

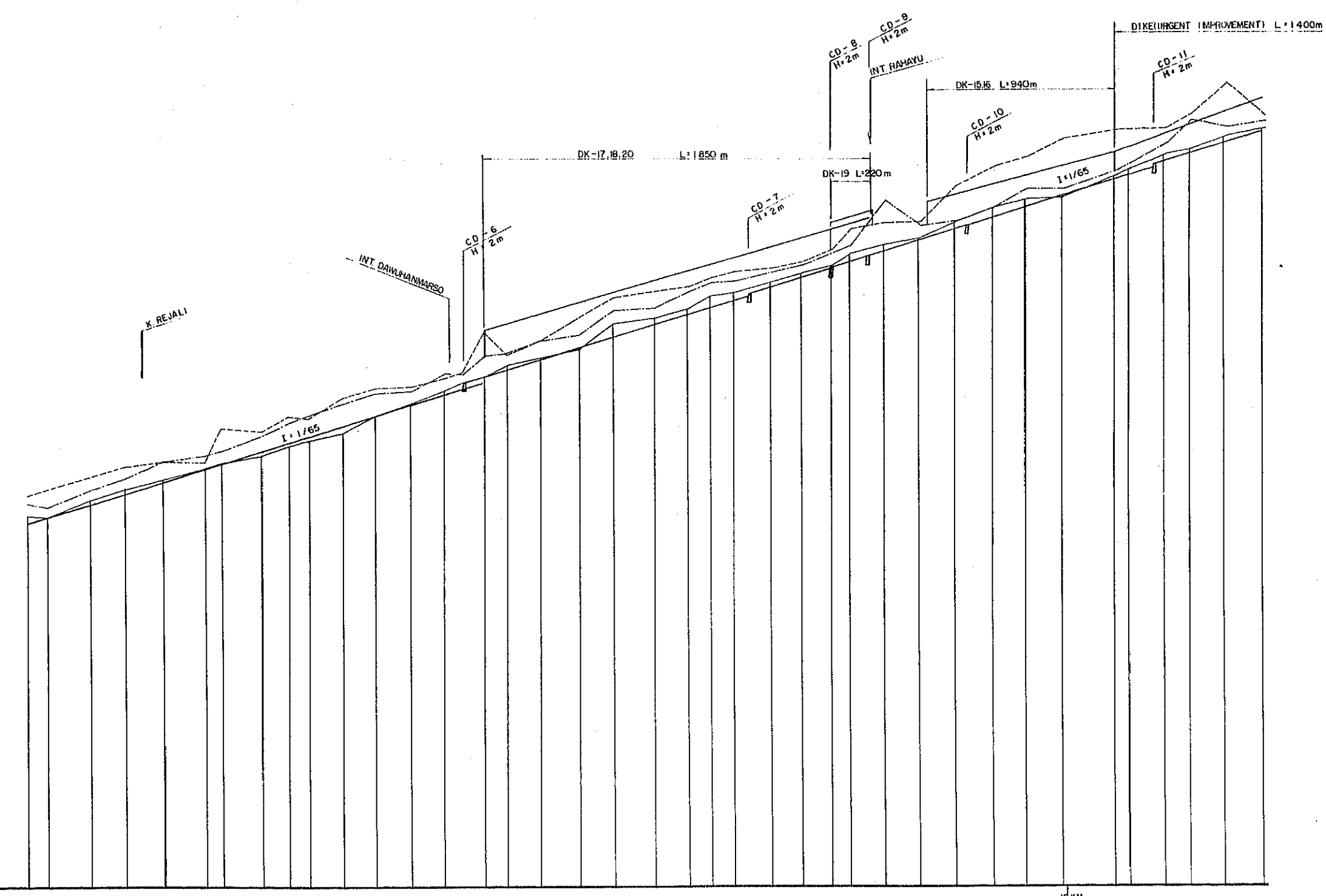
EL. 20000

15000

10000

5000

0.00



LEGEND

