07	0.0	9.03	0.0	9.52	0.0	10.15	0.0
9.50	24.00	9.50	7.70	10.00	13.00	10.50	10.80
10.00	78.50	10.00	34.60	10.50	40.20	11.00	47.70
10.50	134.40	10.50	73.70	11.00	71.70	11.50	85.90
10.89	178.90	1.55	113.90	11.35	94.20	11.53	88.10
11.00	191.40	1.66	122.10	11.50	104.40	12.00	124.90
11.50	248.80	2.15	154.90	12.00	137.30	12.50	163.90
12.00	306.20	2.65	195.90	12.50	170.30	13.00	203.00
12.50	363.60	3.15	236.90	13.00	203.30	13.50	242.10
13.00	421.10	3.65	277.90	13.50	236.30	14.00	281.10
13.50	478.50	4.14	318.90	14.00	269.20	14.50	320.20
14.00	535.90	4.64	359.90	14.50	302.20	15.00	359.20
14.50	593.30	5.14	400.90	15.00	335.20	15.50	398.30
R	A	R	A	R	A	R	A
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.26	0.23	0.23	0.23	0.30	0.30	0.30	0.17
0.71	0.45	0.45	0.45	0.65	0.65	0.65	0.63
1.19	0.92	0.92	0.92	1.11	1.11	1.11	1.10
1.55	1.39	1.39	1.39	1.42	1.42	1.42	1.13
1.66	1.48	1.48	1.48	1.57	1.57	1.57	1.59
2.15	1.87	1.87	1.87	2.07	2.07	2.07	2.08
2.65	2.36	2.36	2.36	2.56	2.56	2.56	2.58
3.15	2.86	2.86	2.86	3.06	3.06	3.06	3.08
3.65	3.35	3.35	3.35	3.55	3.55	3.55	3.57
4.14	3.84	3.84	3.84	4.05	4.05	4.05	4.07
4.64	4.34	4.34	4.34	4.55	4.55	4.55	4.56
5.14	4.83	4.83	4.83	5.04	5.04	5.04	5.06

** CHAMA RIVER **

18.00		18.50		19.00		19.50	
SDDO	DX	SDDO	DX	SDDO	DX	SDDO	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
9.82	0.0	10.76	0.0	10.82	0.0	10.66	0.0
10.00	0.50	11.00	7.30	11.50	25.70	11.00	2.50
10.50	6.60	11.50	29.00	12.00	54.50	11.50	15.30
10.80	13.70	12.00	58.80	12.50	84.00	12.00	37.20
11.00	20.70	12.50	98.40	12.81	102.50	12.50	62.80
11.50	59.20	12.57	105.00	13.00	114.30	13.00	89.40
12.00	102.80	1.17	144.50	13.50	144.70	13.04	91.80
12.50	146.80	1.66	190.80	14.00	175.20	13.50	116.50
13.00	190.90	2.16	237.00	14.50	205.70	14.00	143.60
13.50	234.90	2.65	283.30	15.00	236.10	14.50	170.70
14.00	279.00	3.15	329.50	15.50	266.60	15.00	197.90
14.50	323.10	3.65	375.80	16.00	297.10	15.50	225.00
15.00	367.20	4.15	422.00	16.50	327.50	16.00	252.10
R	A	R	A	R	A	R	A
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.09	0.20	0.20	0.20	0.45	0.45	0.45	0.17
0.34	0.57	0.57	0.57	0.93	0.93	0.93	0.42
0.48	0.85	0.85	0.85	1.39	1.39	1.39	0.74
0.68	1.09	1.09	1.09	1.66	1.66	1.66	1.19
1.17	1.33	1.33	1.33	1.85	1.85	1.85	1.63
1.66	1.66	1.66	1.66	2.34	2.34	2.34	1.67
2.16	2.05	2.05	2.05	2.83	2.83	2.83	2.10
2.65	2.54	2.54	2.54	3.32	3.32	3.32	2.59
3.15	3.04	3.04	3.04	3.81	3.81	3.81	3.08
3.65	3.53	3.53	3.53	4.31	4.31	4.31	3.57
4.15	4.03	4.03	4.03	4.80	4.80	4.80	4.06
	4.53	4.53	4.53	5.29	5.29	5.29	4.55

** CHAMA RIVER **

	20.00			20.50			21.00			21.50		
	SODD	DX	R	SODD	DX	R	SODD	DX	R	SODD	DX	R
	0.03000	500.00	0.0	0.03000	500.00	0.0	0.03000	500.00	0.0	0.03000	500.00	0.0
H	10.83	0.0	0.0	11.96	0.0	0.0	11.84	0.0	0.0	12.37	0.0	0.0
A	0.60	0.60	0.08	0.30	0.30	0.02	12.00	1.10	0.08	12.50	0.60	0.06
R	0.53	0.53	0.27	26.50	26.50	0.27	12.50	19.60	0.27	13.00	15.20	0.29
H	12.00	30.90	0.53	76.40	76.40	0.76	13.00	59.80	0.73	13.50	50.20	0.69
A	0.86	68.70	0.86	127.10	127.10	1.24	13.50	101.20	1.20	14.00	86.70	1.16
R	1.33	108.50	1.33	144.30	144.30	1.39	14.00	143.60	1.66	14.50	115.00	1.51
H	13.00	138.70	1.66	178.50	178.50	1.72	14.00	144.00	1.66	14.50	124.00	1.53
A	1.78	149.10	1.78	229.90	229.90	2.21	14.50	186.70	2.14	15.00	161.70	2.12
R	2.27	190.10	2.27	281.40	281.40	2.71	15.00	229.90	2.64	15.50	199.30	2.62
H	14.00	231.10	2.76	332.90	332.90	3.20	15.50	273.00	3.13	16.00	236.90	3.11
A	3.25	272.10	3.25	384.30	384.30	3.70	16.00	316.10	3.63	16.50	274.50	3.61
R	3.74	313.20	3.74	435.80	435.80	4.20	16.50	359.30	4.13	17.00	312.20	4.10
H	15.00	354.20	4.23	487.20	487.20	4.69	17.00	402.40	4.62	17.50	349.80	4.59
A	4.23	354.20	4.23	487.20	487.20	4.69	17.00	402.40	4.62	17.50	349.80	4.59

** CHAMA RIVER **

	22.00			22.50			23.00			23.50		
	SODD	DX	R	SODD	DX	R	SODD	DX	R	SODD	DX	R
	0.03000	500.00	0.0	0.03000	500.00	0.0	0.03000	500.00	0.0	0.03000	500.00	0.0
H	11.87	0.0	0.0	12.86	0.0	0.0	12.83	0.0	0.0	13.98	0.0	0.0
A	0.20	0.20	0.06	12.80	12.80	0.58	13.00	0.60	0.08	14.50	18.50	0.23
R	0.31	5.80	0.31	40.10	40.10	0.56	13.50	8.80	0.37	15.00	48.00	0.77
H	12.50	18.20	0.62	76.60	76.60	1.03	14.00	23.10	0.67	15.50	80.40	1.18
A	0.81	38.40	0.81	98.90	98.90	1.30	14.50	55.30	0.65	16.00	88.40	1.27
R	1.25	62.60	1.25	114.10	114.10	1.50	15.00	97.70	1.12	16.00	115.10	1.63
H	14.00	87.80	1.68	152.00	152.00	1.98	15.50	140.80	1.58	16.50	150.20	2.11
A	1.90	101.60	1.90	190.00	190.00	2.48	16.00	145.50	1.63	17.00	185.70	2.57
R	2.11	114.10	2.11	228.00	228.00	2.98	16.50	184.40	2.07	17.50	221.50	3.05
H	15.00	140.70	2.60	266.00	266.00	3.47	17.00	271.60	2.56	18.00	257.40	3.54
A	3.09	167.30	3.09	303.90	303.90	3.97	17.50	315.20	3.05	18.50	293.20	4.04
R	3.58	193.90	3.58	341.90	341.90	4.46	18.00	315.20	3.54	19.00	329.10	4.53
H	16.00	220.50	4.08	379.90	379.90	4.96	18.50	358.80	4.03	19.50	364.90	5.03
A	4.08	220.50	4.08	379.90	379.90	4.96	18.50	358.80	4.03	19.50	364.90	5.03

** CHAMA RIVER **

26.00			26.50			27.00			27.50		
SDD	DX		SDD	DX		SDD	DX		SDD	DX	
0.03000	500.00		0.03000	500.00		0.03000	500.00		0.03000	500.00	
H	A	R	H	A	R	H	A	R	H	A	R
15.91	0.0	0.0	16.16	0.0	0.0	16.85	0.0	0.0	17.02	0.0	0.0
16.00	0.30	0.04	16.50	4.50	0.23	17.00	0.90	0.07	18.00	40.60	0.42
16.50	24.10	0.32	17.00	22.00	0.35	17.50	22.10	0.32	18.00	95.40	0.83
17.00	66.20	0.69	17.50	53.40	0.83	18.00	60.10	0.76	18.89	142.10	1.10
17.50	125.40	1.03	18.00	85.60	1.30	18.34	87.10	1.07	19.00	156.70	1.16
17.60	137.70	1.13	18.07	90.20	1.36	18.50	100.30	1.22	19.50	227.20	1.58
18.00	186.10	1.52	18.50	118.40	1.77	19.00	141.00	1.72	20.00	298.70	2.07
18.50	247.00	2.01	19.00	151.40	2.24	19.50	181.70	2.21	20.50	370.20	2.57
19.00	308.10	2.50	19.50	184.50	2.73	20.00	222.50	2.71	21.00	441.70	3.07
19.50	369.10	3.00	20.00	217.60	3.22	20.50	263.20	3.20	21.50	513.30	3.56
20.00	430.10	3.49	20.50	250.60	3.72	21.00	304.00	3.70	22.00	584.80	4.06
20.50	491.20	3.99	21.00	283.70	4.21	21.50	344.70	4.19	22.50	656.30	4.56
21.00	552.20	4.48	21.50	316.80	4.70	22.00	385.40	4.69	23.00	727.90	5.05

** CHAMA RIVER **

24.00			24.50			25.00			25.50		
SDD	DX		SDD	DX		SDD	DX		SDD	DX	
0.03000	500.00		0.03000	500.00		0.03000	500.00		0.03000	500.00	
H	A	R	H	A	R	H	A	R	H	A	R
14.07	0.0	0.0	14.84	0.0	0.0	14.88	0.0	0.0	15.37	0.0	0.0
15.00	40.00	0.34	15.00	3.00	0.10	15.00	0.70	0.06	15.50	1.60	0.07
15.50	107.30	0.78	15.50	30.90	0.49	15.50	17.50	0.37	16.00	21.60	0.36
16.00	176.30	1.26	16.00	62.90	0.95	16.00	41.90	0.82	16.50	65.10	0.72
16.15	197.10	1.41	16.47	95.30	1.22	16.50	68.60	1.20	16.65	78.90	0.87
16.50	246.10	1.75	16.50	97.80	1.25	16.79	86.80	1.24	17.00	110.20	1.21
17.00	316.20	2.24	17.00	136.70	1.74	17.00	101.30	1.43	17.50	155.40	1.69
17.50	386.20	2.74	17.50	175.60	2.24	17.50	137.10	1.88	18.00	200.80	2.19
18.00	456.30	3.24	18.00	214.50	2.74	18.00	173.90	2.33	18.50	246.10	2.68
18.50	526.30	3.73	18.50	253.40	3.23	18.50	211.00	2.82	19.00	291.40	3.17
19.00	596.40	4.23	19.00	292.20	3.73	19.00	248.20	3.32	19.50	336.80	3.67
19.50	666.50	4.73	19.50	331.10	4.22	19.50	285.30	3.82	20.00	382.10	4.16
20.00	736.50	5.22	20.00	370.00	4.72	20.00	322.40	4.32	20.50	427.40	4.66

** CHAMA RIVER **

28.00		28.50		29.00		29.50	
SDDO	DX	SDDO	DX	SDDO	DX	SDDO	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
17.31	0.0	17.24	0.0	17.82	0.0	17.87	0.0
17.50	6.40	17.50	11.50	18.50	0.20	18.50	12.90
18.00	54.00	18.00	53.20	19.00	0.52	19.00	35.30
18.50	120.20	18.50	104.30	19.50	1.01	19.50	60.90
18.51	121.70	19.00	156.20	19.56	1.48	19.99	98.30
19.00	192.00	19.12	169.20	20.00	1.59	20.00	99.10
19.50	264.60	19.50	208.90	20.50	2.02	20.50	144.90
20.00	337.30	20.00	262.00	21.00	2.44	21.00	190.60
20.50	409.90	20.50	315.00	21.50	2.96	21.50	236.40
21.00	482.60	21.00	368.10	22.00	3.46	22.00	282.10
21.50	555.20	21.50	421.20	22.50	3.95	22.50	327.90
22.00	627.90	22.00	474.20	23.00	4.45	23.00	373.60
22.50	700.60	22.50	527.30	23.50	4.95	23.50	419.40
R	R	R	R	R	R	R	R
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.10	0.10	0.20	0.20	0.27	0.27	0.31	0.31
0.46	0.46	0.52	0.52	0.70	0.70	0.76	0.76
0.85	0.85	1.01	1.01	1.12	1.12	1.08	1.08
0.86	0.86	1.48	1.48	1.56	1.56	1.08	1.08
1.32	1.32	1.59	1.59	2.02	2.02	1.58	1.58
1.82	1.82	1.95	1.95	2.46	2.46	2.07	2.07
2.31	2.31	2.44	2.44	2.96	2.96	2.57	2.57
2.81	2.81	2.94	2.94	3.46	3.46	3.07	3.07
3.31	3.31	3.43	3.43	3.95	3.95	3.56	3.56
3.81	3.81	4.42	4.42	4.45	4.45	4.06	4.06
4.31	4.31	4.91	4.91	4.95	4.95	4.56	4.56
4.81	4.81						

** CHAMA RIVER **

30.00		30.50		31.00		31.50	
SDDO	DX	SDDO	DX	SDDO	DX	SDDO	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
18.90	0.0	19.31	0.0	20.02	0.0	20.57	0.0
19.00	1.10	19.50	3.50	20.50	0.10	21.00	18.80
19.50	20.40	20.00	37.60	21.00	0.48	21.50	66.10
20.00	43.40	20.40	69.40	21.50	0.86	21.85	100.60
20.50	67.50	20.50	77.40	21.64	0.95	22.00	115.20
20.54	69.60	21.00	118.10	22.00	1.44	22.50	164.90
21.00	92.70	21.50	158.90	22.50	1.94	23.00	214.70
21.50	118.30	22.00	199.80	23.00	2.44	23.50	264.40
22.00	144.20	22.50	240.60	23.50	2.93	24.00	314.10
22.50	170.10	23.00	281.50	24.00	3.43	24.50	363.80
23.00	196.00	23.50	322.30	24.50	3.93	25.00	413.60
23.50	222.00	24.00	363.10	25.00	4.43	25.50	463.30
24.00	247.90	24.50	404.00	25.50	4.92	26.00	513.00
R	R	R	R	R	R	R	R
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.05	0.05	0.10	0.10	0.32	0.32	0.20	0.20
0.46	0.46	0.48	0.48	0.71	0.71	0.68	0.68
0.91	0.91	0.86	0.86	1.07	1.07	1.01	1.01
1.35	1.35	0.95	0.95	1.17	1.17	1.15	1.15
1.38	1.38	1.44	1.44	2.02	2.02	1.65	1.65
1.80	1.80	1.94	1.94	2.52	2.52	2.14	2.14
2.25	2.25	2.44	2.44	3.01	3.01	2.64	2.64
2.74	2.74	2.93	2.93	3.51	3.51	3.14	3.14
3.23	3.23	3.43	3.43	4.01	4.01	3.63	3.63
3.72	3.72	4.43	4.43	4.50	4.50	4.13	4.13
4.22	4.22	4.92	4.92	4.50	4.50	4.63	4.63
4.71	4.71			5.00	5.00	5.12	5.12

** CHAMA RIVER **

32.00		32.50		33.00		33.50	
SDD	DX	SDD	DX	SDD	DX	SDD	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
20.75	0.0	21.50	0.0	21.27	0.0	22.04	0.0
21.00	1.70	21.50	0.0	21.50	1.70	22.50	29.30
21.50	16.30	22.00	14.60	22.00	17.50	23.00	65.40
22.00	50.20	22.50	45.90	22.50	46.10	23.49	102.10
22.22	67.40	23.00	86.00	23.00	83.00	23.50	103.00
22.50	90.20	23.21	105.90	23.03	85.20	24.00	141.40
23.00	130.90	23.50	133.30	23.50	125.00	24.50	179.80
23.50	171.60	24.00	181.60	24.00	167.30	25.00	218.20
24.00	212.20	24.50	229.80	24.50	209.60	25.50	256.70
24.50	252.90	25.00	278.10	25.00	251.80	26.00	295.10
25.00	293.60	25.50	326.30	25.50	294.10	26.50	333.50
25.50	334.20	26.00	374.60	26.00	336.40	27.00	372.00
26.00	374.90	26.50	422.80	26.50	378.70	27.50	410.40
R	A	R	A	R	A	R	A
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.12	0.30	0.00	0.28	0.00	0.11	0.11	0.41
0.66	0.64	0.64	0.96	0.64	0.36	0.36	0.88
0.82	1.09	0.96	1.09	0.96	0.70	0.70	1.32
1.09	1.59	1.09	1.87	1.09	1.01	1.01	1.34
1.59	2.08	1.37	2.36	1.37	1.02	1.02	1.82
2.08	2.57	1.87	2.86	1.87	1.48	1.48	2.32
2.57	3.07	2.36	3.35	2.36	1.97	1.97	2.82
3.07	3.56	3.35	3.85	3.35	2.47	2.47	3.31
3.56	4.05	3.85	4.34	3.85	2.97	2.97	3.81
4.05	4.54	4.34		4.34	3.47	3.47	4.30
4.54					3.97	3.97	4.80
					4.47	4.47	5.30

** CHAMA RIVER **

34.00		34.50		35.00		35.25	
SDD	DX	SDD	DX	SDD	DX	SDD	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	250.00
H	A	H	A	H	A	H	A
22.51	0.0	23.57	0.0	22.83	0.0	23.12	0.0
23.00	17.60	23.00	10.00	23.50	20.70	23.50	16.60
23.50	45.50	23.50	37.90	24.00	46.30	24.00	52.10
23.90	68.30	24.00	67.80	24.50	76.10	24.50	88.40
24.00	74.30	24.50	98.40	25.00	128.50	24.74	106.30
24.50	103.80	24.56	102.40	25.50	190.00	25.00	125.40
25.00	133.60	25.00	129.60	26.00	255.40	25.50	162.70
25.50	162.90	25.50	160.80	26.50	322.80	26.00	200.00
26.00	192.50	26.00	192.00	27.00	391.20	26.50	237.30
26.50	222.10	26.50	223.20	27.50	460.50	27.00	274.70
27.00	251.60	27.00	254.40	28.00	530.80	27.50	312.00
27.50	281.20	27.50	285.60	28.50	602.10	28.00	349.30
28.00	310.80	28.00	316.80	29.00	673.40	28.50	386.60
R	A	R	A	R	A	R	A
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.32	0.79	0.22	0.64	0.22	0.44	0.44	0.24
0.79	1.16	0.64	1.11	0.64	0.84	0.84	0.72
1.16	1.26	1.11	1.57	1.11	1.10	1.10	1.19
1.26	1.74	1.57	2.05	1.57	1.08	1.08	1.42
1.74	2.23	2.05	2.54	2.05	1.49	1.49	1.66
2.23	2.72	2.54	3.04	2.54	1.90	1.90	2.15
2.72	3.22	3.04	3.53	3.04	2.36	2.36	2.64
3.22	3.71	3.53	4.02	3.53	2.81	2.81	3.13
3.71	4.21	4.02	4.52	4.02	3.26	3.26	3.63
4.21	4.70	4.52	5.01	4.52	3.70	3.70	4.12
4.70	5.20	5.01		5.01	4.14	4.14	4.61
5.20					4.57	4.57	5.11

** CHAMA RIVER **

56.50		57.00		57.50		58.00	
SDDG	DX	SDDG	DX	SDDG	DX	SDDG	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
44.92	0.0	45.40	0.0	46.76	0.0	47.01	0.0
45.50	0.36	45.50	0.40	47.50	27.20	47.50	8.00
46.00	0.70	46.00	14.90	48.00	74.40	48.00	30.70
46.50	0.75	46.50	48.20	48.14	89.80	48.50	59.00
47.00	1.21	47.00	88.60	48.50	130.20	49.00	1.01
47.37	1.55	47.50	133.30	49.00	186.70	49.50	0.98
47.50	1.67	48.00	182.10	49.50	243.30	49.50	1.32
48.00	2.17	48.32	215.70	50.00	299.90	49.54	1.34
48.50	2.66	48.50	234.80	50.50	356.50	50.00	1.30
49.00	3.16	49.00	288.50	51.00	413.20	50.50	2.30
49.50	3.65	49.50	342.30	51.50	469.80	51.00	2.79
50.00	4.15	50.00	396.00	52.00	526.40	51.50	3.29
50.50	4.64	50.50	449.70	52.50	583.00	52.00	3.79
						52.50	4.28

** CHAMA RIVER **

58.50		59.00		59.50		59.50	
SDDG	DX	SDDG	DX	SDDG	DX	SDDG	DX
0.03000	500.00	0.03000	500.00	0.03000	500.00	0.03000	500.00
H	A	H	A	H	A	H	A
47.90	0.0	48.56	0.0	49.49	0.0	49.82	0.0
48.00	1.00	49.00	7.40	49.50	0.0	50.00	0.70
48.50	24.10	49.50	37.80	50.00	11.90	50.50	14.20
49.00	58.10	50.00	82.70	50.50	43.60	51.00	46.60
49.50	100.90	50.15	96.90	51.00	83.40	51.50	105.20
50.00	159.40	50.50	130.50	51.50	130.00	52.00	210.30
50.28	194.30	51.00	178.80	51.51	131.00	52.21	254.70
50.50	221.90	51.50	227.00	52.00	180.40	52.50	318.20
51.00	284.50	52.00	275.30	52.50	230.90	53.00	427.20
51.50	347.10	52.50	323.60	53.00	281.40	53.50	536.10
52.00	409.60	53.00	371.90	53.50	331.90	54.00	645.10
52.50	472.20	53.50	420.20	54.00	382.40	54.50	754.00
53.00	534.80	54.00	468.50	54.50	432.90	55.00	863.00

THE REPUBLIC OF VENEZUELA

STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT

LONGITUDINAL CROSS SECTIONAL SURVEY

FOR CHAMA RIVER

MARCH 1989

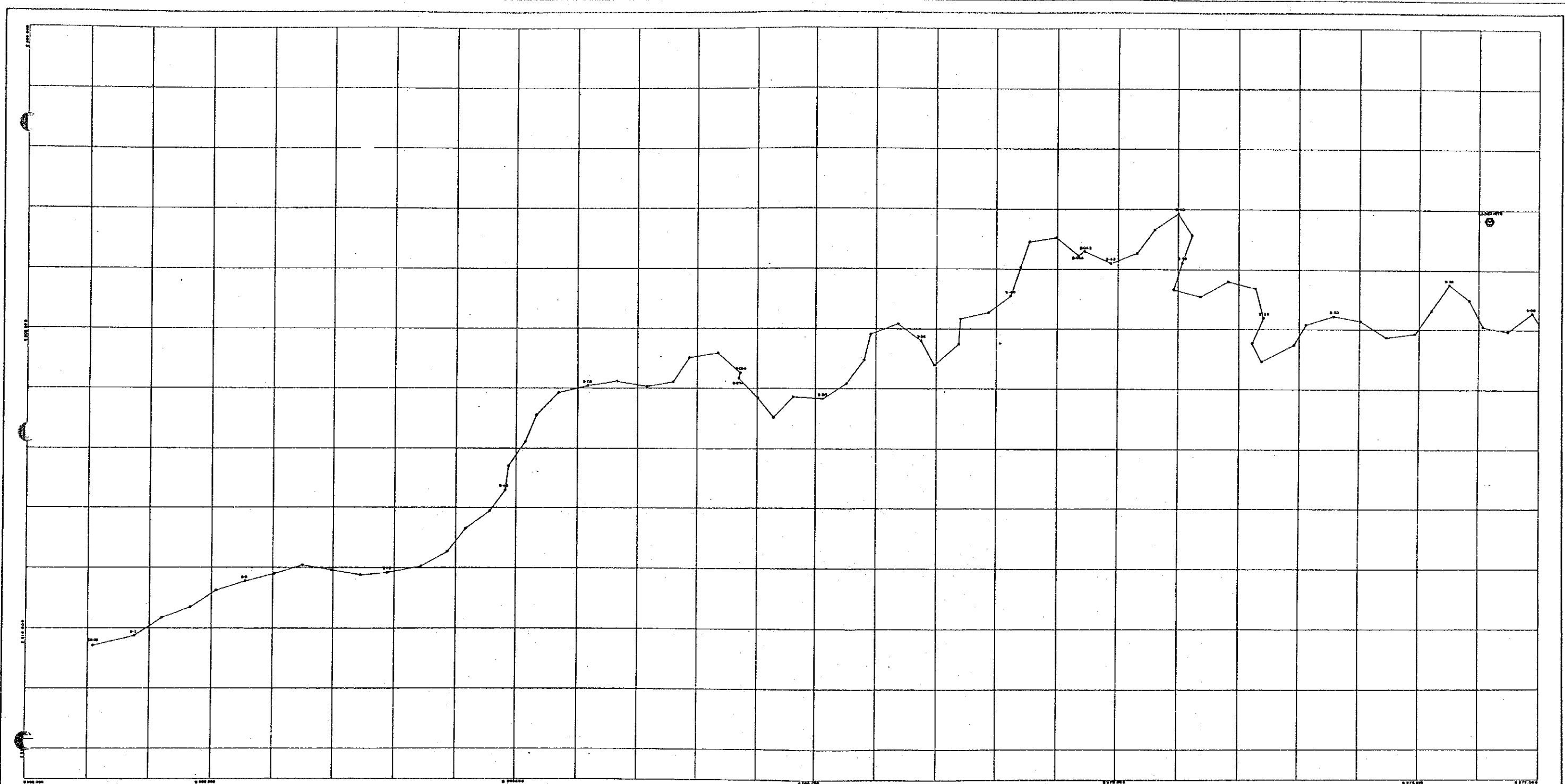
JAPAN INTERNATIONAL COOPERATION AGENCY

THE REPUBLIC OF VENEZUELA

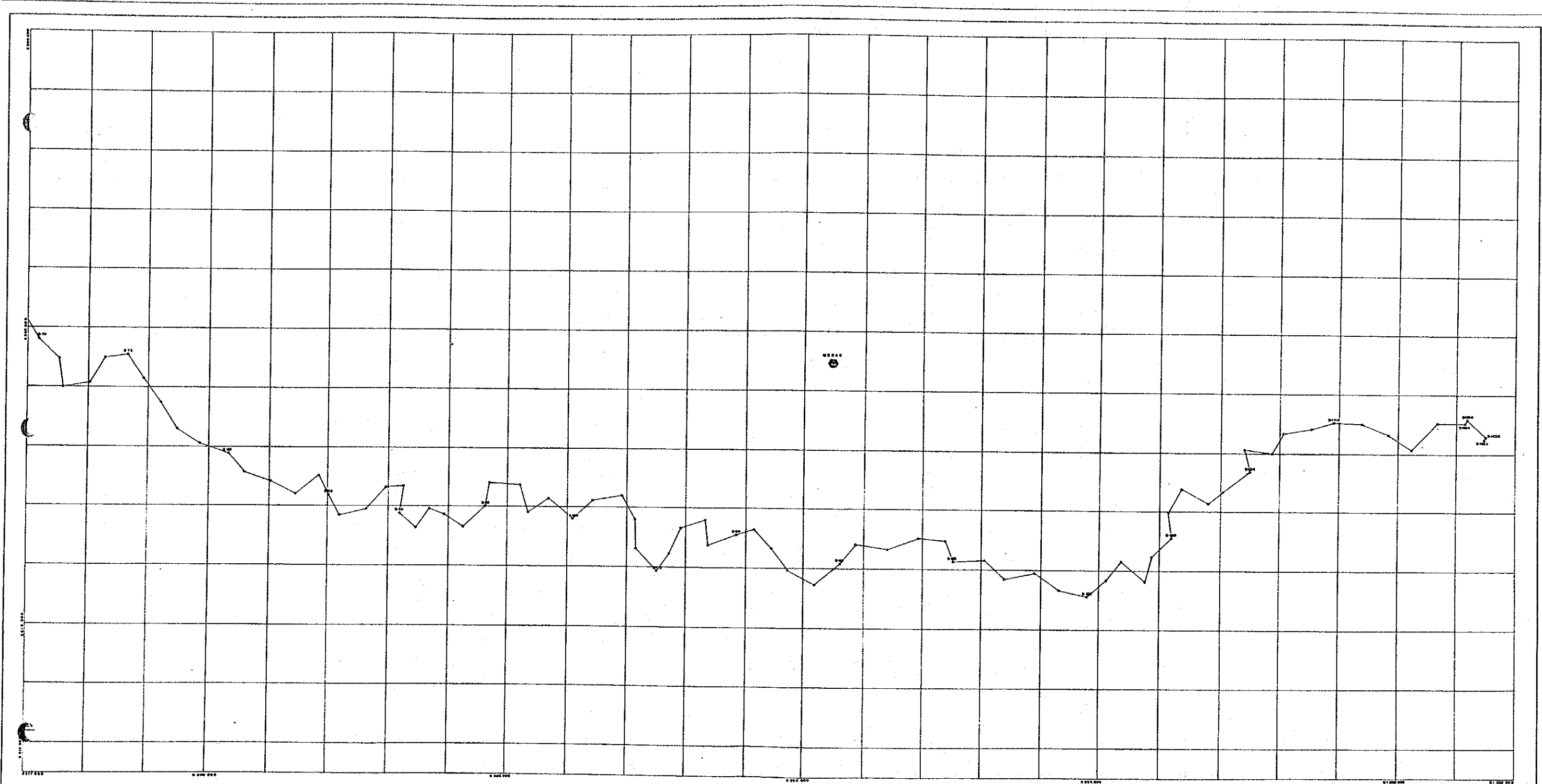
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT

LIST OF DRAWING

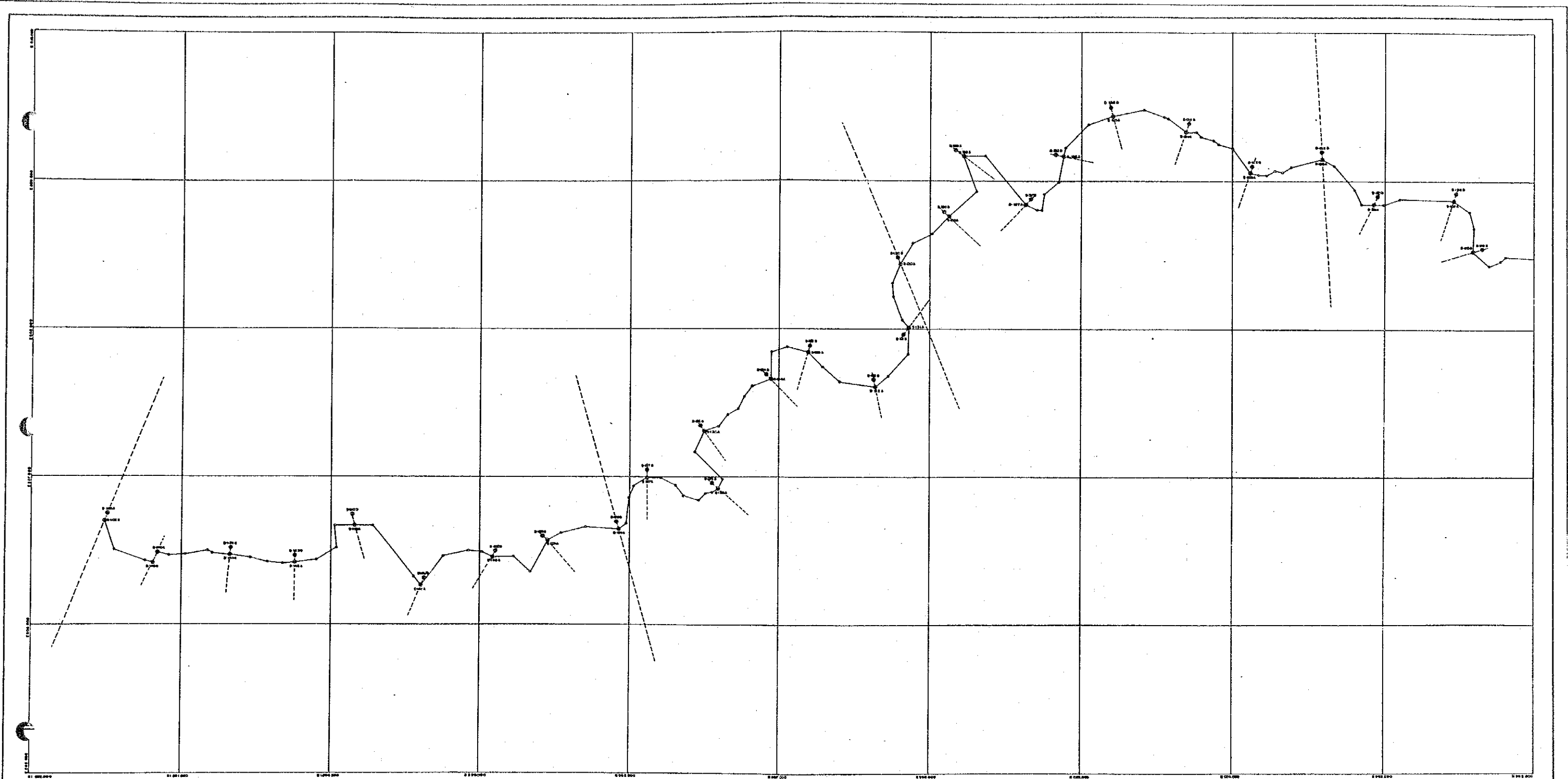
DRAWING N°	TITLE OF DRAWING	DRAWING N°	TITLE OF DRAWING	DRAWING N°	TITLE OF DRAWING
1	SITE PLAN SCALE 1:25.000 (1/2)	14	CROSS SECTION (S-123 S-124 S-125 S-126 S-127 S-128 S-129 S-130)	29	CROSS SECTION (S-19 S-20 S-21 S-22)
2	" " " " (2/2)	15	" " (S-115 S-116 S-117 S-118 S-119 S-120 S-121 S-122)	28	" " (S-15 S-16 S-17 S-18)
3	SITE PLAN SCALE 1:10.000 (1/5)	16	" " (S-107 S-108 S-109 S-110 S-111 S-112 S-113 S-114)	30	" " (S-11 S-12 S-13 S-14)
4	" " " " (2/5)	17	" " (S-99 S-100 S-101 S-102 S-103 S-104 S-105 S-106)	31	" " (S-7 S-8 S-9 S-10)
5	" " " " (3/5)	18	" " (S-91 S-92 S-93 S-94 S-95 S-96 S-97 S-98)	32	" " (S-3 S-4 S-5 S-6)
6	" " " " (4/5)	19	" " (S-83 S-84 S-85 S-86 S-87 S-88 S-89 S-90)	33	" " (S-2)
7	" " " " (5/5)	20	" " (S-75 S-76 S-77 S-78 S-79 S-80 S-81 S-82)	34	" " (S-0 S-1 S-PTE CHAMA)
8	LONGITUDINAL PROFILE (1/4)	21	" " (S-67 S-68 S-69 S-70 S-71 S-72 S-73 S-74)		CROSS SECTION (MIDDLE TO LOWER STREAM)
9	" " " (2/4)	22	" " (S-59 S-60 S-61 S-62 S-63 S-64 S-65 S-66)	35	CROSS SECTION (S-1 S-2 S-3 S-4)
10	" " " (3/4)	23	" " (S-51 S-52 S-53 S-54 S-55 S-56 S-57 S-58)	36	" " (S-5 S-6 S-7)
11	" " " (4/4)	24	" " (S-43 S-44 S-45 S-46 S-47 S-48 S-49 S-50)	37	" " (S-8 S-9 S-10)
	CROSS SECTION (LOWER STREAM)	25	" " (S-35 S-36 S-37 S-38 S-39 S-40 S-41 S-42)	38	" " (S-11 S-12)
12	CROSS SECTION (S-139 S-140 S-141 S-142 S-143 S-144 S-145 S-146)	26	" " (S-27 S-28 S-29 S-30 S-31 S-32 S-33 S-34)	39	" " (S-13 VIA A TOVAR S-13 VIA A MERIDA)
13	" " (S-131 S-132 S-133 S-134 S-135 S-136 S-137 S-138)	27	" " (S-23 S-24 S-25 S-26)	40	" " (S-15)



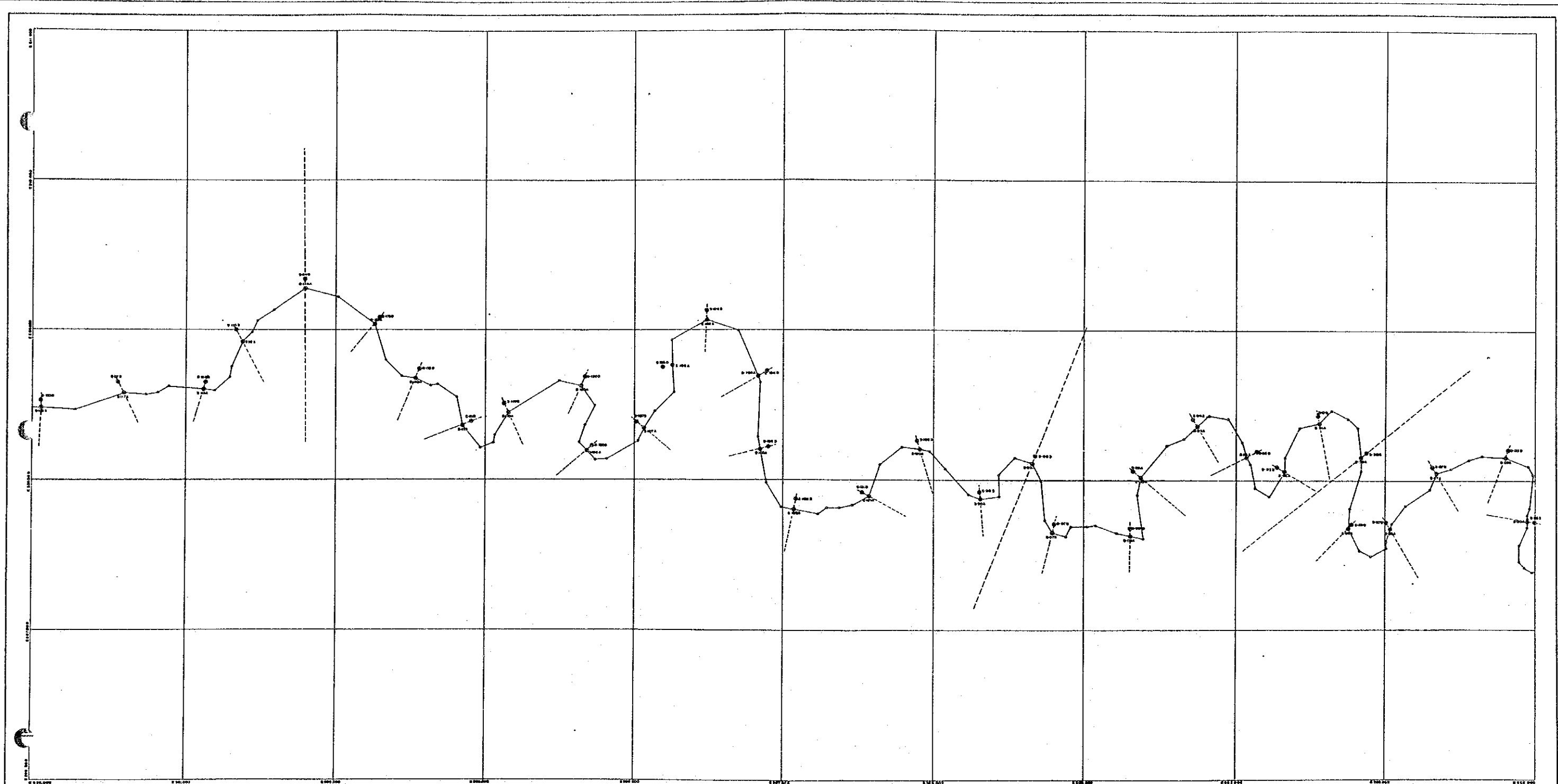
THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
SCALE 1:25,000		CHAMA RIVER	
DESIGNED BY PROYONAL S.A.		SITE PLAN	
DRAWN BY PROYONAL S.A.		(1/2)	
DATE	BY	DATE	BY
		MARCH 1969	
JAPAN INTERNATIONAL COOPERATION AGENCY			



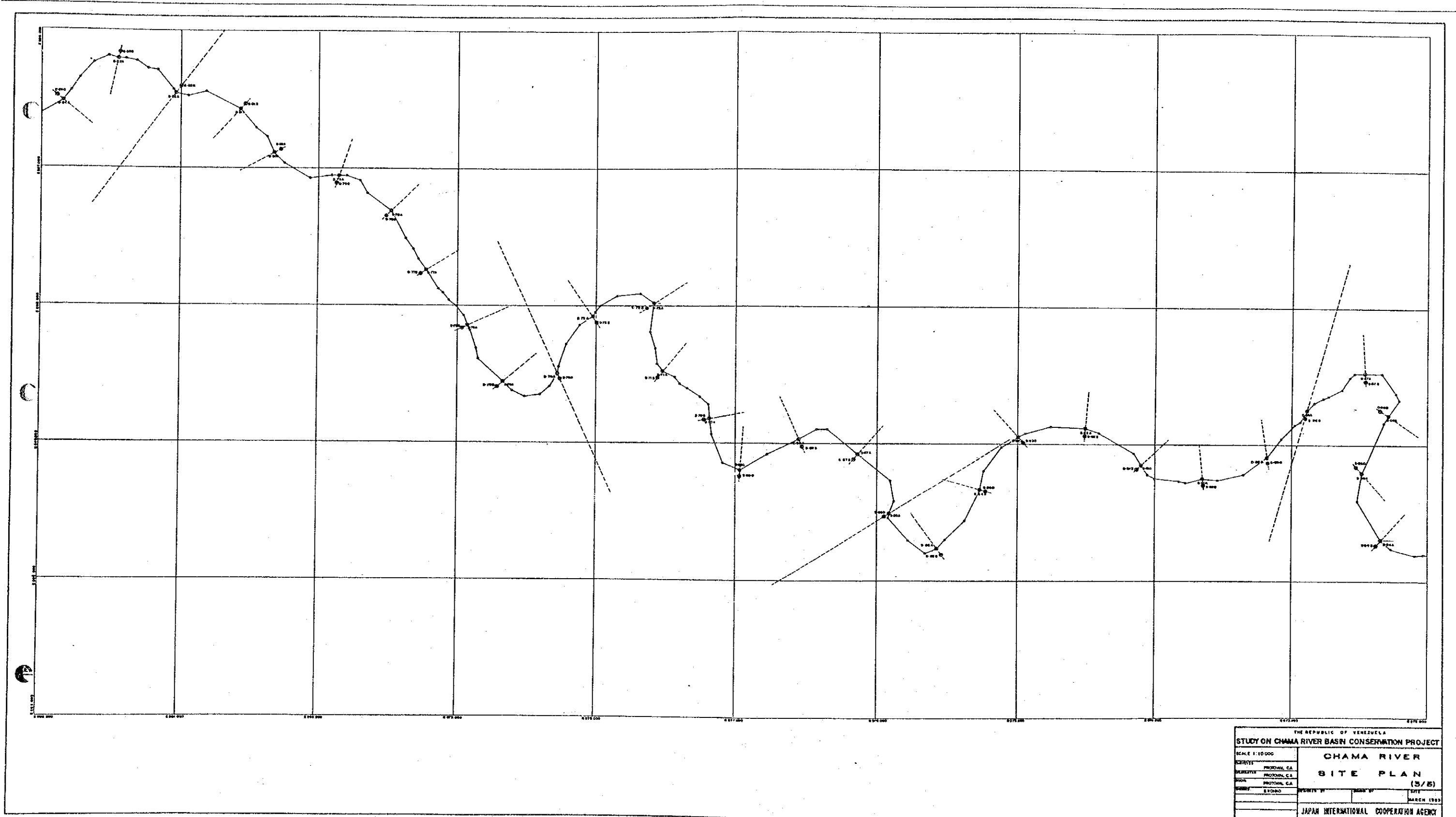
THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
SCALE 1:25,000	CHAMA RIVER		
DESIGNED BY PROTONAL, C.A.	SITE PLAN		
DRAWN BY PROTONAL, C.A.	(2/2)		
CHECKED BY S. KONO	DESIGNED BY	DRAWN BY	DATE
			MARCH 1959
JAPAN INTERNATIONAL COOPERATION AGENCY			

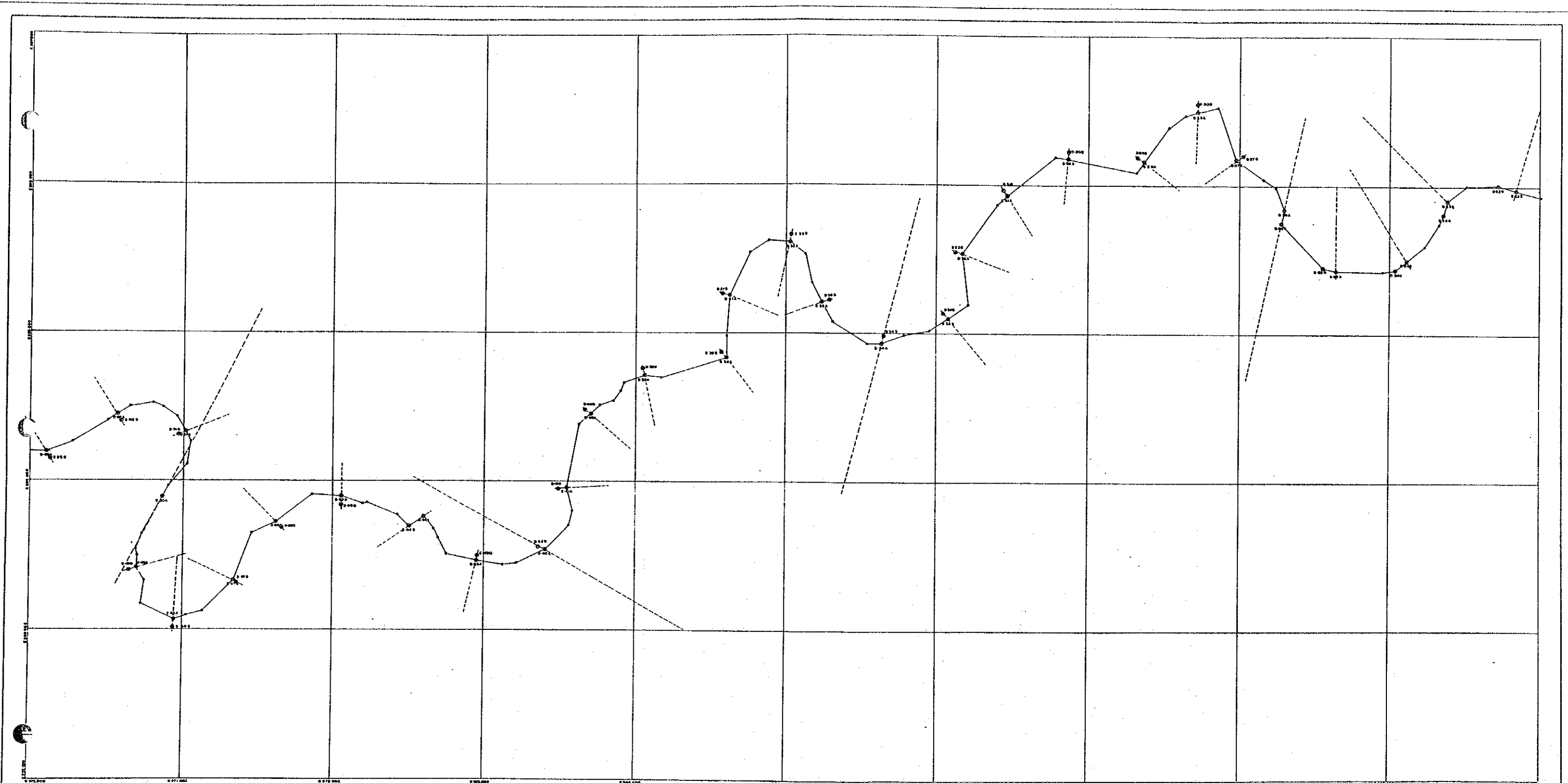


THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
SCALE	1:10,000	CHAMA RIVER	
PROJECT	PROYECTO C.A.	SITE PLAN	
PROYECTO	PROYECTO C.A.	(1/5)	
SERIES	SERIE 5	DATE	MARCH 1969
JAPAN INTERNATIONAL COOPERATION AGENCY			