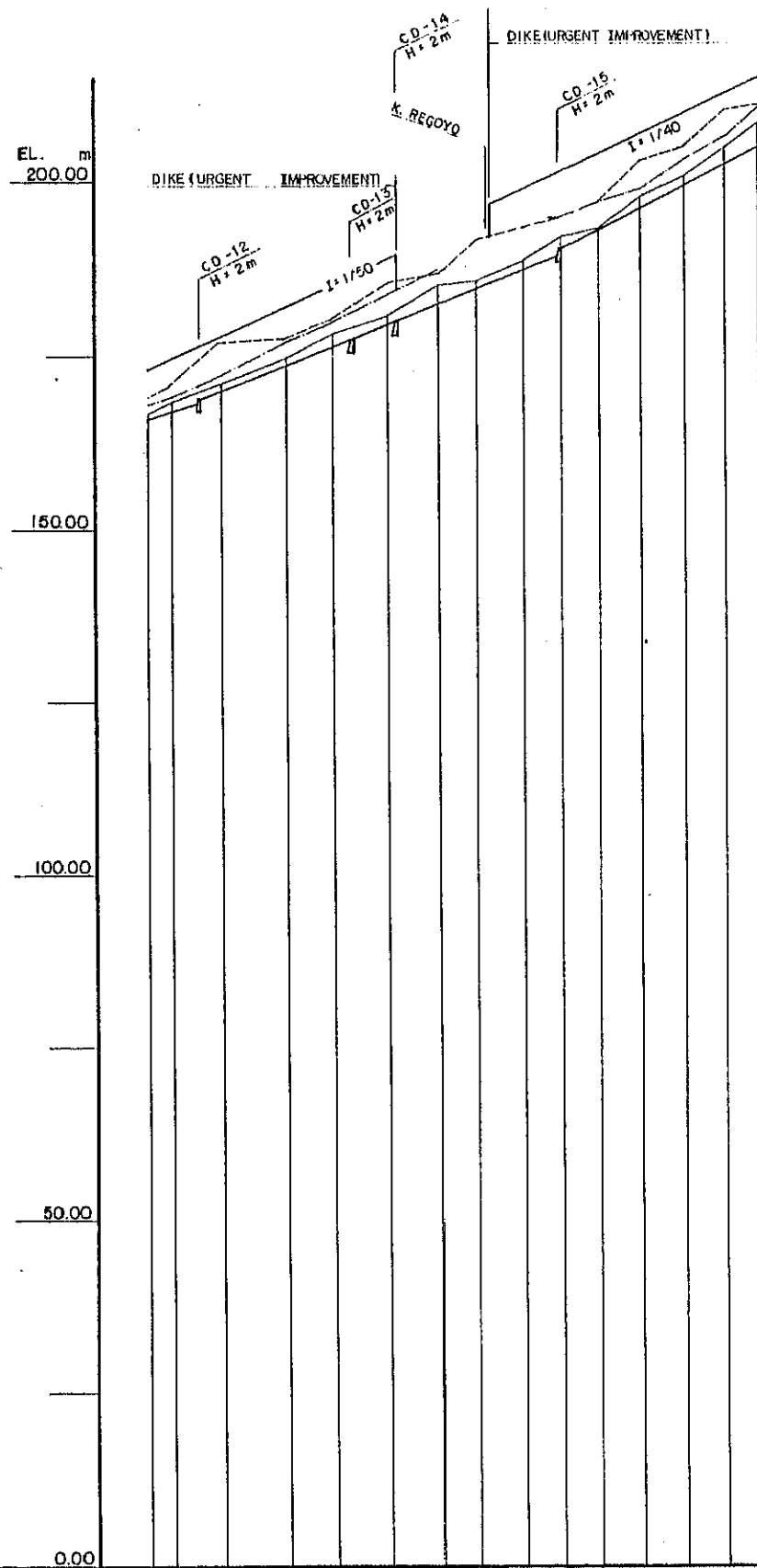
- ORIGINAL RIVER BED
- DESIGN RIVER BED
- - - LEFT BANK
- - - RIGHT BANK