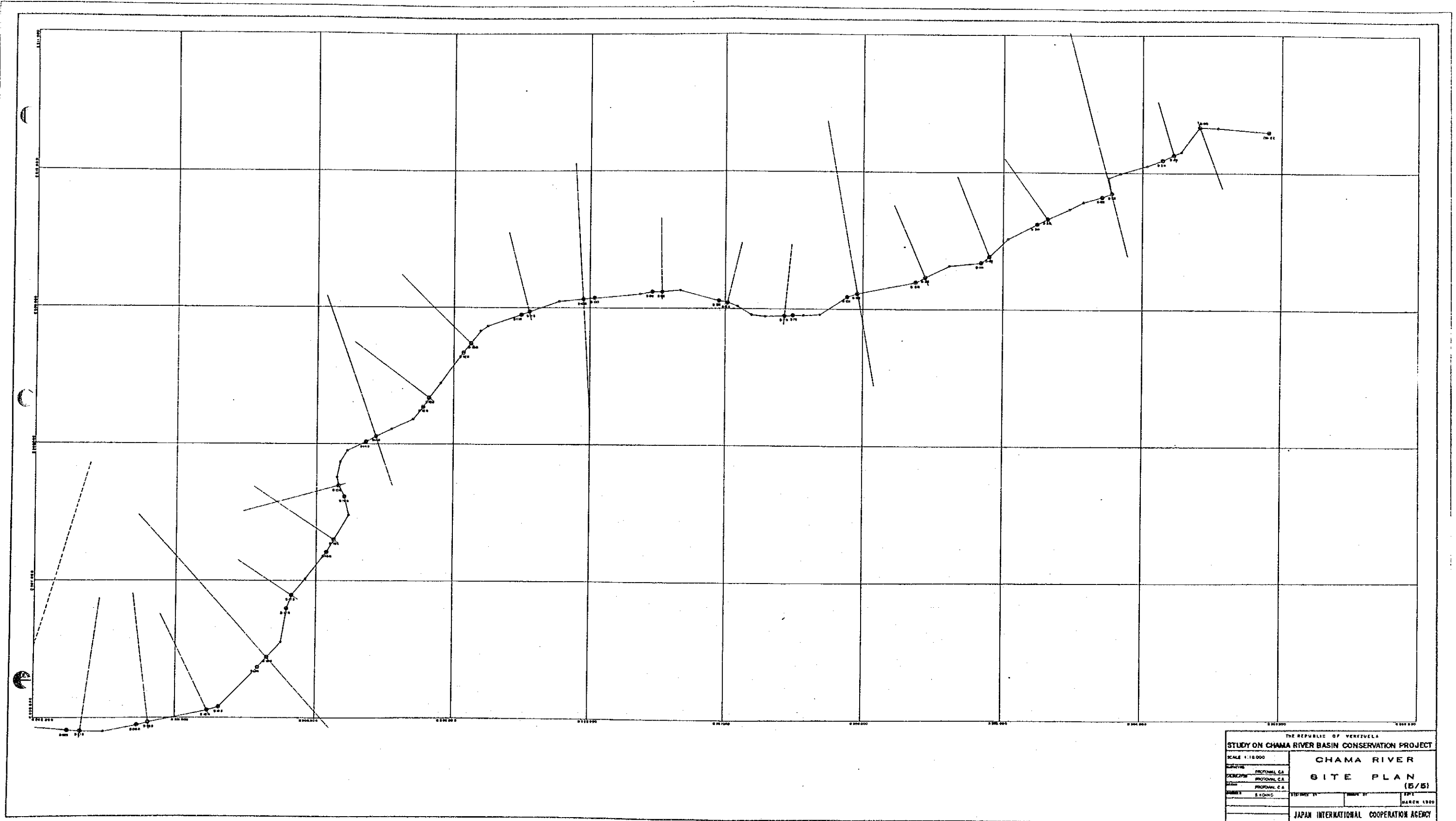


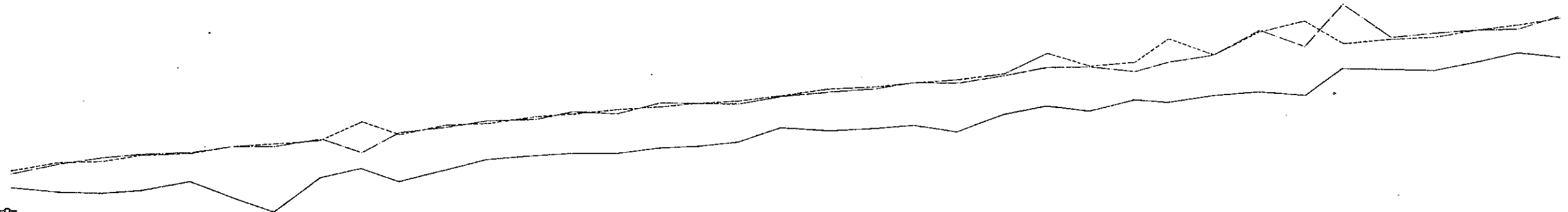
THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
SCALE 1:10000	CHAMA RIVER		
DESIGNED BY	SITE PLAN		
DRAWN BY	(2/5)		
CHECKED BY	DESIGNED BY	DRAWN BY	DATE
			MARCH 1985
JAPAN INTERNATIONAL COOPERATION AGENCY			





THE REPUBLIC OF VENEZUELA	
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT	
SCALE 1:10,000	CHAMA RIVER
PROJECT REGIONAL C.A.	SITE PLAN
EXECUTIVE REGIONAL C.A.	(4/8)
DESIGN REGIONAL C.A.	DATE: MARCH 1980
DRAWN BY: _____	
CHECKED BY: _____	
APPROVED BY: _____	
JAPAN INTERNATIONAL COOPERATION AGENCY	





DATUM - 5

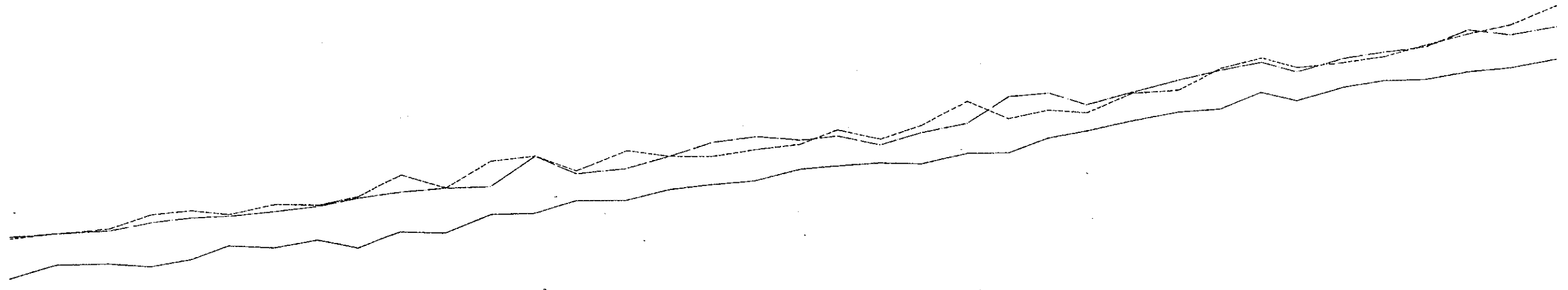
STATION NO	DESIGN ELEVATION (m)			PRESENT ELEVATION (m)			ACCUMULATIVE DISTANCE (m)	DISTANCE (m)
	BANK CROWN	HIGH WATER LEVEL	RIVER BED	LEFT BANK CROWN	RIGHT BANK CROWN	RIVER BED		
8145				11.5	8.8	5.0	0.00	0.00
8146				10.9	8.2	5.0	11.5	11.5
8147				11.0	8.2	5.0	23.0	23.0
8148				11.0	8.2	5.0	34.5	34.5
8149				11.0	8.2	5.0	46.0	46.0
8150				11.0	8.2	5.0	57.5	57.5
8151				11.0	8.2	5.0	69.0	69.0
8152				11.0	8.2	5.0	80.5	80.5
8153				11.0	8.2	5.0	92.0	92.0
8154				11.0	8.2	5.0	103.5	103.5
8155				11.0	8.2	5.0	115.0	115.0
8156				11.0	8.2	5.0	126.5	126.5
8157				11.0	8.2	5.0	138.0	138.0
8158				11.0	8.2	5.0	149.5	149.5
8159				11.0	8.2	5.0	161.0	161.0
8160				11.0	8.2	5.0	172.5	172.5
8161				11.0	8.2	5.0	184.0	184.0
8162				11.0	8.2	5.0	195.5	195.5
8163				11.0	8.2	5.0	207.0	207.0
8164				11.0	8.2	5.0	218.5	218.5
8165				11.0	8.2	5.0	230.0	230.0
8166				11.0	8.2	5.0	241.5	241.5
8167				11.0	8.2	5.0	253.0	253.0
8168				11.0	8.2	5.0	264.5	264.5
8169				11.0	8.2	5.0	276.0	276.0
8170				11.0	8.2	5.0	287.5	287.5
8171				11.0	8.2	5.0	299.0	299.0
8172				11.0	8.2	5.0	310.5	310.5
8173				11.0	8.2	5.0	322.0	322.0
8174				11.0	8.2	5.0	333.5	333.5
8175				11.0	8.2	5.0	345.0	345.0
8176				11.0	8.2	5.0	356.5	356.5
8177				11.0	8.2	5.0	368.0	368.0
8178				11.0	8.2	5.0	379.5	379.5
8179				11.0	8.2	5.0	391.0	391.0
8180				11.0	8.2	5.0	402.5	402.5
8181				11.0	8.2	5.0	414.0	414.0
8182				11.0	8.2	5.0	425.5	425.5
8183				11.0	8.2	5.0	437.0	437.0
8184				11.0	8.2	5.0	448.5	448.5
8185				11.0	8.2	5.0	460.0	460.0
8186				11.0	8.2	5.0	471.5	471.5
8187				11.0	8.2	5.0	483.0	483.0
8188				11.0	8.2	5.0	494.5	494.5
8189				11.0	8.2	5.0	506.0	506.0
8190				11.0	8.2	5.0	517.5	517.5
8191				11.0	8.2	5.0	529.0	529.0
8192				11.0	8.2	5.0	540.5	540.5
8193				11.0	8.2	5.0	552.0	552.0
8194				11.0	8.2	5.0	563.5	563.5
8195				11.0	8.2	5.0	575.0	575.0
8196				11.0	8.2	5.0	586.5	586.5
8197				11.0	8.2	5.0	598.0	598.0
8198				11.0	8.2	5.0	609.5	609.5
8199				11.0	8.2	5.0	621.0	621.0
8200				11.0	8.2	5.0	632.5	632.5

THE REPUBLIC OF VENEZUELA
 STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT

CHAMA RIVER
 LONGITUDINAL PROFILE (1/4)

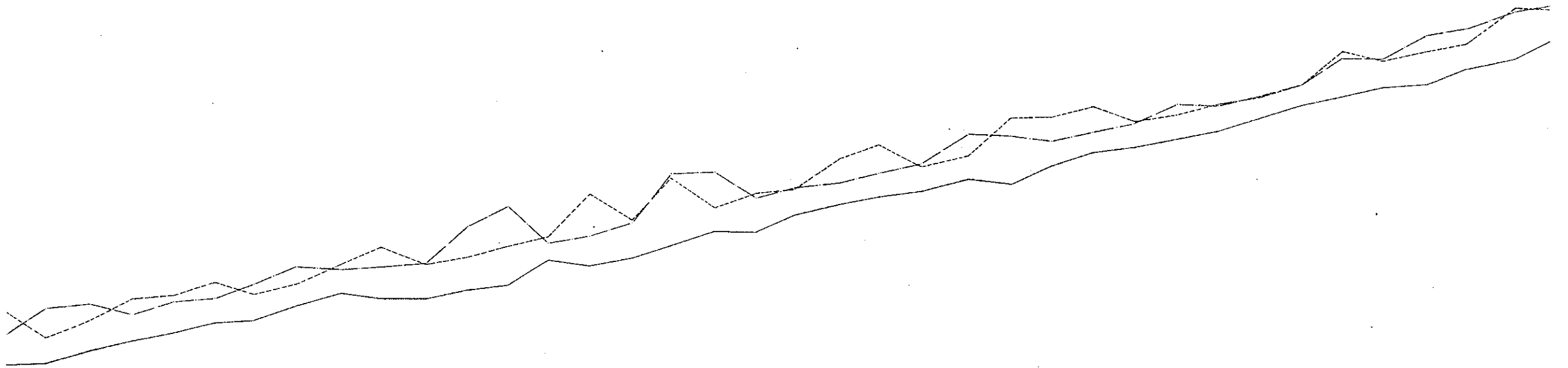
DATE: MARCH 1962

JAPAN INTERNATIONAL COOPERATION AGENCY



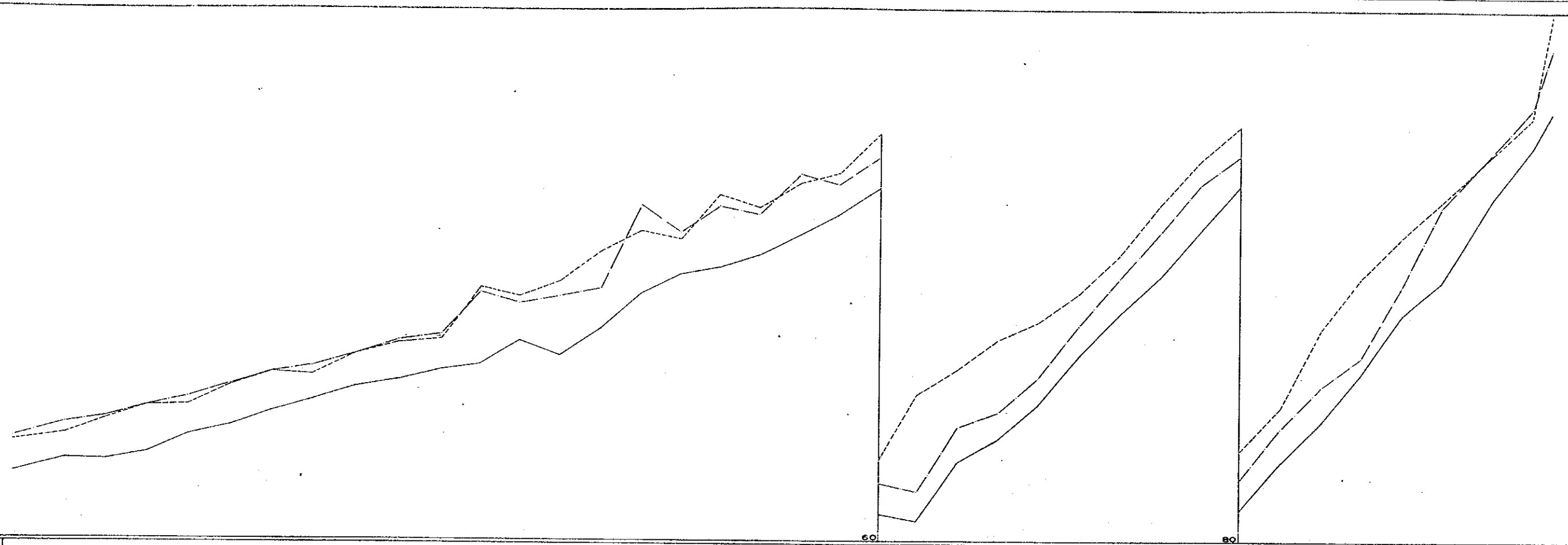
DATUM: 0		DESIGN ELEVATION (m)		PRESENT ELEVATION (m)		ACCUMULATIVE DISTANCE (m)	DISTANCE (m)	STATION NO
	BANK CROWN	HIGH WATER LEVEL	RIVER BED	LEFT BANK CROWN	RIGHT BANK CROWN	RIVER BED		
0.00				12.32	12.32	9.56	51.275	012224
0.05				12.51	12.51	10.75	54.887	001801
0.10				12.82	12.79	10.92	59.893	030727
0.15				13.79	13.89	10.88	59.812	000778
0.20				14.03	13.60	11.10	591.842	003907
0.25				13.93	13.75	11.53	433.905	000237
0.30				14.46	14.04	11.88	530.815	003730
0.35				14.62	14.38	12.35	489.781	007297
0.40				14.89	14.60	14.80	505.665	007580
0.45				15.31	15.31	15.31	318.991	000080
0.50				15.56	15.60	15.80	811.311	004107
0.55				17.22	15.70	14.91	806.440	000127
0.60				17.83	17.83	14.10	749.021	001800
0.65				18.41	18.51	14.87	481.209	001826
0.70				17.88	18.80	14.81	718.039	000286
0.75				17.93	17.93	15.50	328.104	000800
0.80				17.87	18.38	15.38	914.341	000124
0.85				17.97	18.74	16.11	310.481	001820
0.90				18.88	18.88	16.61	523.351	002122
0.95				19.21	19.21	17.03	448.918	000790
1.00				19.30	19.30	17.23	580.727	000800
1.05				19.49	19.09	17.18	482.483	000118
1.10				21.04	20.88	17.08	542.487	000800
1.15				20.01	20.01	17.88	489.780	000230
1.20				20.53	21.55	18.86	477.778	000211
1.25				20.40	20.50	19.30	442.848	000810
1.30				21.88	21.88	19.97	310.883	001800
1.35				21.79	21.79	20.42	548.301	000107
1.40				23.16	23.03	20.68	500.081	000820
1.45				23.74	23.30	21.78	488.027	000820
1.50				23.23	23.23	21.10	482.415	000791
1.55				23.49	23.49	22.08	538.354	000124
1.60				23.87	24.15	22.68	500.738	000800
1.65				24.81	24.81	22.82	807.880	001842
1.70				25.34	25.34	23.88	504.188	000800
1.75				26.29	26.29	23.30	500.881	000940
1.80				27.03	27.03	23.86	513.028	000237

THE REPUBLIC OF VENEZUELA
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT
 CHAMA RIVER
 LONGITUDINAL PROFILE
 (1:2500)
 DATE: MARCH 1993
 JAPAN INTERNATIONAL COOPERATION AGENCY



STATION No	DESIGN ELEVATION (m)			PRESENT ELEVATION (m)			ACCUMULATIVE DISTANCE (m)	DISTANCE (m)
	BANK CROWN	HIGH WATER LEVEL	RIVER BED	LEFT BANK CROWN	RIGHT BANK CROWN	RIVER BED		
874				87.01			113.028	113.028
875				87.93			106.488	107.077
876				86.07			114.787	108.100
877				87.88			114.961	108.349
878				88.82			116.343	108.681
879				88.01			145.021	108.713
880				88.58			147.418	108.733
881				88.88			100.863	108.788
882				88.86			181.875	108.811
883				88.02			179.776	108.847
884				88.16			131.828	108.870
885				88.98			100.732	108.877
886				88.35			143.328	108.913
887				88.20			100.340	108.943
888				84.49			101.843	108.942
889				88.91			112.820	108.940
890				88.86			158.820	108.940
891				88.86			158.820	108.940
892				88.86			158.820	108.940
893				88.86			158.820	108.940
894				88.86			158.820	108.940
895				88.86			158.820	108.940
896				88.86			158.820	108.940
897				88.86			158.820	108.940
898				88.86			158.820	108.940
899				88.86			158.820	108.940
900				88.86			158.820	108.940
901				88.86			158.820	108.940
902				88.86			158.820	108.940
903				88.86			158.820	108.940
904				88.86			158.820	108.940
905				88.86			158.820	108.940
906				88.86			158.820	108.940
907				88.86			158.820	108.940
908				88.86			158.820	108.940
909				88.86			158.820	108.940
910				88.86			158.820	108.940
911				88.86			158.820	108.940
912				88.86			158.820	108.940
913				88.86			158.820	108.940
914				88.86			158.820	108.940
915				88.86			158.820	108.940
916				88.86			158.820	108.940
917				88.86			158.820	108.940
918				88.86			158.820	108.940
919				88.86			158.820	108.940
920				88.86			158.820	108.940
921				88.86			158.820	108.940
922				88.86			158.820	108.940
923				88.86			158.820	108.940
924				88.86			158.820	108.940
925				88.86			158.820	108.940
926				88.86			158.820	108.940
927				88.86			158.820	108.940

THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
NO. 100-000		CHAMA RIVER	
NO. 100-000		CHAMA RIVER	
DESIGNED BY	PROF. DR. A. G. MORALES	DATE	MARCH 1969
DRAWN BY	PROF. DR. A. G. MORALES	DATE	MARCH 1969
CHECKED BY	PROF. DR. A. G. MORALES	DATE	MARCH 1969
APPROVED BY	PROF. DR. A. G. MORALES	DATE	MARCH 1969
JAPAN INTERNATIONAL COOPERATION AGENCY			

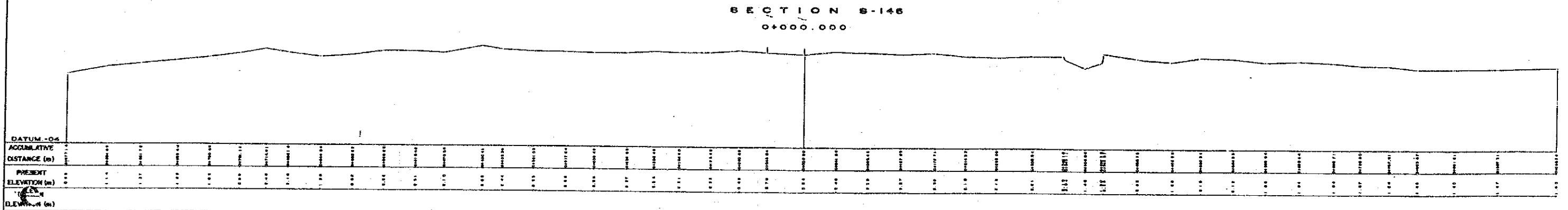
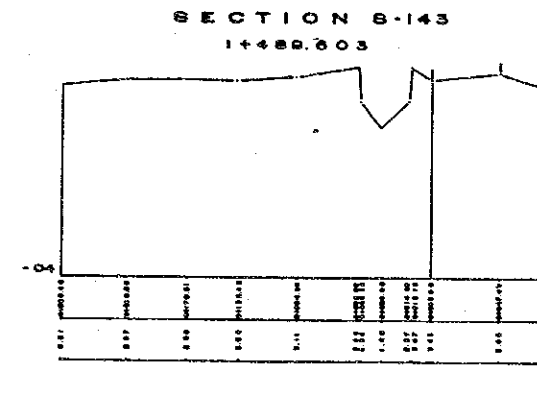
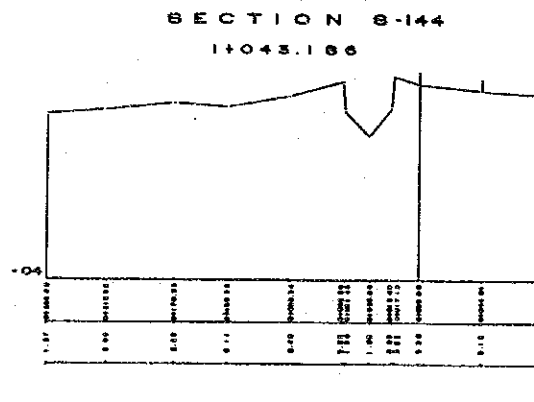
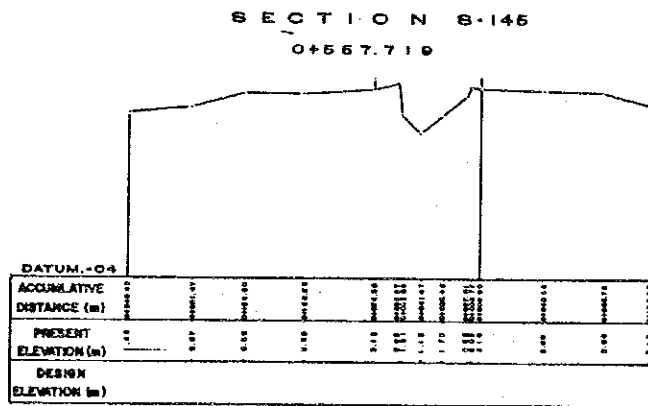
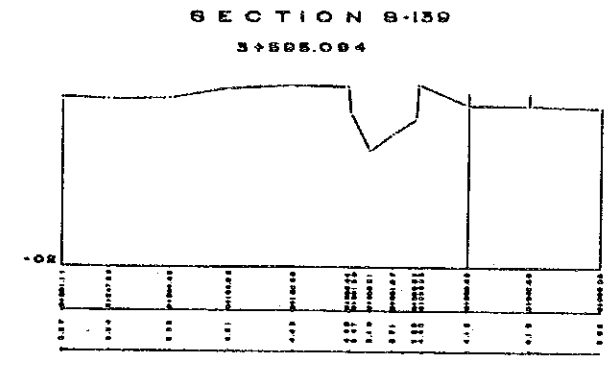
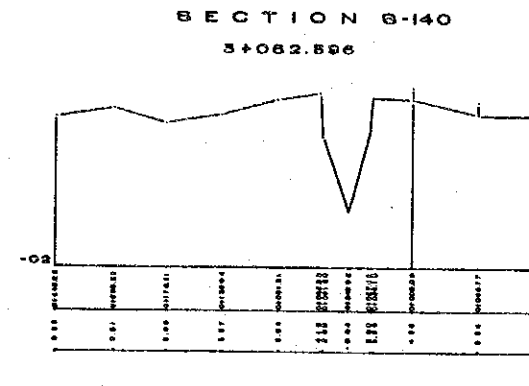
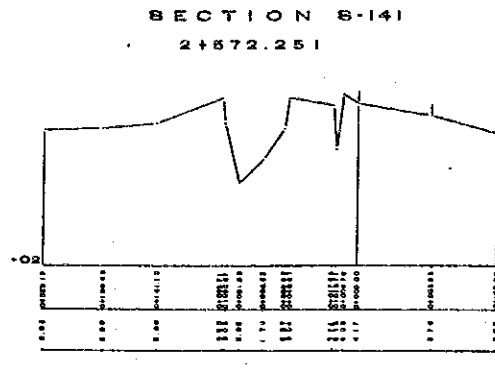
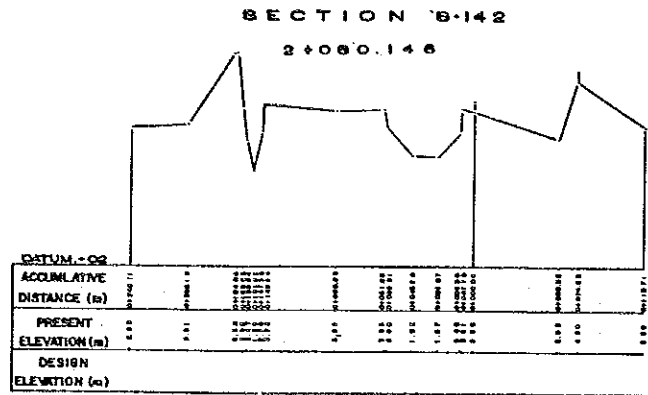


STATION No	DISTANCE (m)	ACCUMULATIVE DISTANCE (m)	PRESENT ELEVATION (m)			DESIGN ELEVATION (m)		
			RIVER BED	RIGHT BANK CROWN	LEFT BANK CROWN	RIVER BED	HIGH WATER LEVEL	BANK CROWN
8.27	412.891	20289.74	45.08	49.27	42.03			
8.28	413.000	20290.83	44.94	47.12	45.46			
8.29	413.113	20291.96	44.89	47.49	47.31			
8.30	413.230	20293.29	44.83	48.19	48.19			
8.31	413.345	20294.63	44.91	49.73	49.23			
8.32	413.468	20296.10	45.50	49.93	49.47			
8.33	413.598	20297.69	47.68	50.29	50.30			
8.34	413.735	20299.43	48.56	50.68	50.18			
8.35	413.878	20301.32	49.40	51.45	51.45			
8.36	414.025	20303.37	52.26	52.26	52.14			
8.37	414.178	20305.56	50.45	52.63	52.30			
8.38	414.335	20307.91	50.91	52.92	52.97			
8.39	414.498	20312.39	52.22	54.86	55.02			
8.40	414.665	20317.04	51.31	54.99	55.91			
8.41	414.835	20321.88	53.04	55.46	57.74			
8.42	415.008	20326.92	55.15	55.98	59.01			
8.43	415.185	20332.17	56.35	56.91	58.93			
8.44	415.365	20337.64	56.78	57.68	61.51			
8.45	415.548	20343.33	57.48	58.28	60.42			
8.46	415.735	20349.28	58.79	58.93	61.94			
8.47	415.925	20355.41	60.00	61.82	62.07			
8.48	416.118	20361.84	61.67	63.85	65.01			
8.49	416.315	20368.57	61.80	63.96	66.88			
8.50	416.515	20375.61	64.84	67.66	70.87			
8.51	416.718	20382.96	66.38	67.89	72.88			
8.52	416.925	20390.64	66.39	70.04	76.45			
8.53	417.135	20398.68	71.39	73.93	79.81			
8.54	417.348	20407.09	74.01	76.20	77.88			
8.55	417.565	20415.76	78.32	78.03	80.79			
8.56	417.785	20424.75	79.08	81.88	83.38			
8.57	418.008	20434.07	81.90	83.77	85.85			
8.58	418.235	20443.74	84.20	86.81	88.81			
8.59	418.465	20453.78	87.31	90.81	92.00			
8.60	418.700	20464.18	90.32	94.31	95.19			
8.61	418.940	20474.94	93.90	98.89	98.72			
8.62	419.185	20486.06	98.01	103.95	100.91			
8.63	419.435	20497.55	101.14	109.36	103.82			
8.64	419.690	20509.44	104.50	115.11	106.11			
8.65	419.950	20521.74	108.45	121.31	112.39			

THE REPUBLIC OF VENEZUELA

STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT

PROJECT:	CHAMA RIVER
LOCATION:	LONGITUDINAL PROFILE (4/4)
SCALE:	
DRAWN BY:	DATE:
CHECKED BY:	DATE:
JAPAN INTERNATIONAL COOPERATION AGENCY	



THE REPUBLIC OF VENEZUELA	
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT	
CHAMA RIVER	
CROSS SECTIONS (1/200)	
DATE: 1989	SECTION: B-139 B-140 B-141 B-142 B-143
SCALE: 1/200	SECTION: B-144 B-145 B-146
PROJECT: J. S. SANCHEZ	DATE: MARCH 1989
JAPAN INTERNATIONAL COOPERATION AGENCY	

SECTION S-126
10+161.333

DATUM: O1									
ACCUMULATIVE DISTANCE (m)	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00
PRESENT ELEVATION (m)	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
DESIGN ELEVATION (m)	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00

SECTION S-125
10+819.271

DATUM: O1									
ACCUMULATIVE DISTANCE (m)	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00
PRESENT ELEVATION (m)	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
DESIGN ELEVATION (m)	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00

SECTION S-124
11+141.046

DATUM: O1									
ACCUMULATIVE DISTANCE (m)	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00
PRESENT ELEVATION (m)	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
DESIGN ELEVATION (m)	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00

SECTION S-123
11+682.174

DATUM: O1									
ACCUMULATIVE DISTANCE (m)	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00
PRESENT ELEVATION (m)	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
DESIGN ELEVATION (m)	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00

SECTION S-129
8+559.766

DATUM: O1									
ACCUMULATIVE DISTANCE (m)	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00
PRESENT ELEVATION (m)	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
DESIGN ELEVATION (m)	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00

SECTION S-128
9+073.084

DATUM: O1									
ACCUMULATIVE DISTANCE (m)	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00
PRESENT ELEVATION (m)	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
DESIGN ELEVATION (m)	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00

SECTION S-127
9+637.059

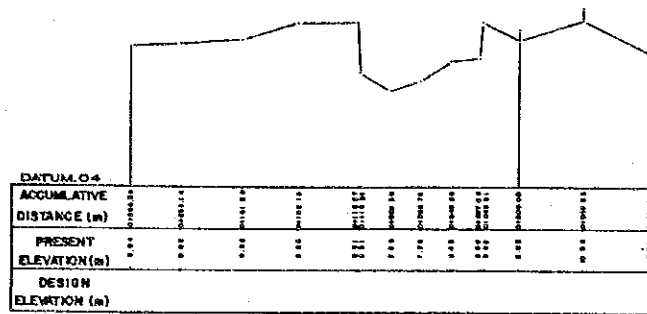
DATUM: O1									
ACCUMULATIVE DISTANCE (m)	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00
PRESENT ELEVATION (m)	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
DESIGN ELEVATION (m)	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00

SECTION S-130
8+090.350

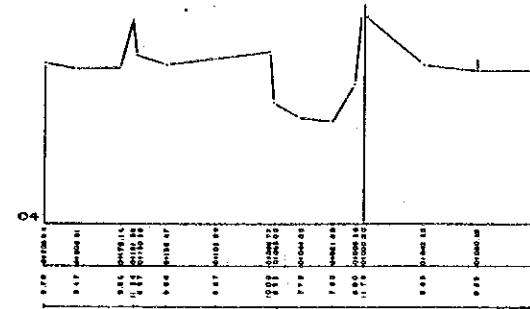
DATUM: O1																															
ACCUMULATIVE DISTANCE (m)	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	24.00	25.00	26.00	27.00	28.00	29.00	30.00
PRESENT ELEVATION (m)	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
DESIGN ELEVATION (m)	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00

THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
CHAMA RIVER			
CROSS SECTIONS (3/25)			
NO.	DATE	BY	DATE
1	1980
JAPAN INTERNATIONAL COOPERATION AGENCY			

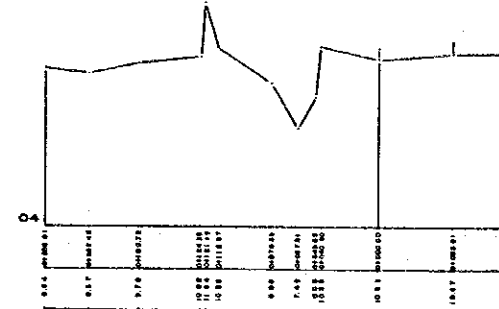
SECTION 8-118
14+172.254



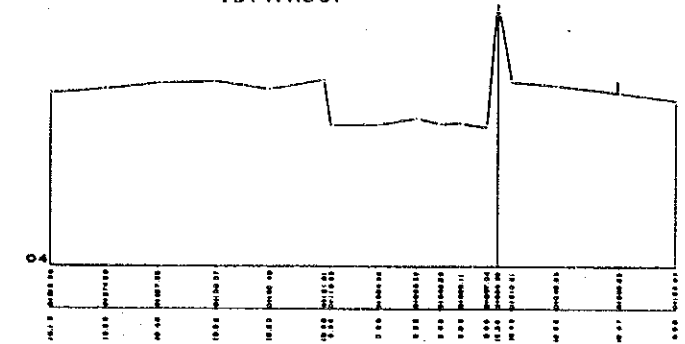
SECTION 8-117
14+720.789



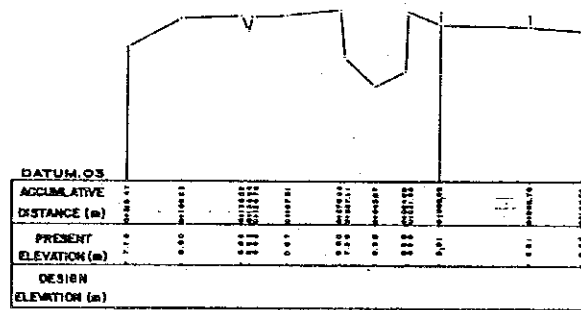
SECTION 8-116
15+265.135



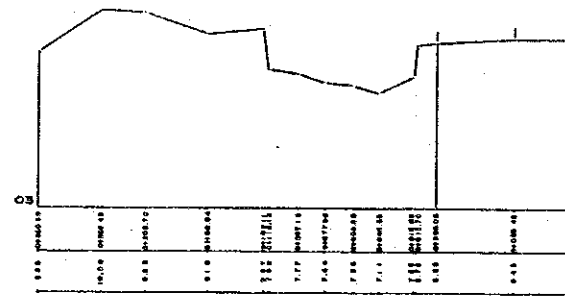
SECTION 8-115
15+714.891



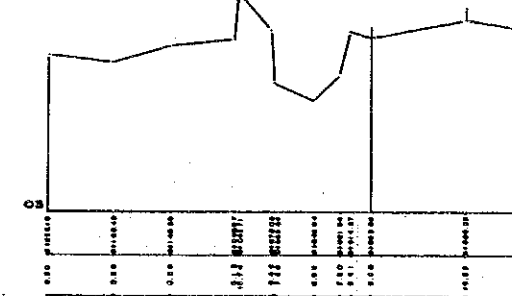
SECTION 8-121
12+700.542



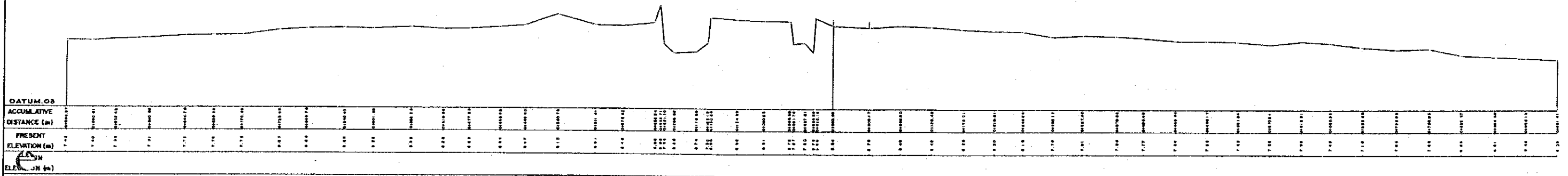
SECTION 8-120
13+240.820



SECTION 8-119
13+640.954



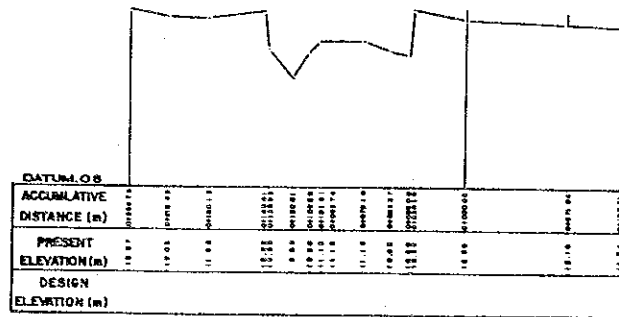
SECTION 8-122
12+188.744



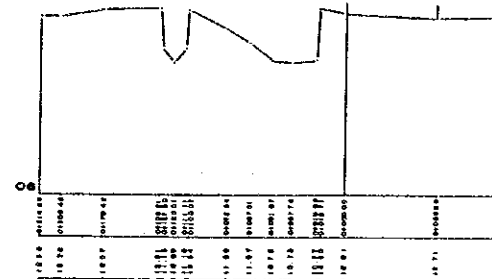
THE REPUBLIC OF VENEZUELA
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT

PROJECTED	CHAMA RIVER
PROSECUTOR	CROSS SECTIONS (4/88)
SECTION	8-115 8-116 8-117 8-118 8-119
	8-120 8-121 8-122
DATE	REVISIONS
	DATE
	MARCH 1988
JAPAN INTERNATIONAL COOPERATION AGENCY	

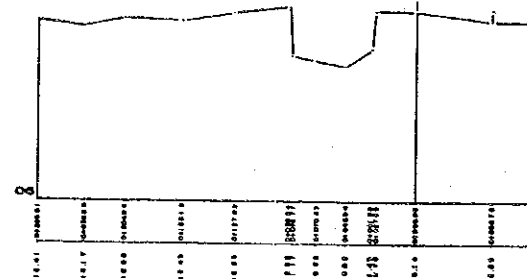
SECTION S-110
18+332.245



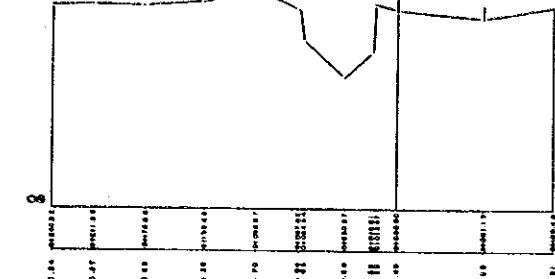
SECTION S-109
18+578.012



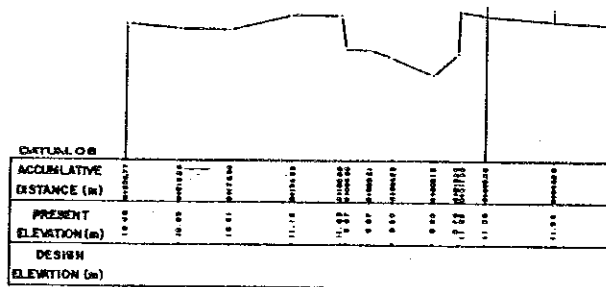
SECTION S-108
19+387.277



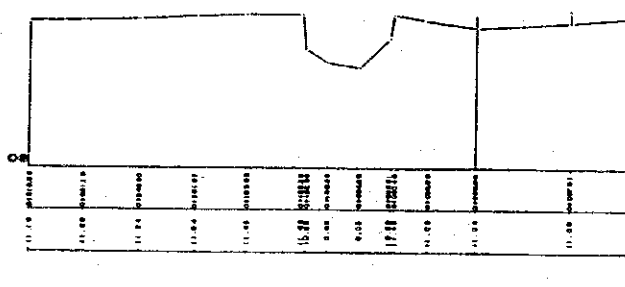
SECTION S-107
19+887.789



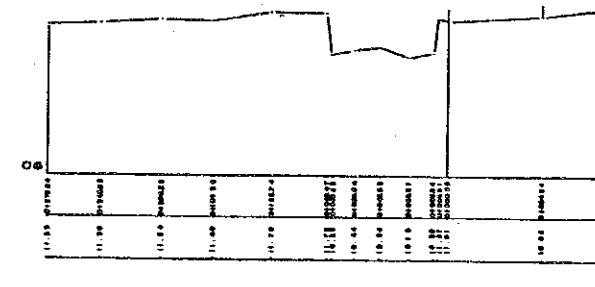
SECTION S-113
16+807.160



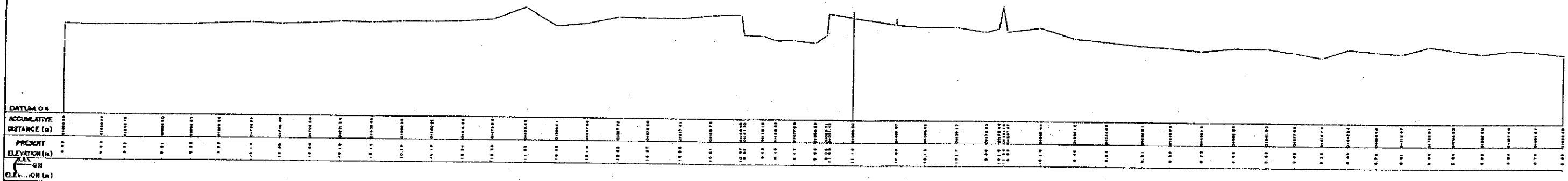
SECTION S-112
17+314.249



SECTION S-111
17+819.452



SECTION S-114
16+280.355

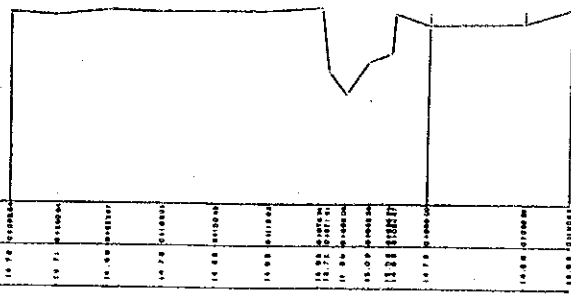


THE REPUBLIC OF VENEZUELA
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT

CHAMA RIVER
CROSS SECTIONS (8/33)
S-107 S-108 S-109 S-110 S-111
S-112 S-113 S-114

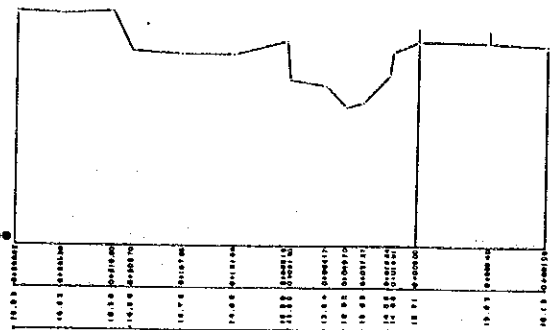
DATE: MARCH 1993
AGENCY: JAPAN INTERNATIONAL COOPERATION AGENCY

SECTION 8-102
22+573.867



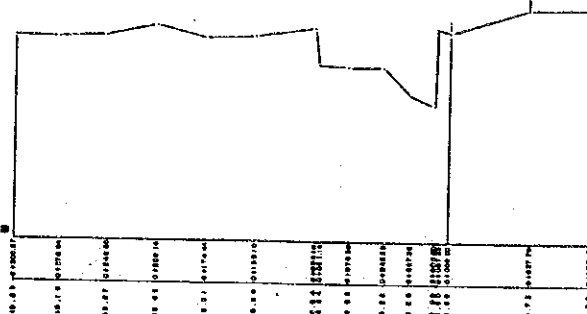
DATUM, OB										
ACCUMULATIVE DISTANCE (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00
PRESENT ELEVATION (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00
DESIGN ELEVATION (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00

SECTION 8-101
22+900.848



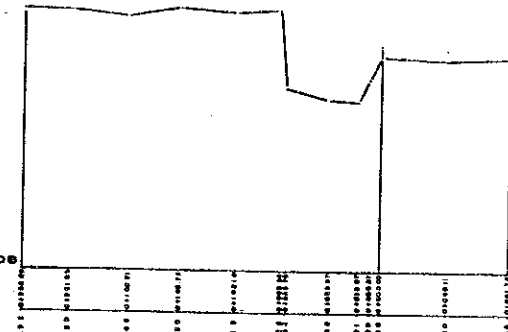
DATUM, OB										
ACCUMULATIVE DISTANCE (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00
PRESENT ELEVATION (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00
DESIGN ELEVATION (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00

SECTION 8-100
23+426.079



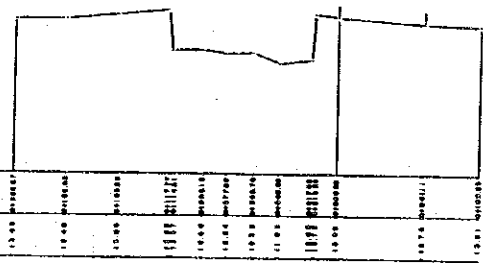
DATUM, OB										
ACCUMULATIVE DISTANCE (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00
PRESENT ELEVATION (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00
DESIGN ELEVATION (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00

SECTION 8-99
23+978.827



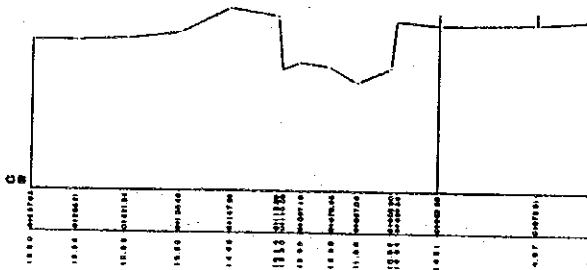
DATUM, OB										
ACCUMULATIVE DISTANCE (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00
PRESENT ELEVATION (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00
DESIGN ELEVATION (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00

SECTION 8-106
20+922.873



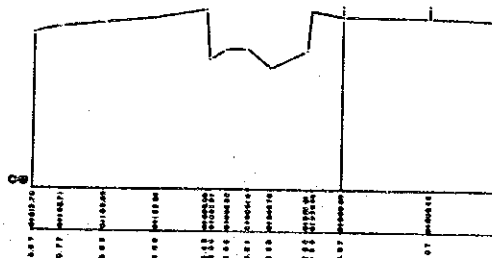
DATUM, OB										
ACCUMULATIVE DISTANCE (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00
PRESENT ELEVATION (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00
DESIGN ELEVATION (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00

SECTION 8-104
21+375.508



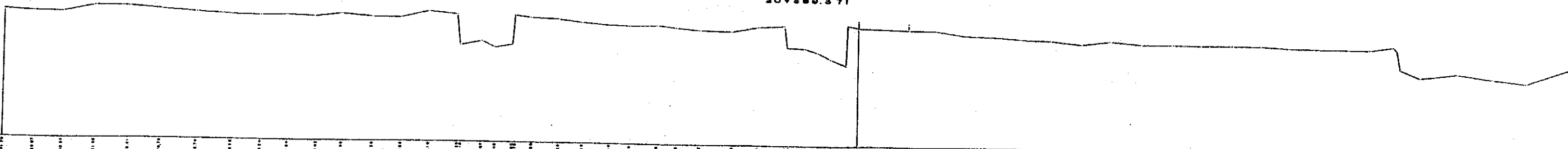
DATUM, OB										
ACCUMULATIVE DISTANCE (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00
PRESENT ELEVATION (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00
DESIGN ELEVATION (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00

SECTION 8-105
21+875.299



DATUM, OB										
ACCUMULATIVE DISTANCE (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00
PRESENT ELEVATION (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00
DESIGN ELEVATION (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00

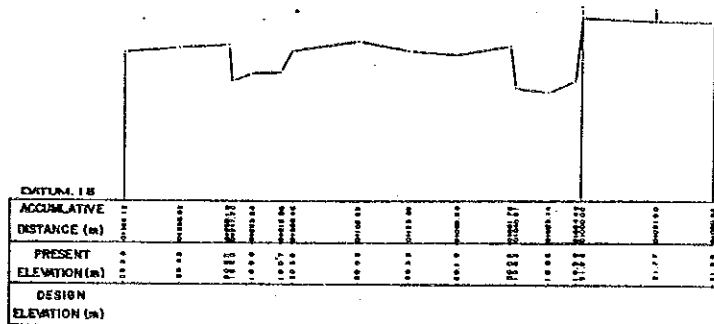
SECTION 8-108
20+389.371



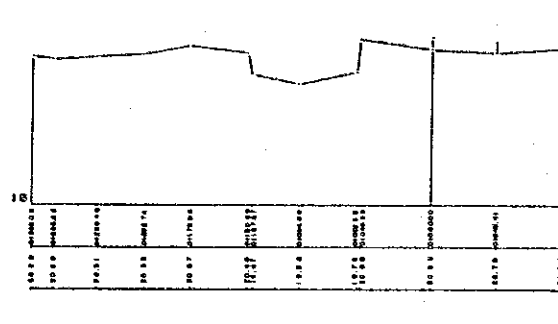
DATUM, OB																																								
ACCUMULATIVE DISTANCE (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	24.00	25.00	26.00	27.00	28.00	29.00	30.00	31.00	32.00	33.00	34.00	35.00	36.00	37.00	38.00	39.00	40.00													
PRESENT ELEVATION (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	24.00	25.00	26.00	27.00	28.00	29.00	30.00	31.00	32.00	33.00	34.00	35.00	36.00	37.00	38.00	39.00	40.00	41.00	42.00	43.00	44.00	45.00	46.00	47.00	48.00	49.00	50.00			
DESIGN ELEVATION (m)	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	24.00	25.00	26.00	27.00	28.00	29.00	30.00	31.00	32.00	33.00	34.00	35.00	36.00	37.00	38.00	39.00	40.00	41.00	42.00	43.00	44.00	45.00	46.00	47.00	48.00	49.00	50.00			

THE REPUBLIC OF VENEZUELA	
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT	
NO. 1000	CHAMA RIVER
NO. 1001	CROSS SECTIONS (S/S)
NO. 1002	8-99 8-100 8-101 8-102 8-103
NO. 1003	8-104 8-105 8-106
NO. 1004	8-108
NO. 1005	DATE
NO. 1006	MARCH 1986
JAPAN INTERNATIONAL COOPERATION AGENCY	