- C D CONSOLIDATION DAM
- CHD CHECK DAM
- D K DIKE

GRADIENT OF ORIGINAL RIVER BED
LOWEST RIVER BED HEIGHT
ACCUMULATED DISTANCE
DISTANCE
STATION

5390	81644	95	40
5405	81507	185	41
5670	8508	150	42
5820	87408	170	43
5950	89259	190	44
6190	92025	75	45
6225	93055	175	46
6450	94715	120	47
6550	96803	85	48
6635	97903	150	49
6785	99605	150	50
6935	103487	160	51
7095	106180	150	52
7245	108907	80	53
7325	110707	100	54
7425	112194	100	55
7525	114757	150	56
7675	116483	175	57
7850	118355	155	58
8005	123827	180	59
8185	125074	150	60
8335	127053	100	61
8405	129904	100	62
8535	130594	170	63
8705	133030	135	64
8840	135091	130	65
8970	136673	80	66
9050	139313	130	67
9180	141260	160	68
9350	142508	230	69
9510	145958	60	70
9620	149183	160	71
9820	151002	140	72
9980	151542	115	73
10210	156176	160	74
10270	157592	115	75
10400	160814	155	76
10545	161878	170	77
10700	164858		78
10870	166453		79

REPUBLIC OF INDONESIA		SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU		H = 1:10000 V = 1:500
LONGITUDINAL PROFILE OF K. REJARI (2)		SMF 15
JAPAN INTERNATIONAL COOPERATION AGENCY		
DRAWN	CHECKED	APPROVED



- LEGEND
- ORIGINAL RIVER BED
 - DESIGN RIVER BED
 - - - LEFT BANK
 - - - RIGHT BANK
 - CD CONSOLIDATION DAM
 - CHD CHECK DAM
 - DK DIKE

GRADIENT OF ORIGINAL RIVER BED
LOWEST RIVER BED HEIGHT
ACCUMULATED DISTANCE
DISTANCE
STATION

166.453	168.219	170.949	174.769	178.415	180.815	185.171	185.771	188.611	192.106	193.525	197.854	201.004	205.000	208.822
70870	10940	1080	11270	1410	1558	1719	1831	1966	2076	2186	2310	2436	2556.5	2660.5
79	80	81	82	83	84	85	86	87	88	89	90	91	92	93

REPUBLIC OF INDONESIA	SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU	H:1:10000 V:1:500
LONGITUDINAL PROFILE OF K. REJARI (3)	SMF 1 16
JICA JAPAN INTERNATIONAL COOPERATION AGENCY	
DRAWN	CHECKED
APPROVED	

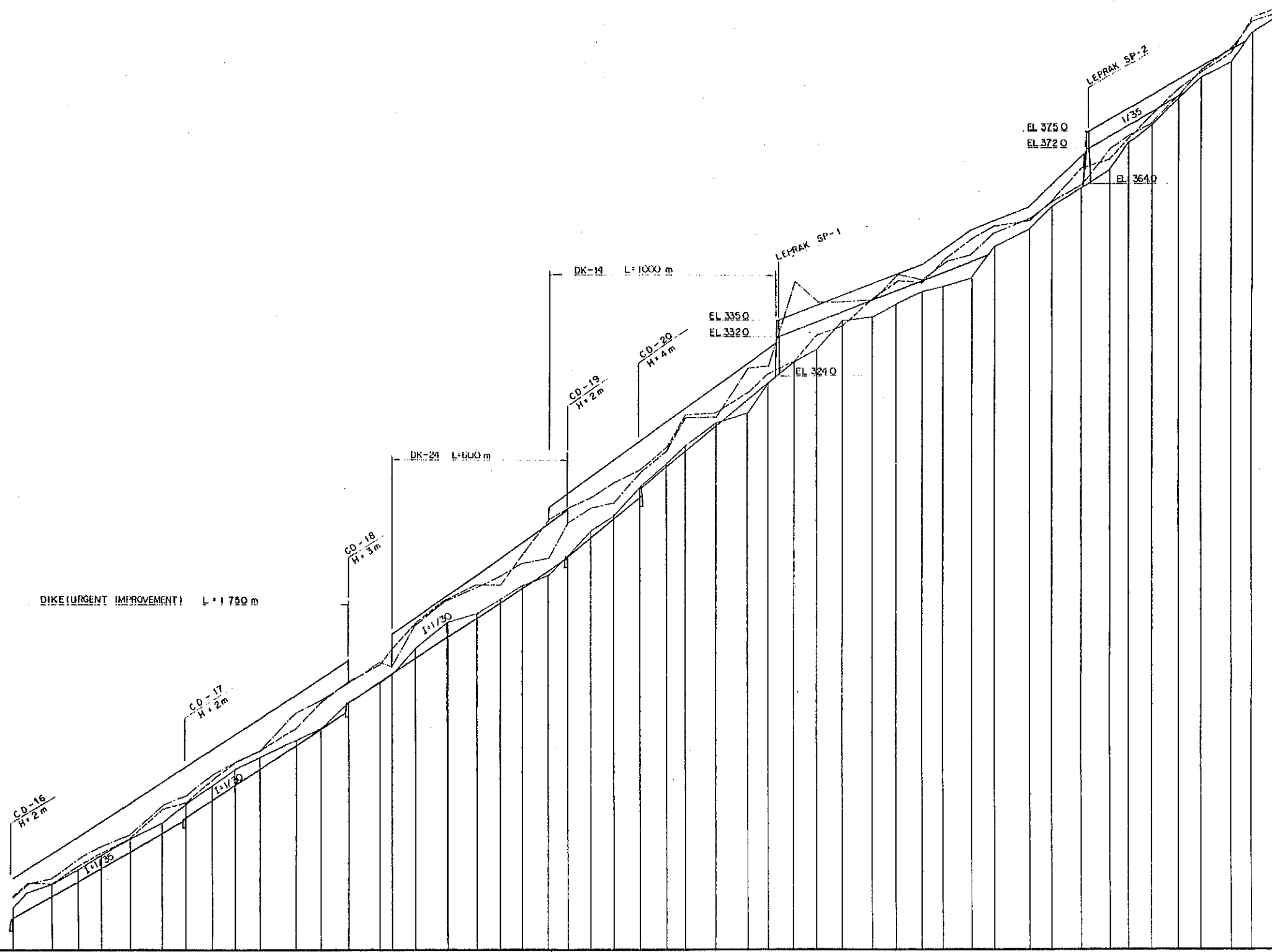
EL. m
400.00

350.00

300.00

250.00

200.00



LEGEND

- ORIGINAL RIVER BED
- DESIGN RIVER BED
- LEFT BANK
- .-.- RIGHT BANK
- CD CONSOLIDATION DAM
- CHD CHECK DAM
- DK DIKE

GRADIENT OF
ORIGINAL RIVER BED

LOWEST
RIVER BED HEIGHT

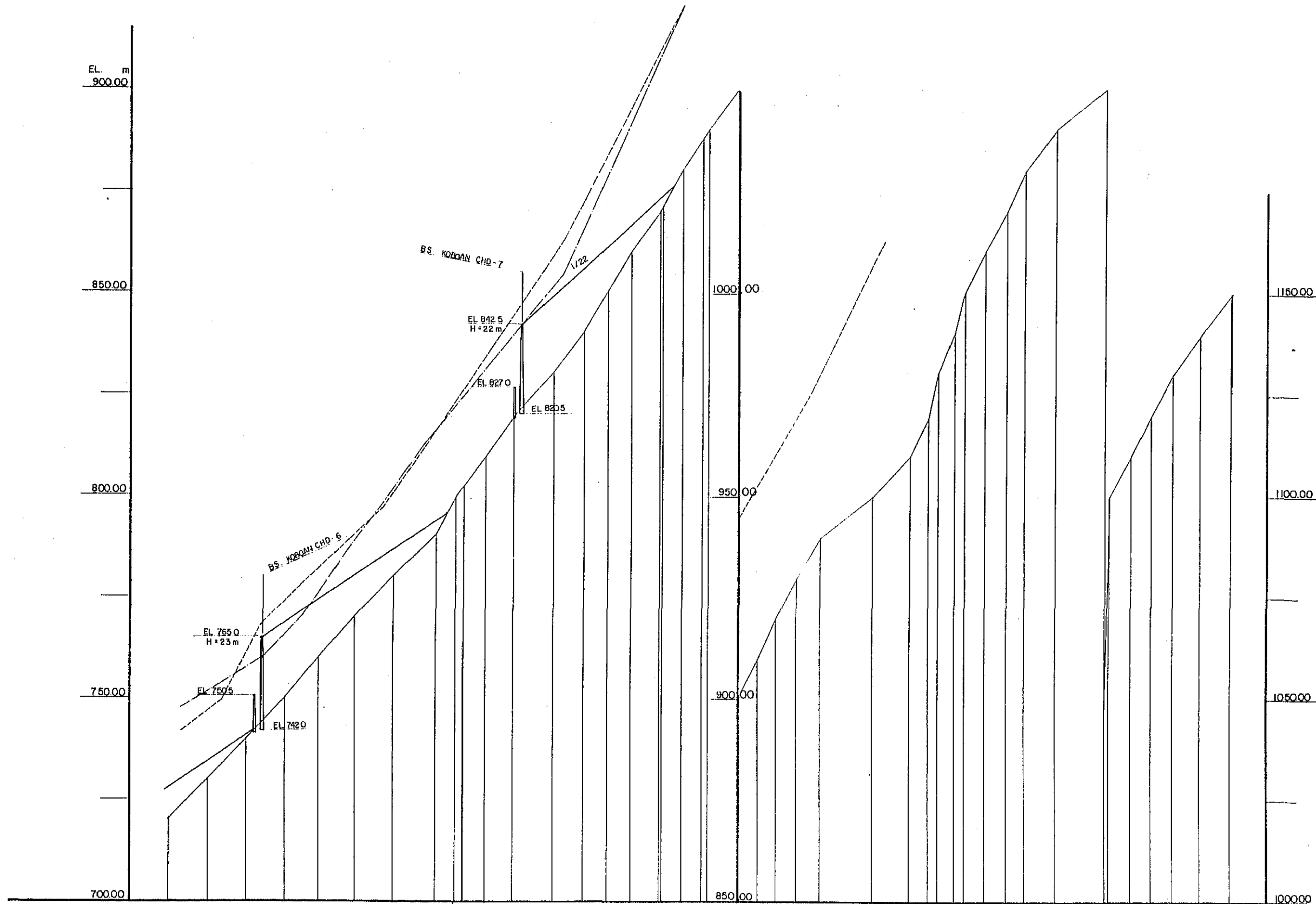
ACCUMULATED
DISTANCE

DISTANCE

STATION

0	1.3650	5.206	822	1.1/28.9
70	1.2750	5.212	262	
99	1.2829	5.214	092	
109	1.2938	5.217	342	
98	1.2036	5.220	348	
120	1.3156	5.228	818	
150.5	1.3307	5.227	268	
99	1.3406	5.231	208	
101	1.3520	5.235	102	
102	1.3619	5.238	050	
107	1.3726	5.241	370	
104	1.3878	5.244	918	
105	1.3990	5.247	250	
106	1.4113	5.253	990	
107	1.4245	5.257	117	
108	1.4289	5.259	172	
109	1.4393	5.264	872	
110	1.4541	5.270	172	
111	1.4673	5.272	460	
112	1.4778	5.272	750	
113	1.4870	5.278	940	
114	1.4987	5.281	074	
115	1.5070	5.284	895	
116	1.5175	5.290	695	