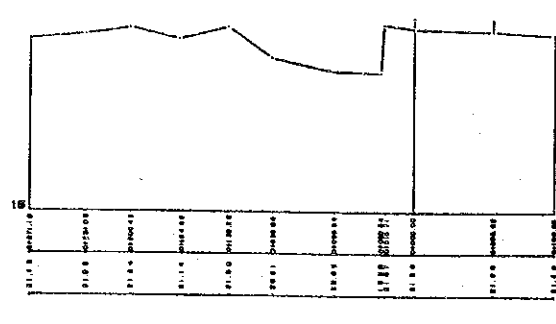
SECTION 8-86
30+821.169



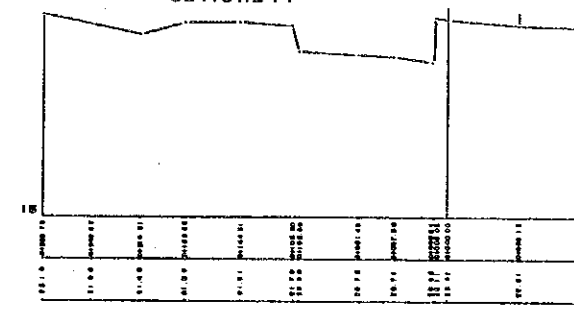
SECTION 8-85
31+086.116



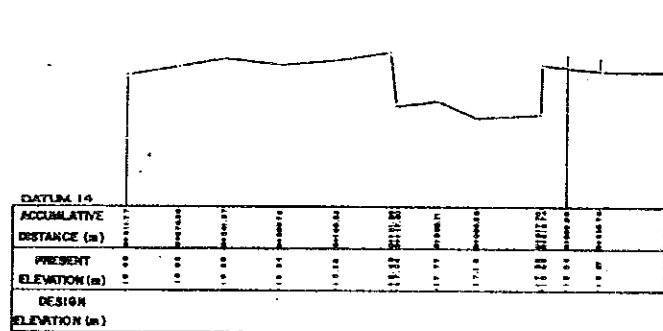
SECTION 8-84
31+638.970



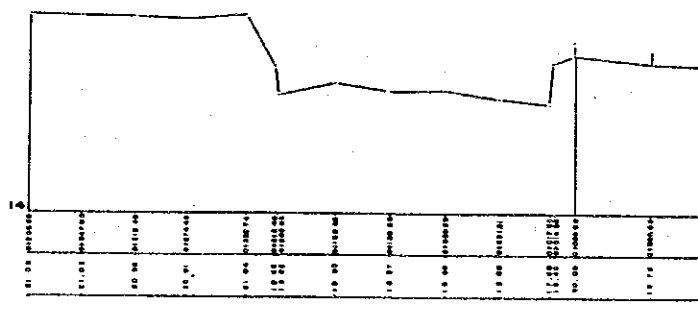
SECTION 8-83
32+181.271



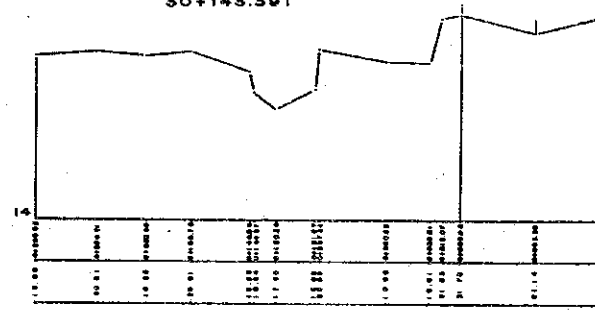
SECTION 8-89
29+101.168



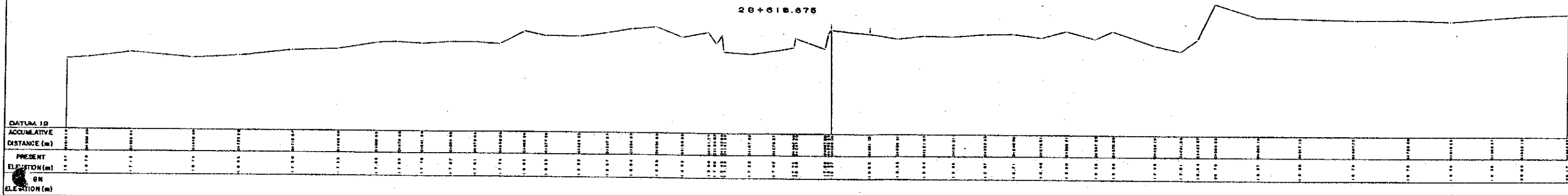
SECTION 8-88
29+643.666



SECTION 8-87
30+143.391



SECTION 8-90
28+618.675



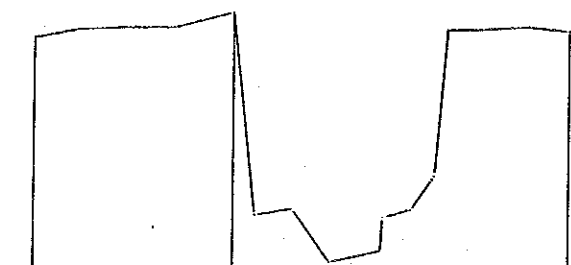
THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
DATE: 1980		1:1	
PROJECT: CHAMA RIVER		CROSS SECTIONS (8/25)	
DRAWN: PROYONAL C.A.		8-83 8-84 8-85 8-86 8-87	
CHECKED: PROYONAL C.A.		8-88 8-89 8-90	
DATE: 1980		DATE: 87	DATE: 87
JAPAN INTERNATIONAL COOPERATION AGENCY			

SECTION 8-77
35+154.422



DATUM 20	
ACCUMULATIVE DISTANCE (m)	PRESENT ELEVATION (m)
0.00	88.00
5.00	88.00
10.00	88.00
15.00	88.00
20.00	88.00
25.00	88.00
30.00	88.00
35.00	88.00
40.00	88.00
45.00	88.00
50.00	88.00

SECTION PTE. CHAMA

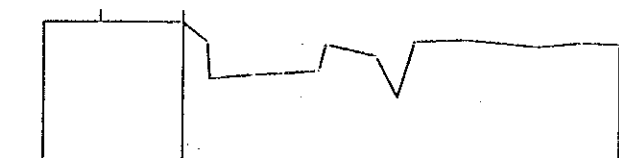


SECTION 8-76
35+658.588



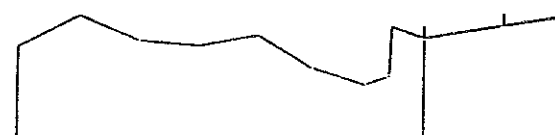
ACCUMULATIVE DISTANCE (m)	PRESENT ELEVATION (m)
0.00	88.00
5.00	88.00
10.00	88.00
15.00	88.00
20.00	88.00
25.00	88.00
30.00	88.00
35.00	88.00
40.00	88.00
45.00	88.00
50.00	88.00

SECTION 8-75
35+159.547



ACCUMULATIVE DISTANCE (m)	PRESENT ELEVATION (m)
0.00	88.00
5.00	88.00
10.00	88.00
15.00	88.00
20.00	88.00
25.00	88.00
30.00	88.00
35.00	88.00
40.00	88.00
45.00	88.00
50.00	88.00

SECTION 8-81
35+182.379



DATUM 10	
ACCUMULATIVE DISTANCE (m)	PRESENT ELEVATION (m)
0.00	88.00
5.00	88.00
10.00	88.00
15.00	88.00
20.00	88.00
25.00	88.00
30.00	88.00
35.00	88.00
40.00	88.00
45.00	88.00
50.00	88.00

SECTION 8-80
35+804.792



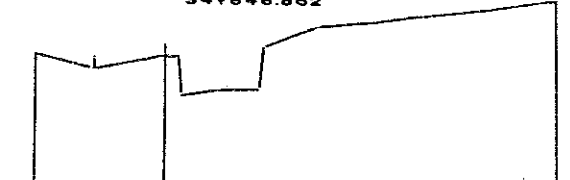
ACCUMULATIVE DISTANCE (m)	PRESENT ELEVATION (m)
0.00	88.00
5.00	88.00
10.00	88.00
15.00	88.00
20.00	88.00
25.00	88.00
30.00	88.00
35.00	88.00
40.00	88.00
45.00	88.00
50.00	88.00

SECTION 8-78
34+141.126



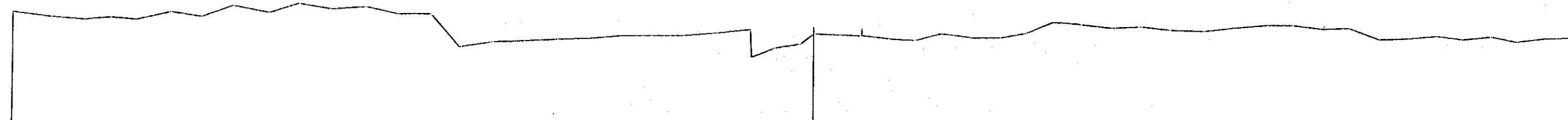
ACCUMULATIVE DISTANCE (m)	PRESENT ELEVATION (m)
0.00	88.00
5.00	88.00
10.00	88.00
15.00	88.00
20.00	88.00
25.00	88.00
30.00	88.00
35.00	88.00
40.00	88.00
45.00	88.00
50.00	88.00

SECTION 8-78
34+646.862



ACCUMULATIVE DISTANCE (m)	PRESENT ELEVATION (m)
0.00	88.00
5.00	88.00
10.00	88.00
15.00	88.00
20.00	88.00
25.00	88.00
30.00	88.00
35.00	88.00
40.00	88.00
45.00	88.00
50.00	88.00

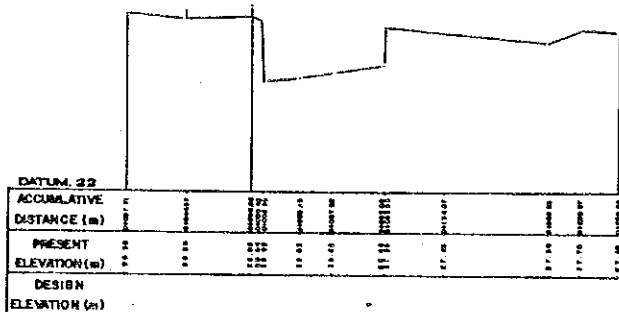
SECTION 8-82
32+886.352



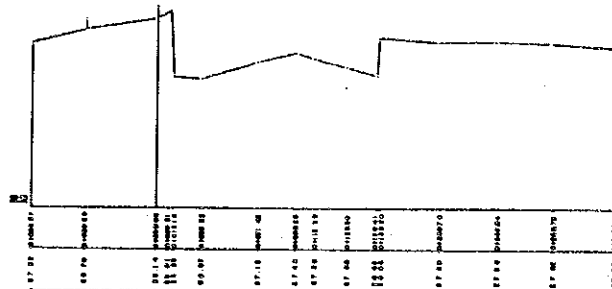
DATUM 10	
ACCUMULATIVE DISTANCE (m)	PRESENT ELEVATION (m)
0.00	88.00
5.00	88.00
10.00	88.00
15.00	88.00
20.00	88.00
25.00	88.00
30.00	88.00
35.00	88.00
40.00	88.00
45.00	88.00
50.00	88.00
55.00	88.00
60.00	88.00
65.00	88.00
70.00	88.00
75.00	88.00
80.00	88.00
85.00	88.00
90.00	88.00
95.00	88.00
100.00	88.00
105.00	88.00
110.00	88.00
115.00	88.00
120.00	88.00
125.00	88.00
130.00	88.00
135.00	88.00
140.00	88.00
145.00	88.00
150.00	88.00
155.00	88.00
160.00	88.00
165.00	88.00
170.00	88.00
175.00	88.00
180.00	88.00
185.00	88.00
190.00	88.00
195.00	88.00
200.00	88.00

THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
CHAMA RIVER			
CROSS SECTIONS (8/83)			
8-75 8-76 8-77 8-78 8-79			
8-80 8-81 8-82			
DATE	PROJECT	BY	SCALE
MARCH 1983			
JAPAN INTERNATIONAL COOPERATION AGENCY			

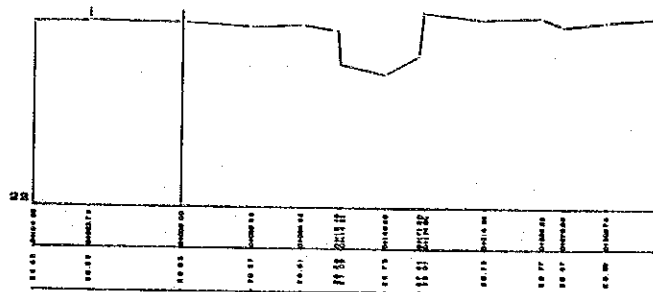
SECTION 8-70
36+722.692



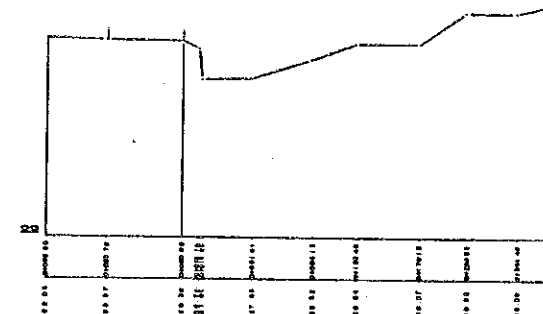
SECTION 8-69
39+206.715



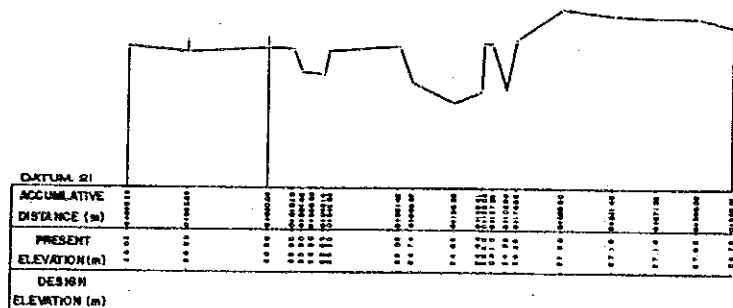
SECTION 8-68
39+673.131



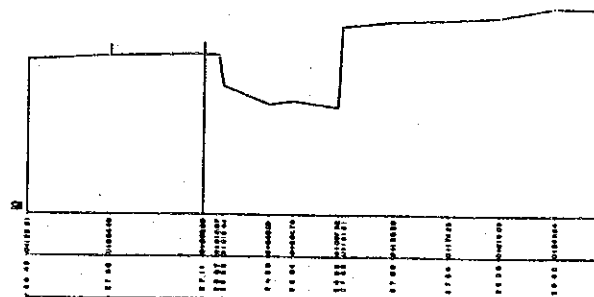
SECTION 8-67
40+175.798



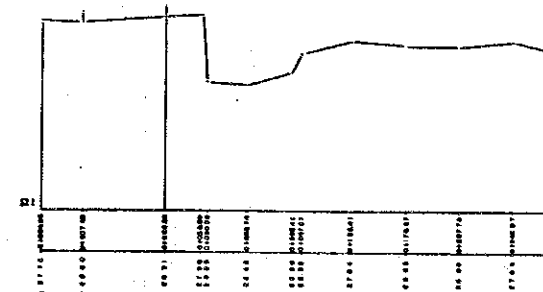
SECTION 8-73
37+177.071



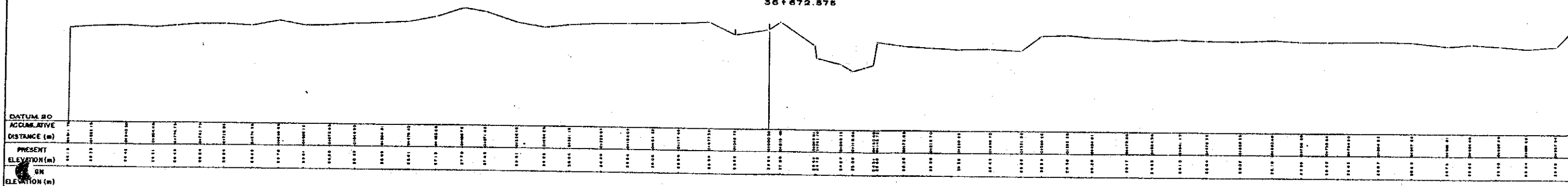
SECTION 8-72
37+691.858



SECTION 8-71
38+206.349

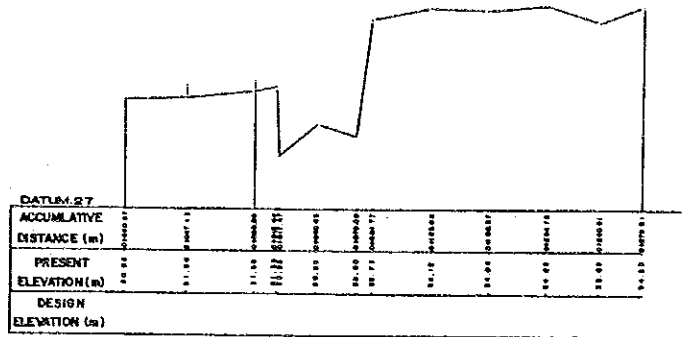


SECTION 8-74
36+672.876

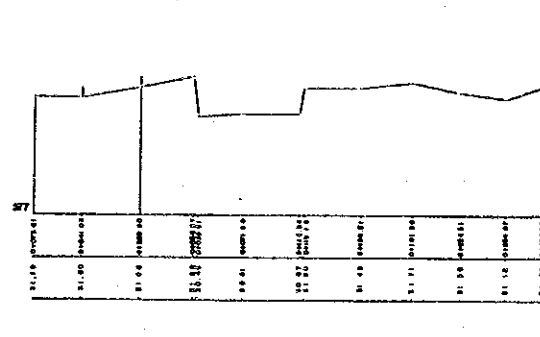


THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
CHAMA RIVER			
CROSS SECTIONS (10/25)			
8-67 8-68 8-69 8-70 8-71			
8-72 8-73 8-74			
DATE: 1964	DRAWN BY: A. GARCIA	SCALE: 1:1000	DATE: MARCH 1964
JAPAN INTERNATIONAL COOPERATION AGENCY			

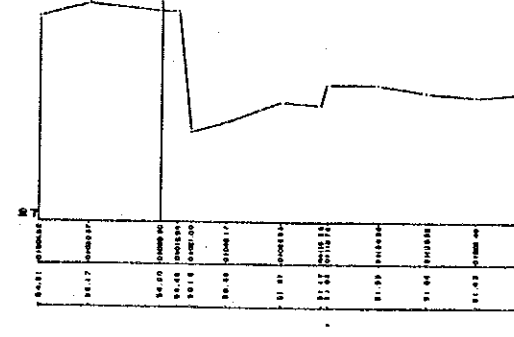
SECTION 8-62
42+751.115



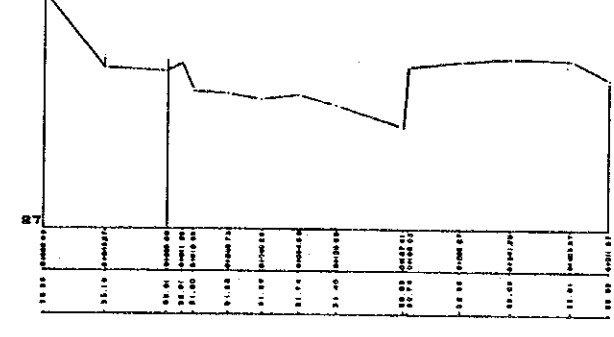
SECTION 8-61
43+240.465



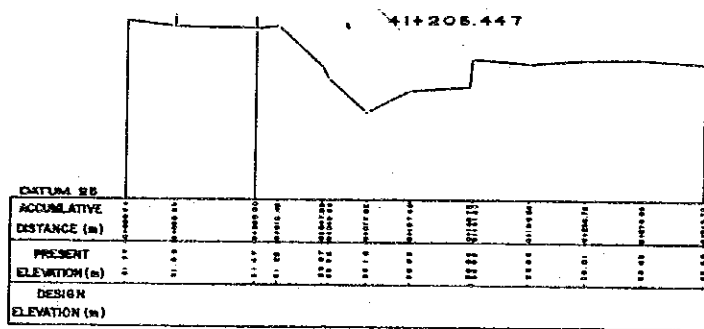
SECTION 8-60
43+742.126



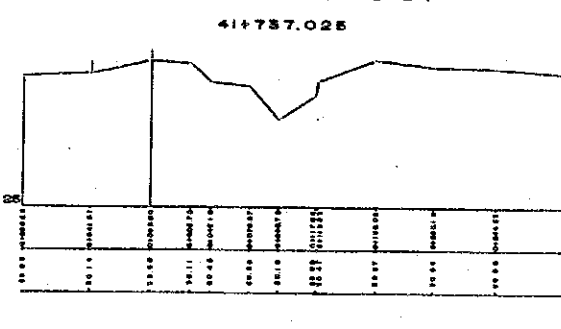
SECTION 8-59
44+254.346



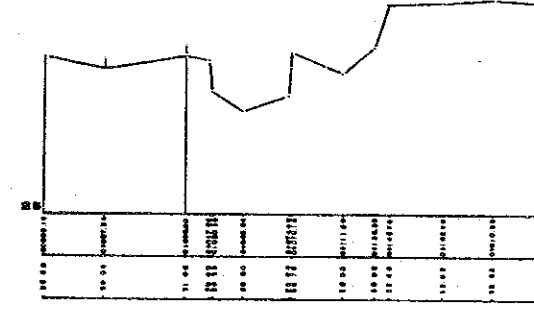
SECTION 8-65
41+205.447



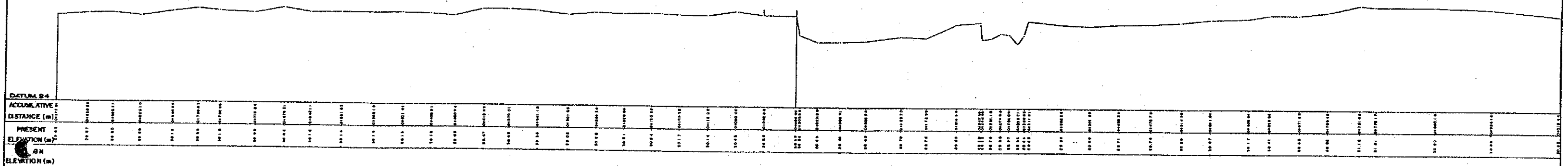
SECTION 8-64
41+737.025



SECTION 8-63
42+257.777



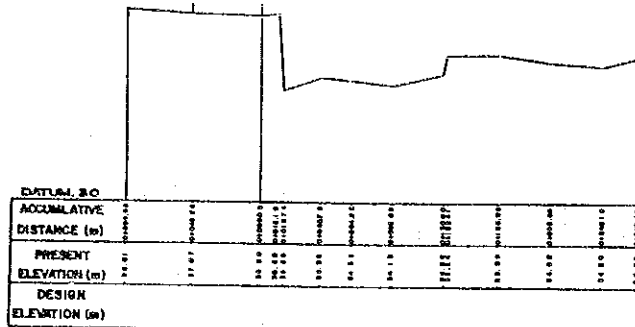
SECTION 8-66
40+725.671



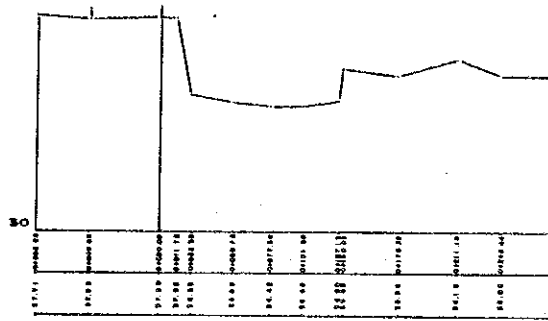
THE REPUBLIC OF VENEZUELA
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT

PROJECT	CHAMA RIVER
CROSS SECTIONS (1/1/88)	8-60 8-61 8-62 8-63 8-64 8-65 8-66
DATE	MARCH 1988
JAPAN INTERNATIONAL COOPERATION AGENCY	

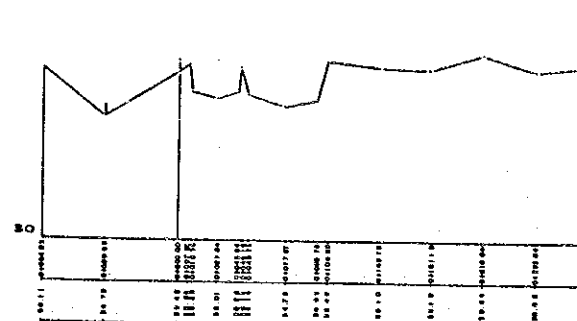
SECTION 8-54
46+750.786



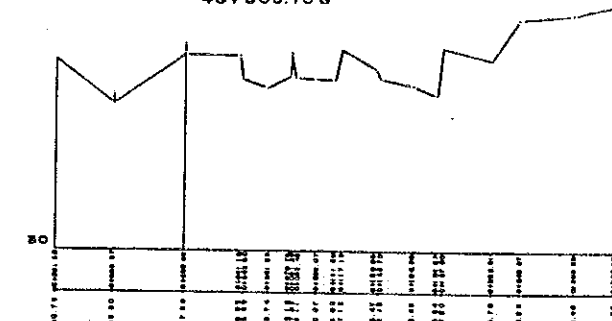
SECTION 8-53
47+232.051



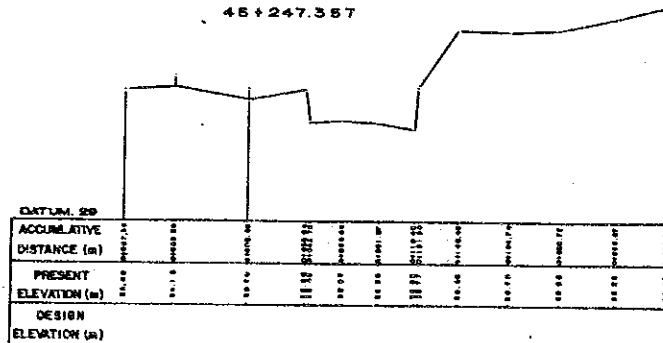
SECTION 8-52
47+754.158



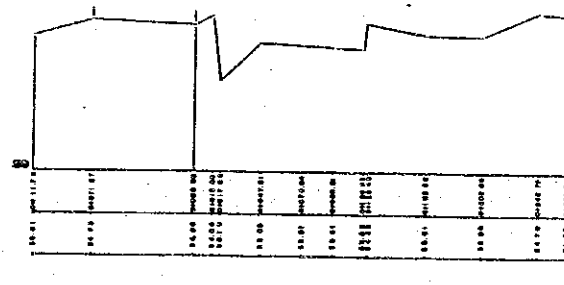
SECTION 8-51
48+305.108



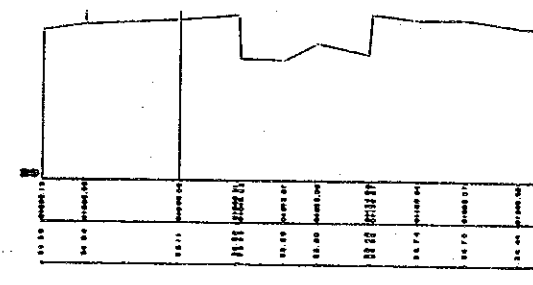
SECTION 8-57
45+247.357



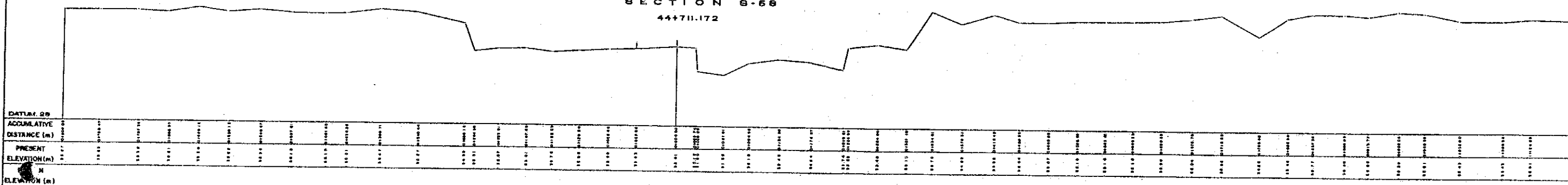
SECTION 8-56
45+748.050



SECTION 8-55
45+209.117



SECTION 8-58
44+711.172



THE REPUBLIC OF VENEZUELA
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT

CHAMA RIVER
CROSS SECTIONS (12/25)
S-51 S-52 S-53 S-54 S-55
S-56 S-57 S-58

DATE: 1969
DRAWN BY: [Name]
CHECKED BY: [Name]
DATE: MARCH 1969

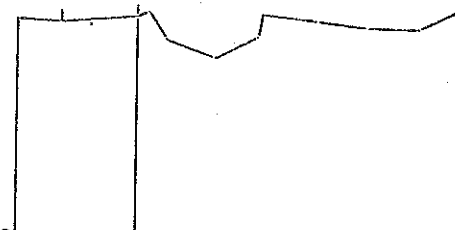
JAPAN INTERNATIONAL COOPERATION AGENCY

SECTION B-46
50+812.864



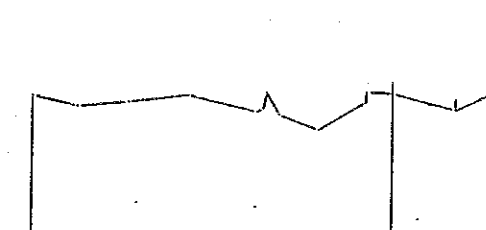
DATUM 82	
ACCUMULATIVE DISTANCE (m)	50+812.864
PRESENT ELEVATION (m)	100.00
DESIGN ELEVATION (m)	100.00

SECTION B-45
51+811.999



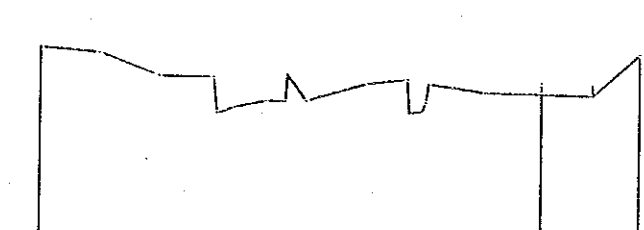
DATUM 82	
ACCUMULATIVE DISTANCE (m)	51+811.999
PRESENT ELEVATION (m)	100.00
DESIGN ELEVATION (m)	100.00

SECTION B-44
51+813.999



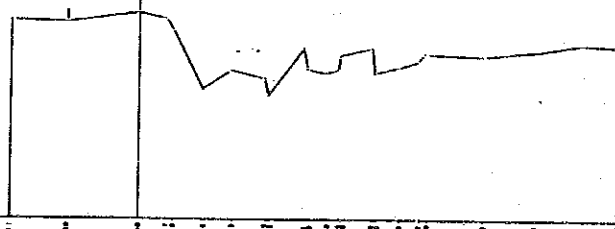
DATUM 82	
ACCUMULATIVE DISTANCE (m)	51+813.999
PRESENT ELEVATION (m)	100.00
DESIGN ELEVATION (m)	100.00

SECTION B-43
52+815.447



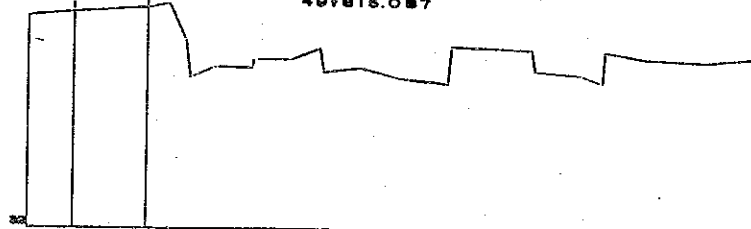
DATUM 82	
ACCUMULATIVE DISTANCE (m)	52+815.447
PRESENT ELEVATION (m)	100.00
DESIGN ELEVATION (m)	100.00

SECTION B-49
49+819.259



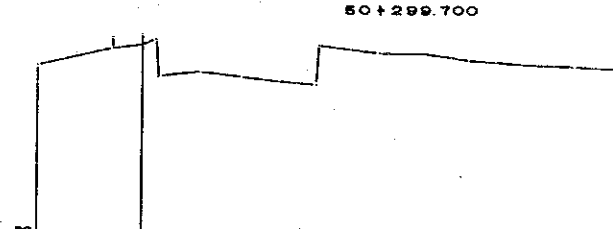
DATUM 82	
ACCUMULATIVE DISTANCE (m)	49+819.259
PRESENT ELEVATION (m)	100.00
DESIGN ELEVATION (m)	100.00

SECTION B-48
49+815.087



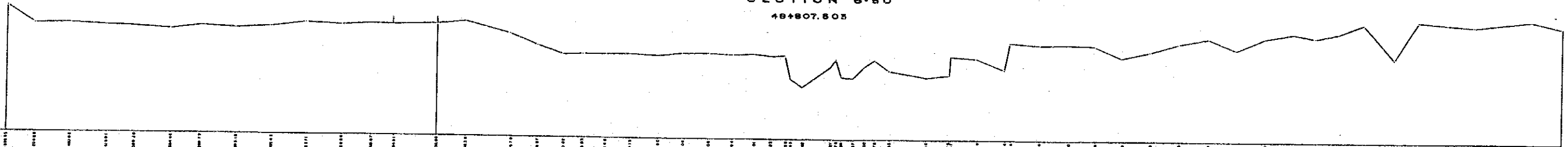
DATUM 82	
ACCUMULATIVE DISTANCE (m)	49+815.087
PRESENT ELEVATION (m)	100.00
DESIGN ELEVATION (m)	100.00

SECTION B-47
50+829.700



DATUM 82	
ACCUMULATIVE DISTANCE (m)	50+829.700
PRESENT ELEVATION (m)	100.00
DESIGN ELEVATION (m)	100.00

SECTION B-50
48+807.505



DATUM 82	
ACCUMULATIVE DISTANCE (m)	48+807.505
PRESENT ELEVATION (m)	100.00
DESIGN ELEVATION (m)	100.00

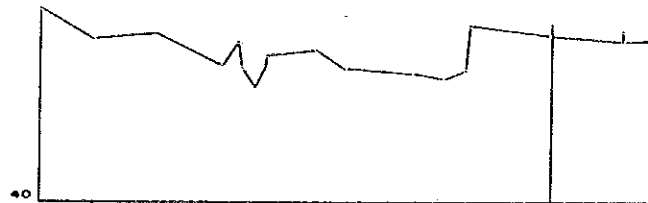
THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
SCALE	1:1000	CHAMA RIVER	
DATE	MARCH 1969	CROSS SECTIONS (13/25)	
PROJECT	CHAMA RIVER	B-43 B-44 B-45 B-46 B-47	
DESIGNER	...	B-48 B-49 B-50	
APPROVED BY	...	DATE	
JAPAN INTERNATIONAL COOPERATION AGENCY		MARCH 1969	

SECTION 8-38
54+847.058



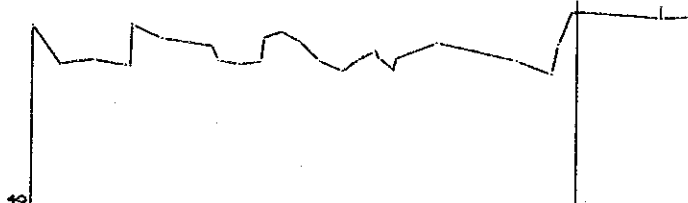
DATUM 40	
ACCUMULATIVE DISTANCE (m)	0.00
PRESENT ELEVATION (m)	40.00
DESIGN ELEVATION (m)	40.00

SECTION 8-37
55+269.747



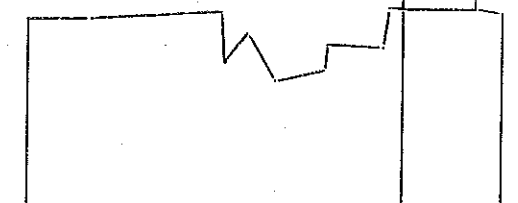
ACCUMULATIVE DISTANCE (m)	0.00
PRESENT ELEVATION (m)	40.00
DESIGN ELEVATION (m)	40.00

SECTION 8-36
55+884.837



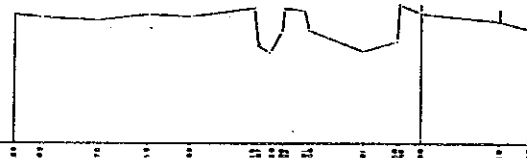
ACCUMULATIVE DISTANCE (m)	0.00
PRESENT ELEVATION (m)	40.00
DESIGN ELEVATION (m)	40.00

SECTION 8-35
56+858.210



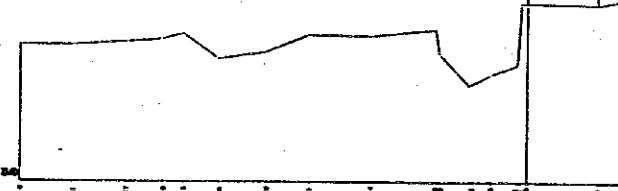
ACCUMULATIVE DISTANCE (m)	0.00
PRESENT ELEVATION (m)	40.00
DESIGN ELEVATION (m)	40.00

SECTION 8-41
53+277.024



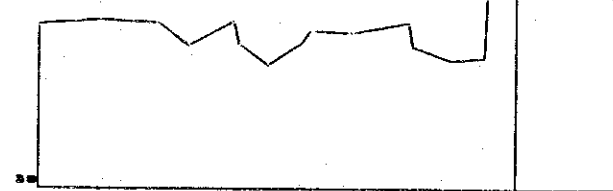
DATUM 38	
ACCUMULATIVE DISTANCE (m)	0.00
PRESENT ELEVATION (m)	38.00
DESIGN ELEVATION (m)	38.00

SECTION 8-40
53+811.336



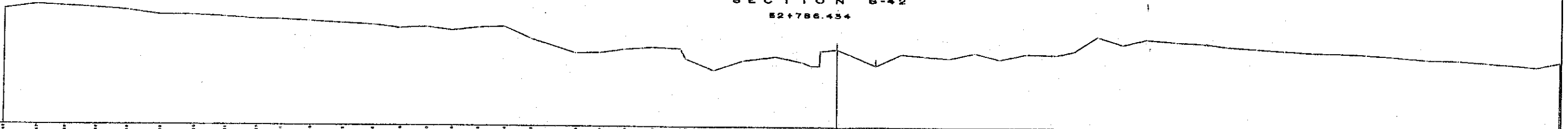
ACCUMULATIVE DISTANCE (m)	0.00
PRESENT ELEVATION (m)	38.00
DESIGN ELEVATION (m)	38.00

SECTION 8-39
54+286.590



ACCUMULATIVE DISTANCE (m)	0.00
PRESENT ELEVATION (m)	38.00
DESIGN ELEVATION (m)	38.00

SECTION 8-42
52+786.454



DATUM 37	
ACCUMULATIVE DISTANCE (m)	0.00
PRESENT ELEVATION (m)	37.00
DESIGN ELEVATION (m)	37.00

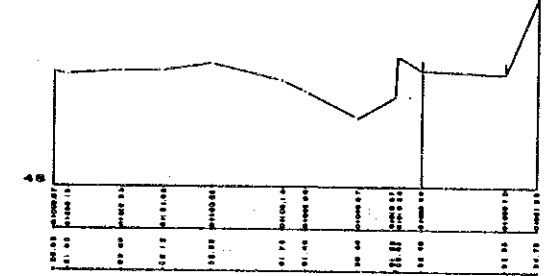
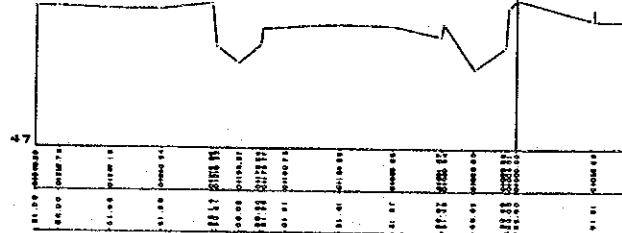
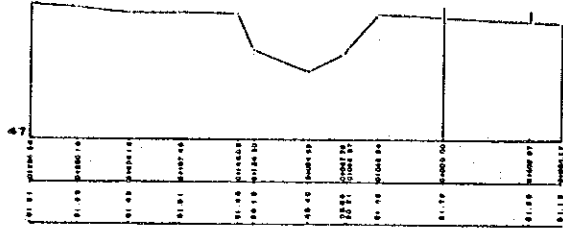
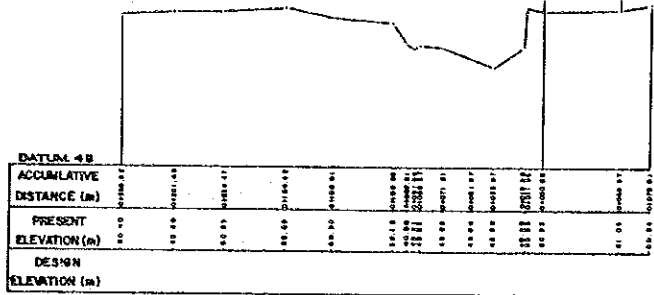
THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
NO. 1000	CHAMA RIVER	CROSS SECTIONS (14/25)	
DATE: 1980	PROJECT: CHAMA RIVER	SECTION 8-35 TO 8-42	
SCALE: 1:1000	DESIGNER: JICA	DATE: MARCH 1980	
JAPAN INTERNATIONAL COOPERATION AGENCY			

SECTION 8-30
58+860.882

SECTION 8-29
59+412.071

SECTION 8-28
59+912.359

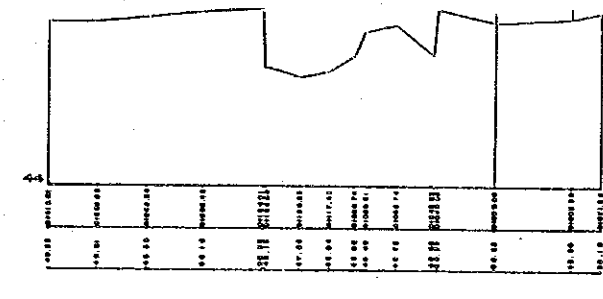
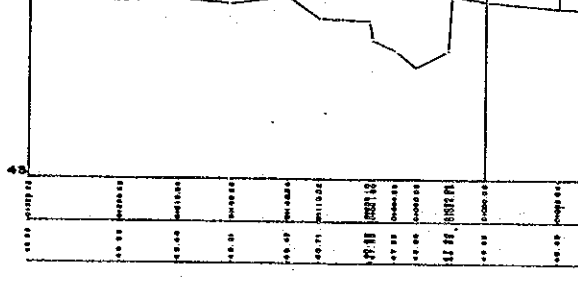
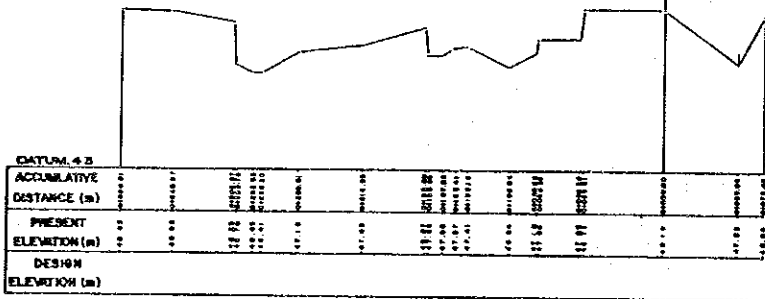
SECTION 8-27
60+426.588



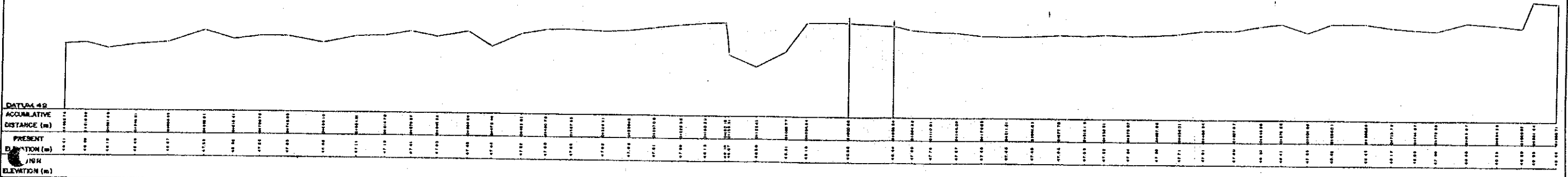
SECTION 8-33
57+358.800

SECTION 8-32
57+872.715

SECTION 8-31
58+360.527



SECTION 8-34
56+873.455

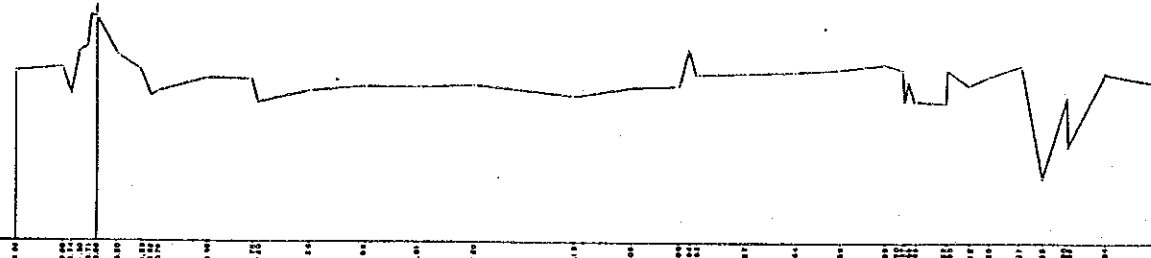


THE REPUBLIC OF VENEZUELA

STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT

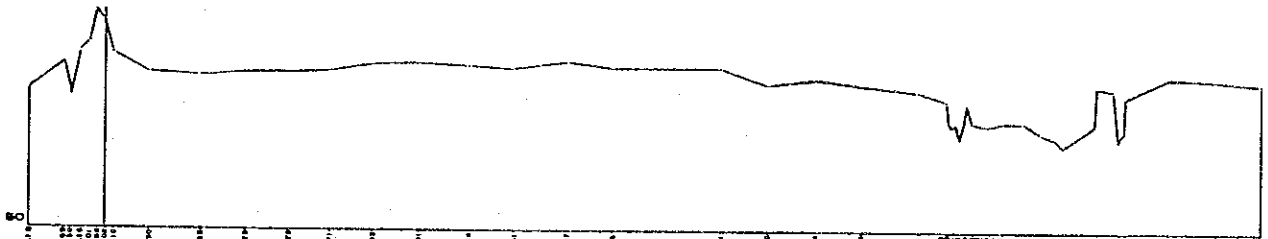
CHAMA RIVER	
CROSS SECTIONS (18/28)	
8-27 8-28 8-29 8-30 8-31	
8-32 8-33 8-34	
DRAWN BY	DATE
PHOTOGRAPHED BY	MARCH 1968
JAPAN INTERNATIONAL COOPERATION AGENCY	

SECTION 8-24
61+011.345



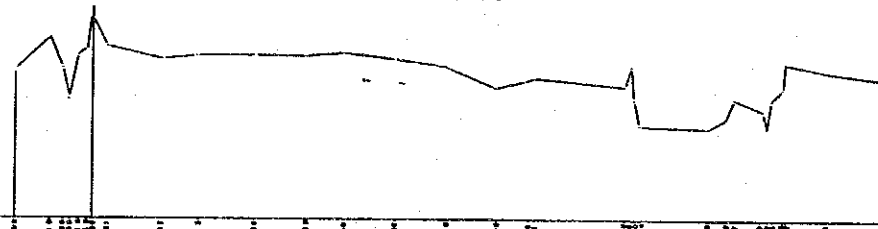
DATUM: 49	
ACCUMULATIVE DISTANCE (m)	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00 160.00 170.00 180.00 190.00 200.00 210.00 220.00 230.00 240.00 250.00 260.00 270.00 280.00 290.00 300.00 310.00 320.00 330.00 340.00 350.00 360.00 370.00 380.00 390.00 400.00 410.00 420.00 430.00 440.00 450.00 460.00 470.00 480.00 490.00 500.00
PRESENT ELEVATION (m)	85.00 85.50 86.00 86.50 87.00 87.50 88.00 88.50 89.00 89.50 90.00 90.50 91.00 91.50 92.00 92.50 93.00 93.50 94.00 94.50 95.00 95.50 96.00 96.50 97.00 97.50 98.00 98.50 99.00 99.50 100.00 100.50 101.00 101.50 102.00 102.50 103.00 103.50 104.00 104.50 105.00 105.50 106.00 106.50 107.00 107.50 108.00 108.50 109.00 109.50 110.00
DESIGN ELEVATION (m)	85.00 85.50 86.00 86.50 87.00 87.50 88.00 88.50 89.00 89.50 90.00 90.50 91.00 91.50 92.00 92.50 93.00 93.50 94.00 94.50 95.00 95.50 96.00 96.50 97.00 97.50 98.00 98.50 99.00 99.50 100.00 100.50 101.00 101.50 102.00 102.50 103.00 103.50 104.00 104.50 105.00 105.50 106.00 106.50 107.00 107.50 108.00 108.50 109.00 109.50 110.00

SECTION 8-25
62+412.160



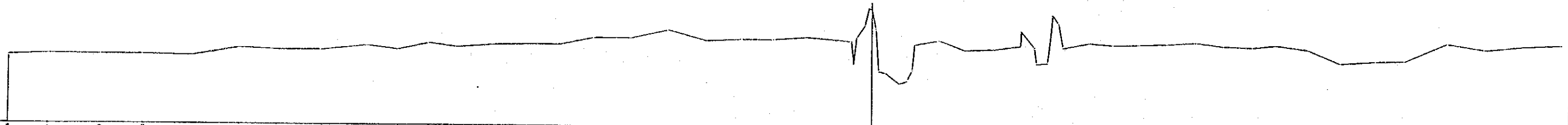
ACCUMULATIVE DISTANCE (m)	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00 160.00 170.00 180.00 190.00 200.00 210.00 220.00 230.00 240.00 250.00 260.00 270.00 280.00 290.00 300.00 310.00 320.00 330.00 340.00 350.00 360.00 370.00 380.00 390.00 400.00 410.00 420.00 430.00 440.00 450.00 460.00 470.00 480.00 490.00 500.00
PRESENT ELEVATION (m)	85.00 85.50 86.00 86.50 87.00 87.50 88.00 88.50 89.00 89.50 90.00 90.50 91.00 91.50 92.00 92.50 93.00 93.50 94.00 94.50 95.00 95.50 96.00 96.50 97.00 97.50 98.00 98.50 99.00 99.50 100.00 100.50 101.00 101.50 102.00 102.50 103.00 103.50 104.00 104.50 105.00 105.50 106.00 106.50 107.00 107.50 108.00 108.50 109.00 109.50 110.00
DESIGN ELEVATION (m)	85.00 85.50 86.00 86.50 87.00 87.50 88.00 88.50 89.00 89.50 90.00 90.50 91.00 91.50 92.00 92.50 93.00 93.50 94.00 94.50 95.00 95.50 96.00 96.50 97.00 97.50 98.00 98.50 99.00 99.50 100.00 100.50 101.00 101.50 102.00 102.50 103.00 103.50 104.00 104.50 105.00 105.50 106.00 106.50 107.00 107.50 108.00 108.50 109.00 109.50 110.00

SECTION 8-25
61+411.470



DATUM: 49	
ACCUMULATIVE DISTANCE (m)	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00 160.00 170.00 180.00 190.00 200.00 210.00 220.00 230.00 240.00 250.00 260.00 270.00 280.00 290.00 300.00 310.00 320.00 330.00 340.00 350.00 360.00 370.00 380.00 390.00 400.00 410.00 420.00 430.00 440.00 450.00 460.00 470.00 480.00 490.00 500.00
PRESENT ELEVATION (m)	85.00 85.50 86.00 86.50 87.00 87.50 88.00 88.50 89.00 89.50 90.00 90.50 91.00 91.50 92.00 92.50 93.00 93.50 94.00 94.50 95.00 95.50 96.00 96.50 97.00 97.50 98.00 98.50 99.00 99.50 100.00 100.50 101.00 101.50 102.00 102.50 103.00 103.50 104.00 104.50 105.00 105.50 106.00 106.50 107.00 107.50 108.00 108.50 109.00 109.50 110.00
DESIGN ELEVATION (m)	85.00 85.50 86.00 86.50 87.00 87.50 88.00 88.50 89.00 89.50 90.00 90.50 91.00 91.50 92.00 92.50 93.00 93.50 94.00 94.50 95.00 95.50 96.00 96.50 97.00 97.50 98.00 98.50 99.00 99.50 100.00 100.50 101.00 101.50 102.00 102.50 103.00 103.50 104.00 104.50 105.00 105.50 106.00 106.50 107.00 107.50 108.00 108.50 109.00 109.50 110.00

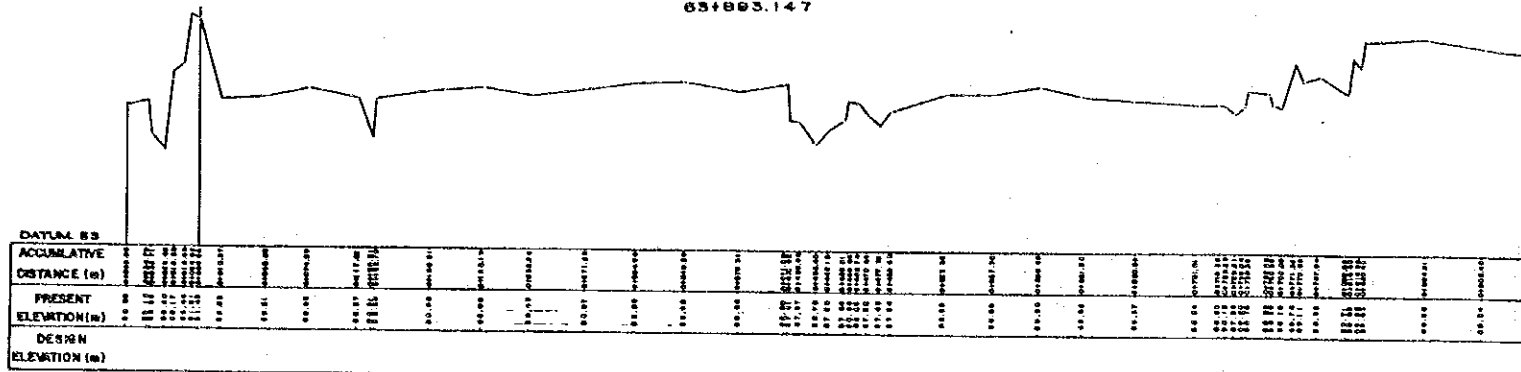
SECTION 8-26
60+012.291



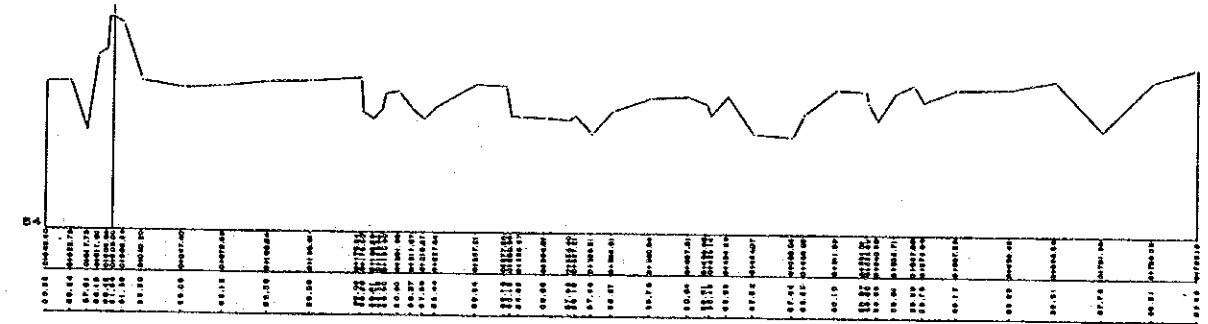
DATUM: 49	
ACCUMULATIVE DISTANCE (m)	0.00 10.00 20.00 30.00 40.00 50.00 60.00 70.00 80.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00 160.00 170.00 180.00 190.00 200.00 210.00 220.00 230.00 240.00 250.00 260.00 270.00 280.00 290.00 300.00 310.00 320.00 330.00 340.00 350.00 360.00 370.00 380.00 390.00 400.00 410.00 420.00 430.00 440.00 450.00 460.00 470.00 480.00 490.00 500.00
PRESENT ELEVATION (m)	85.00 85.50 86.00 86.50 87.00 87.50 88.00 88.50 89.00 89.50 90.00 90.50 91.00 91.50 92.00 92.50 93.00 93.50 94.00 94.50 95.00 95.50 96.00 96.50 97.00 97.50 98.00 98.50 99.00 99.50 100.00 100.50 101.00 101.50 102.00 102.50 103.00 103.50 104.00 104.50 105.00 105.50 106.00 106.50 107.00 107.50 108.00 108.50 109.00 109.50 110.00
DESIGN ELEVATION (m)	85.00 85.50 86.00 86.50 87.00 87.50 88.00 88.50 89.00 89.50 90.00 90.50 91.00 91.50 92.00 92.50 93.00 93.50 94.00 94.50 95.00 95.50 96.00 96.50 97.00 97.50 98.00 98.50 99.00 99.50 100.00 100.50 101.00 101.50 102.00 102.50 103.00 103.50 104.00 104.50 105.00 105.50 106.00 106.50 107.00 107.50 108.00 108.50 109.00 109.50 110.00

THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
SCALE	1:100		
DRAWN BY	PROYECTAL S.A.	CHAMA RIVER	
CHECKED BY	PROYECTAL S.A.	CROSS SECTIONS (116/23)	
DATE	8/20/80	8-23 8-24 8-25 8-26	
DRAWN BY		DATE	MARCH 1980
JAPAN INTERNATIONAL COOPERATION AGENCY			

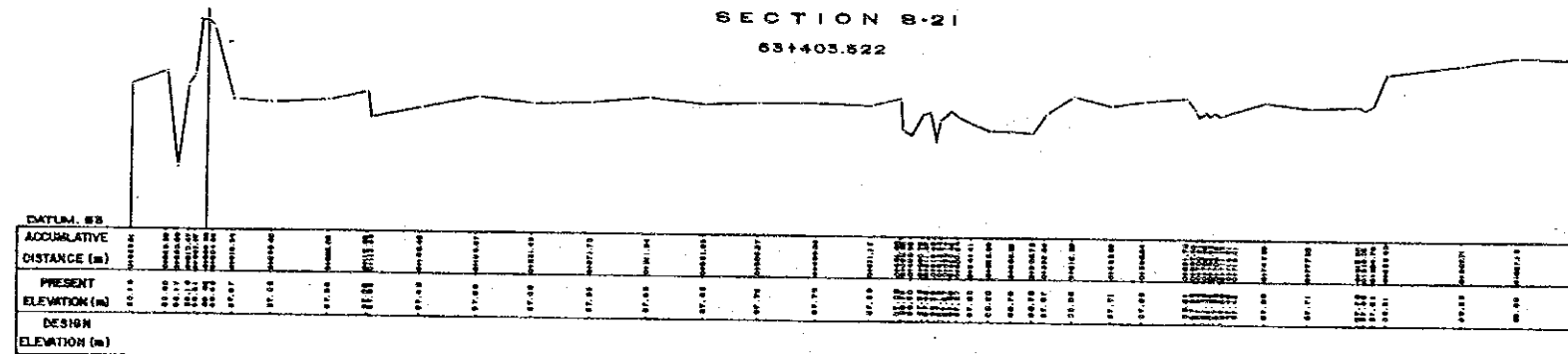
SECTION 8-20
63+893.147



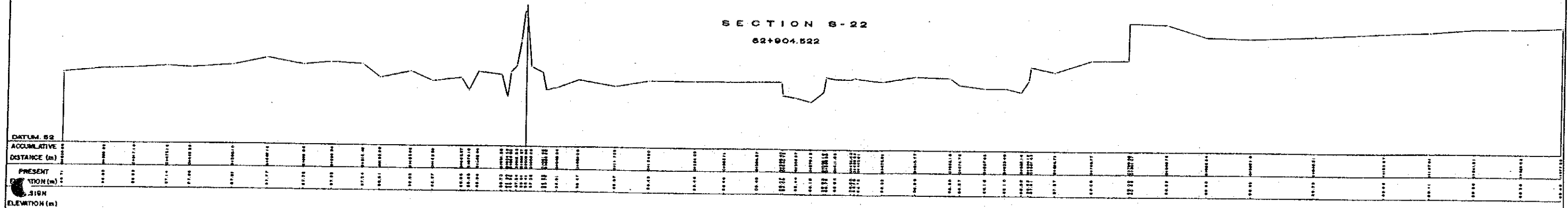
SECTION 8-19
64+403.358



SECTION 8-21
63+403.522

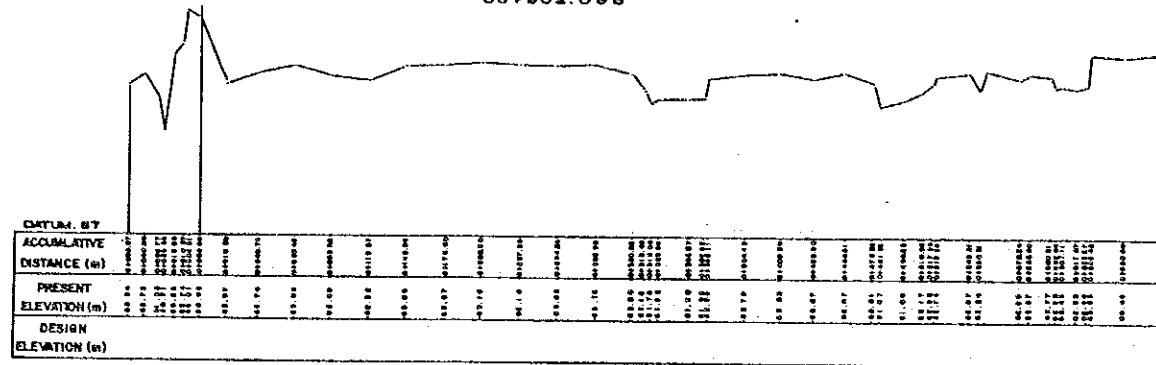


SECTION 8-22
62+804.522

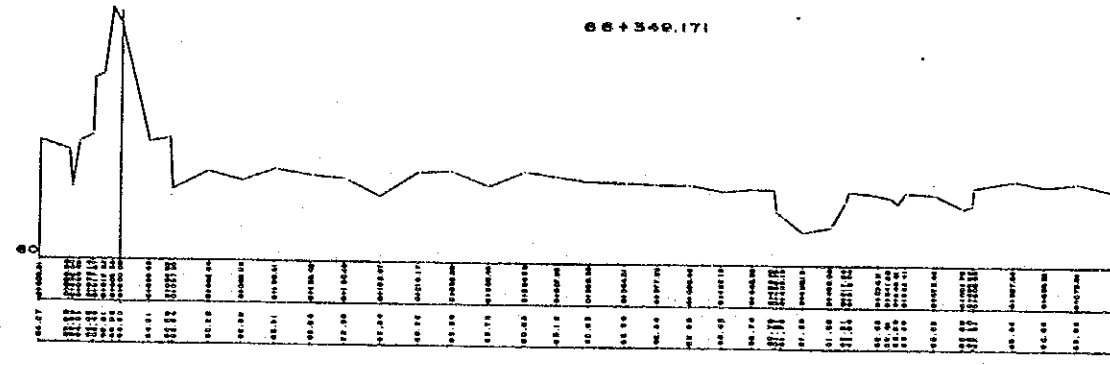


THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
SCALE	1:1,000	CHAMA RIVER	
DATE	11/70	CROSS SECTIONS (17/28)	
PROJECT	CHAMA RIVER	6-19 8-20 8-21 8-22	
CLIENT	JAPAN INTERNATIONAL COOPERATION AGENCY	DESIGNED BY	CHECKED BY
		DATE	DATE
		MARCH 1981	
JAPAN INTERNATIONAL COOPERATION AGENCY			

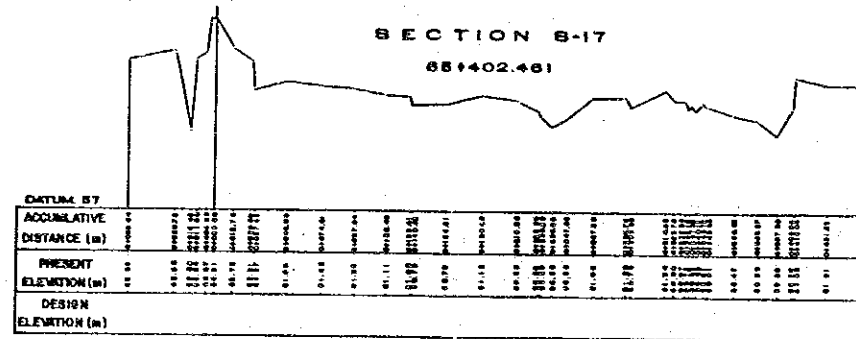
SECTION 8-16
65+902.098



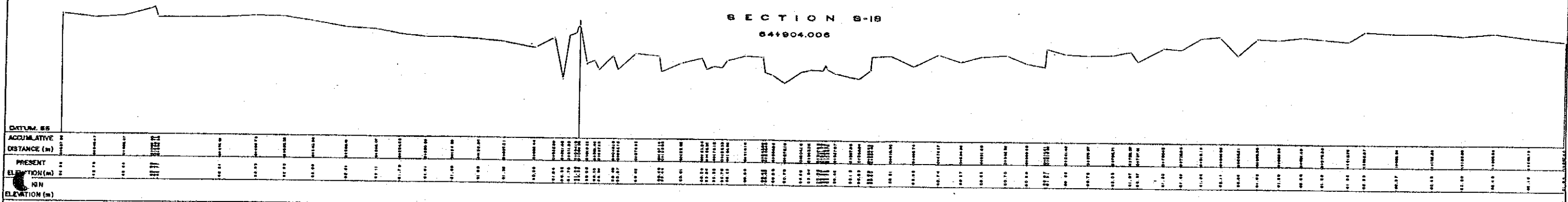
SECTION 8-15
66+349.171



SECTION 8-17
68+402.461

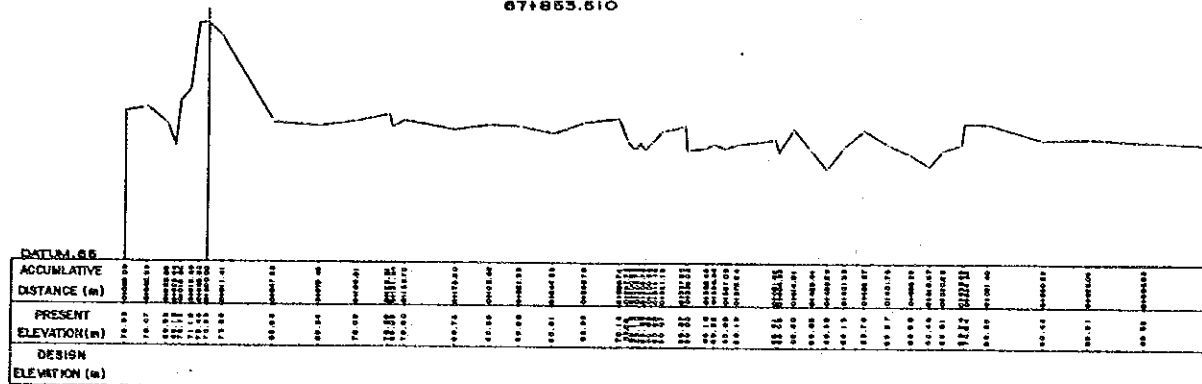


SECTION 8-18
64+904.006

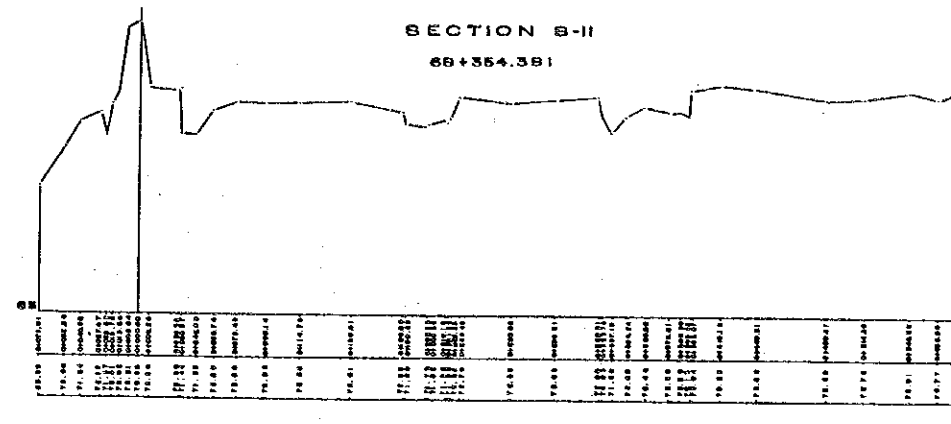


THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
NO. 1	NO. 2	NO. 3	NO. 4
DATE	DATE	DATE	DATE
NO. 1	NO. 2	NO. 3	NO. 4
DATE	DATE	DATE	DATE
NO. 1	NO. 2	NO. 3	NO. 4
DATE	DATE	DATE	DATE
CHAMA RIVER			
CROSS SECTIONS (16/25)			
8-15 8-16 8-17 8-18			
NO. 1	NO. 2	NO. 3	NO. 4
DATE	DATE	DATE	DATE
MARCH 1959			
JAPAN INTERNATIONAL COOPERATION AGENCY			

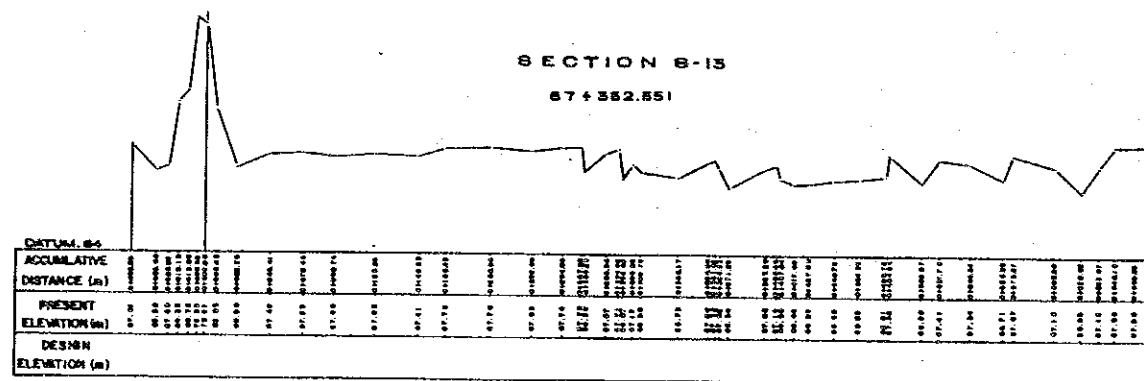
SECTION 8-12
67+853.510



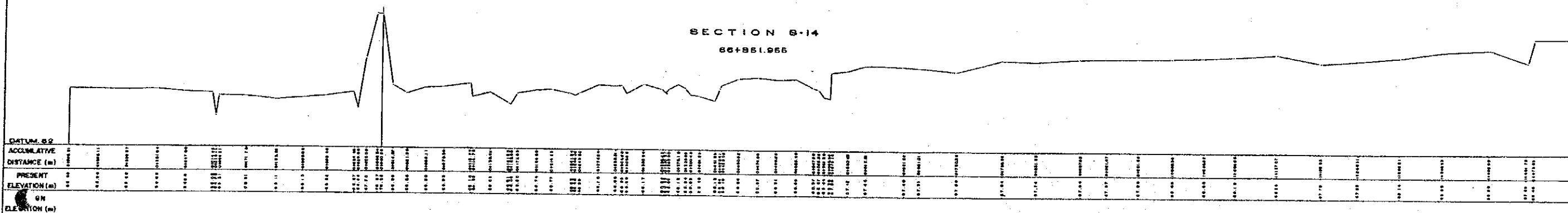
SECTION 8-11
68+354.381



SECTION 8-13
67+352.551



SECTION 8-14
66+851.955

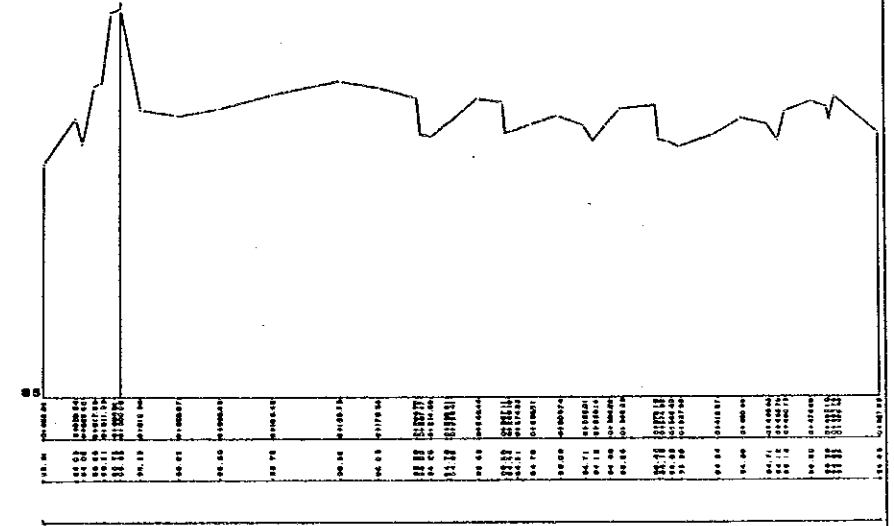
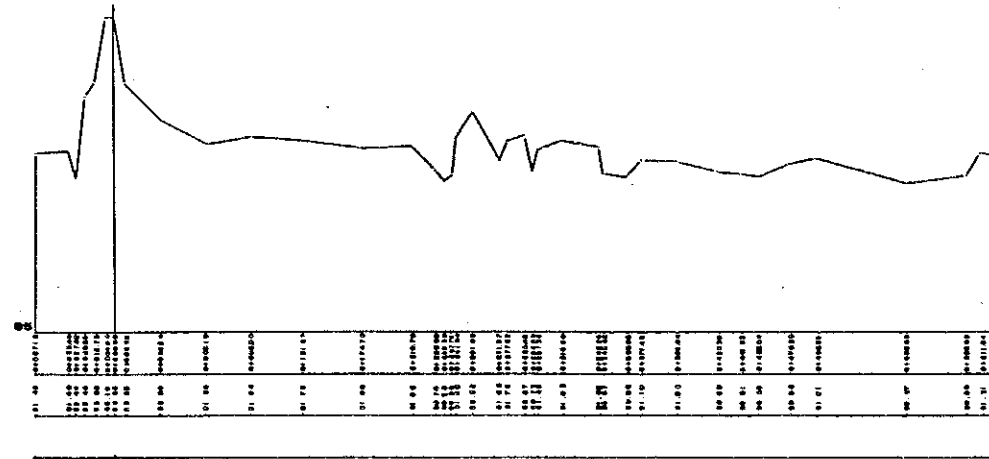
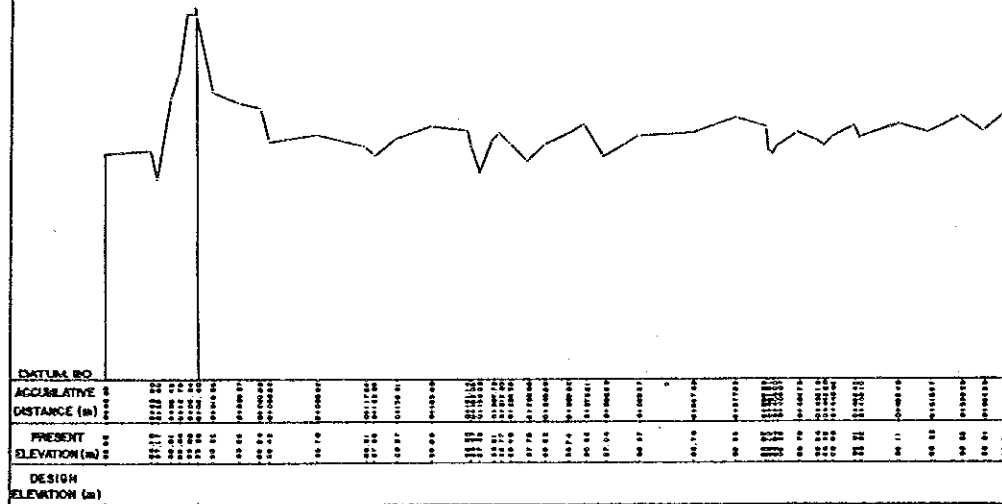


THE REPUBLIC OF VENEZUELA	
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT	
DATE: 01/2000	CHAMA RIVER
SCALE: 1:1000	
DESIGNED BY: INSTITUTO V.C.S.	CROSS SECTIONS (19/200)
CALCULATED BY: INSTITUTO V.C.S.	
DRAWN BY: INSTITUTO V.C.S.	8-11 8-12 8-13 8-14
CHECKED BY: INSTITUTO V.C.S.	FORMED BY: _____
DATE: _____	DATE: MARCH 1999
JAPAN INTERNATIONAL COOPERATION AGENCY	

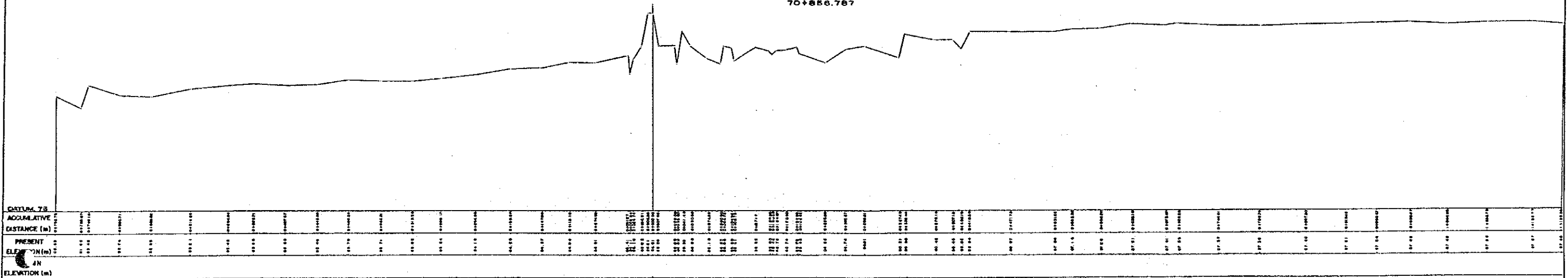
SECTION 8-5
71+557.255

SECTION 8-4
71+856.052

SECTION 8-3
72+558.392

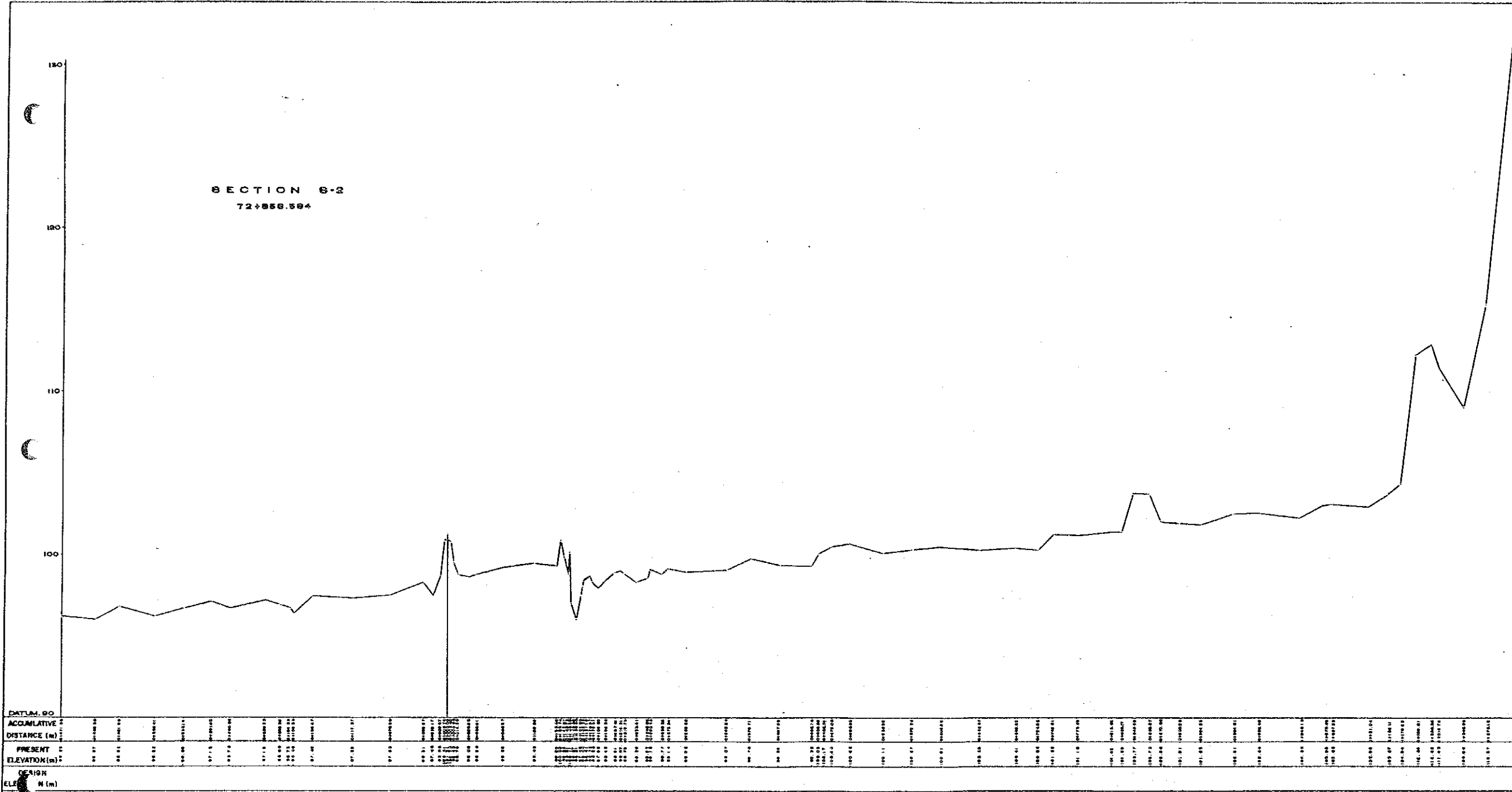


SECTION 8-6
70+856.787

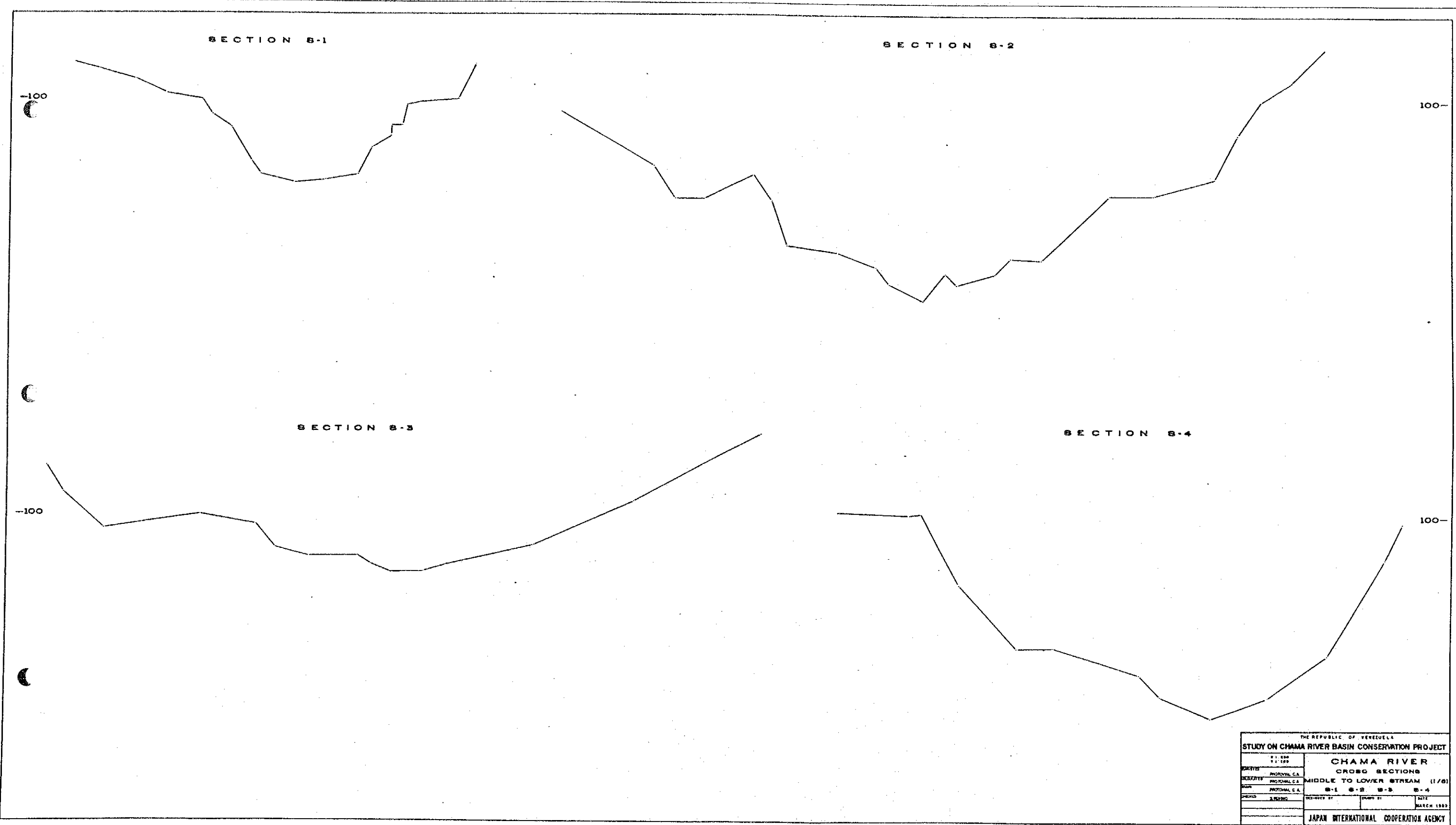


THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
PROJECTED BY	PROF. C.A. RIVERA	DATE	MARCH 1969
CALCULATED BY	PROF. C.A. RIVERA	DATE	MARCH 1969
DRAWN BY	PROF. C.A. RIVERA	DATE	MARCH 1969
JAPAN INTERNATIONAL COOPERATION AGENCY			

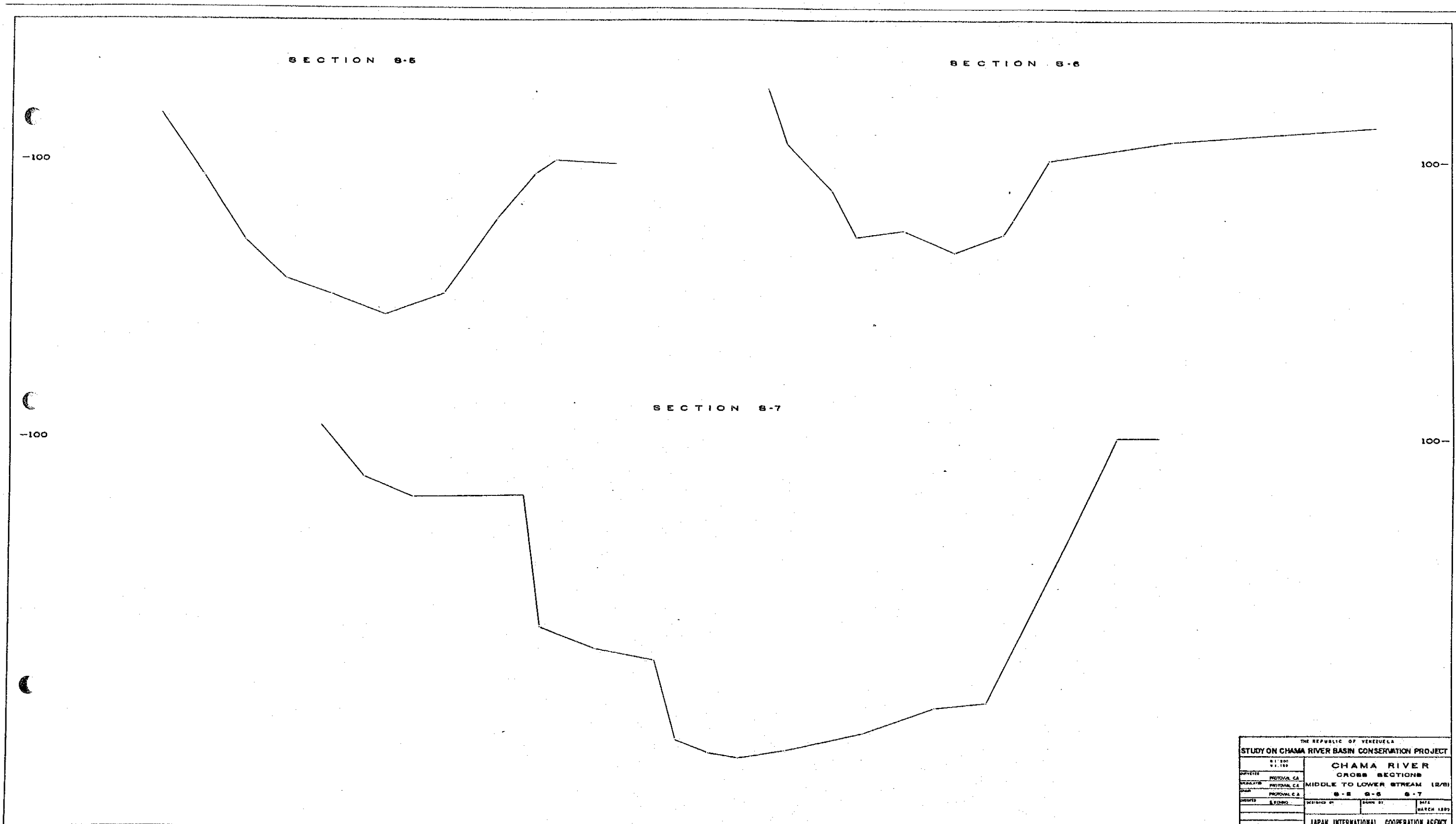
SECTION 8-2
72+858.594



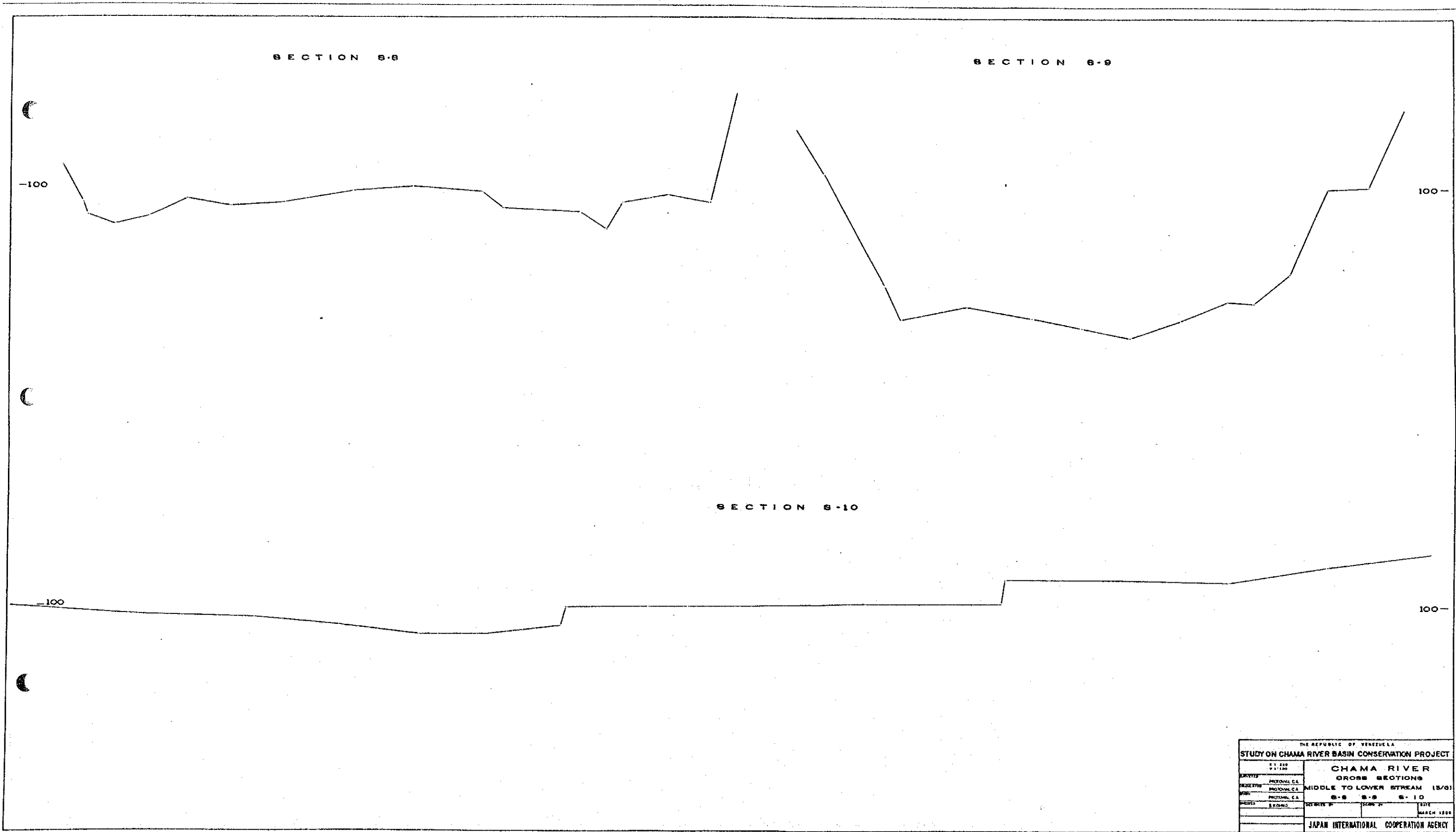
THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
SCALE	1:500	CHAMA RIVER	
DESIGNED BY	PROF. J. G. A.	CROSS SECTIONS	
CHECKED BY	PROF. J. G. A.	8-2 (22/53)	
DRAWN BY	PROF. J. G. A.	DESIGNED AT	DATE
IN CHARGE	J. G. A.	MADE AT	MARCH 1958
JAPAN INTERNATIONAL COOPERATION AGENCY			



THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
SCALE	1:1,000	CHAMA RIVER	
DATE	1/1/68	CROSS SECTIONS	
PROJECT	PROYECTO C.A.	MIDDLE TO LOWER STREAM (1/6)	
SECTION	PROYECTO C.A.	8-1	8-2
SECTION	PROYECTO C.A.	8-3	8-4
PROJECT	PROYECTO C.A.	PROJECT BY	DATE
			MARCH 1968
JAPAN INTERNATIONAL COOPERATION AGENCY			



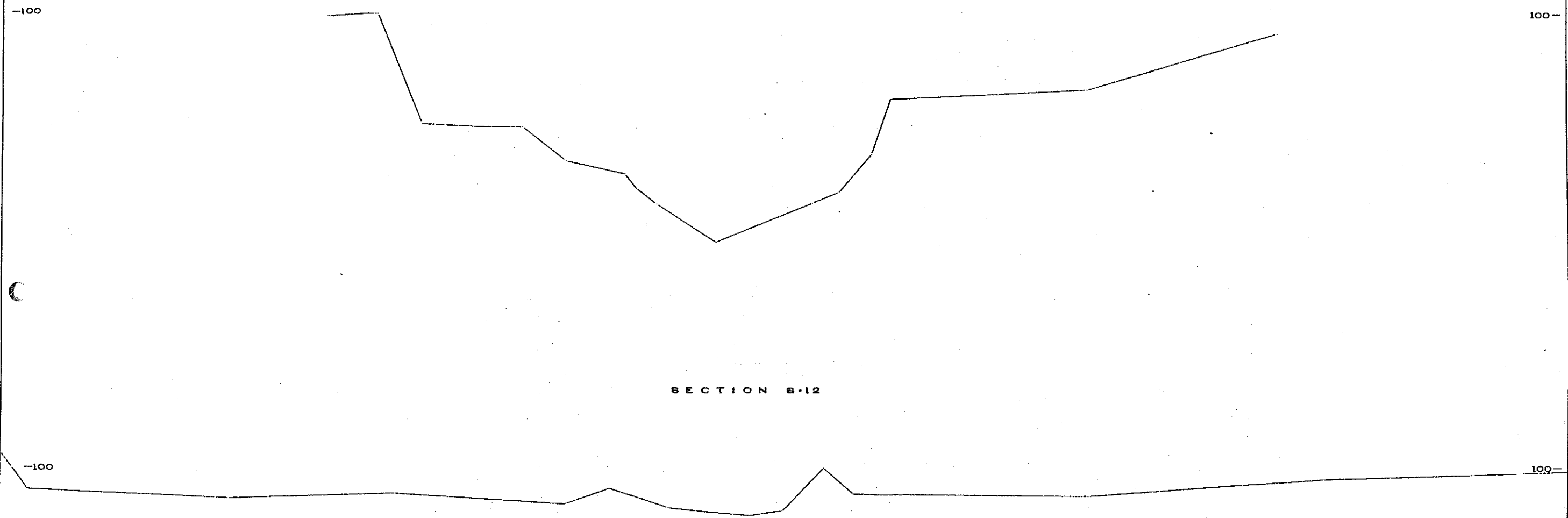
THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
SHEET NO. 100		CHAMA RIVER	
SHEET NO. 100		CROSS SECTIONS	
MIDDLE TO LOWER STREAM (12/8)			
DESIGNED BY		DRAWN BY	
SECTION 8-5		SECTION 8-6	
SECTION 8-7		DATE	
MARCH 1989		JAPAN INTERNATIONAL COOPERATION AGENCY	



THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
NO. 138	CHAMA RIVER		
DATE	CROSS SECTIONS		
ENGINEER	PROF. DR. C. A.	MIDDLE TO LOWER STREAM (18/61)	
NO.	PROF. DR. C. A.	8-8	8-9
NO.	PROF. DR. C. A.	8-8	8-10
NO.	PROF. DR. C. A.	DATE	DATE
NO.	PROF. DR. C. A.	DATE	DATE
JAPAN INTERNATIONAL COOPERATION AGENCY			

SECTION 8-11

SECTION 8-12



THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
DATE	01.000	CHAMA RIVER	
PROJECT	01.100	CROSS SECTIONS	
CLIENT	PROYAL C.A.	MIDDLE TO LOWER STREAM (4/6)	
PLAN	PROYAL C.A.	8-11	8-12
SCALE	1:5000	DATE	MARCH 1989
JAPAN INTERNATIONAL COOPERATION AGENCY			

SECTION 8-13
(VIA A TOVAR)

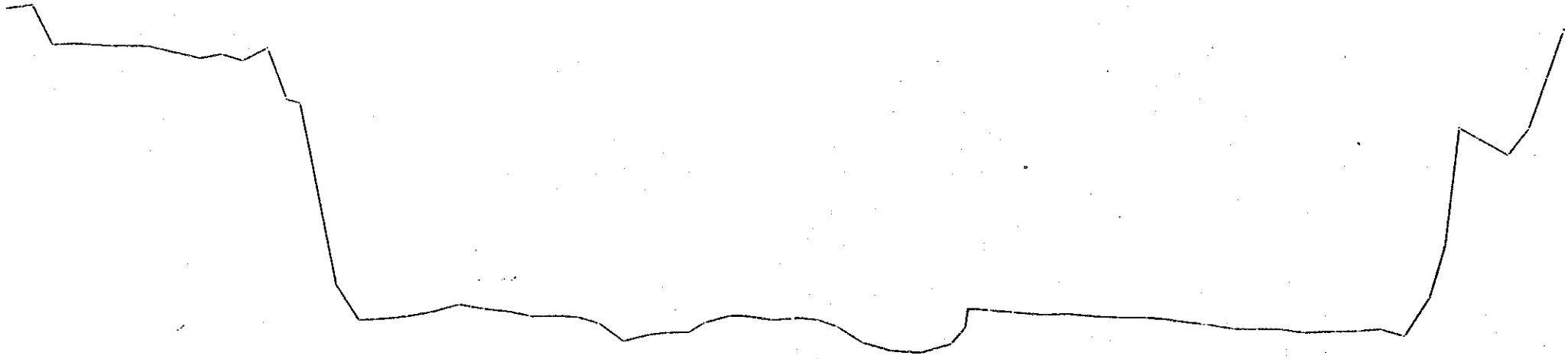
SECTION 8-13
(VIA A MERIDA)

THE REPUBLIC OF VENEZUELA			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
DATE	01.80	CHAMA RIVER	
PROJECT	PROYECTO	CROSS SECTIONS	
LOCATION	PROYECTO	MIDDLE TO LOWER STREAM (S/S)	
SECTION	PROYECTO	8-13 (VIA A TOVAR)	8-13 (VIA A MERIDA)
SCALE	1:5000	DATE	MARCH 1988
JAPAN INTERNATIONAL COOPERATION AGENCY			

SECTION 9-15

-100

100-



THE REPUBLIC OF YEMEN			
STUDY ON CHAMA RIVER BASIN CONSERVATION PROJECT			
NO.	01100	CHAMA RIVER	
DATE	01178	CROSS SECTIONS	
SECTION	SECTION 9-15	MIDDLE TO LOWER STREAM (6/8)	
NO.	01100	9-15	
DATE		BY	
		DATE	MARCH 1989
JAPAN INTERNATIONAL COOPERATION AGENCY			

JICA