117	1.5274	5.293	615	
118	1.5396	5.298	834	
119	1.5501	5.304	618	
120	1.5581	5.308	615	
121	1.5713	5.313	413	
122	1.5853	5.315	741	
123	1.5943	5.322	209	
124	1.6053	5.326	457	
125	1.6149	5.329	165	
126	1.6255	5.335	174	
127	1.6386	5.336	163	
128	1.6492	5.339	076	
129	1.6595	5.341	272	
130	1.6698	5.342	832	
131	1.6848	5.344	458	
132	1.6920	5.350	988	
133	1.7058	5.354	708	
134	1.7164	5.359	800	
135	1.7293	5.363	574	
136	1.7412	5.367	387	
137	1.7492	5.373	079	
138	1.7590	5.376	709	
139	1.7705	5.382	575	
140	1.7808	5.387	075	
141	1.7927	5.390	402	
142	1.8024	5.396	707	
143	1.8159	5.400	582	

REPUBLIC OF INDONESIA		SCALE
THE FEASIBILITY STUDY ON THE VOLGANG DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU		H: 1:10000 V: 1:500
LONGITUDINAL PROFILE OF K. REJARI (4)		SMF 1 17
JAPAN INTERNATIONAL COOPERATION AGENCY		
DRAWN	CHECKED	APPROVED
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

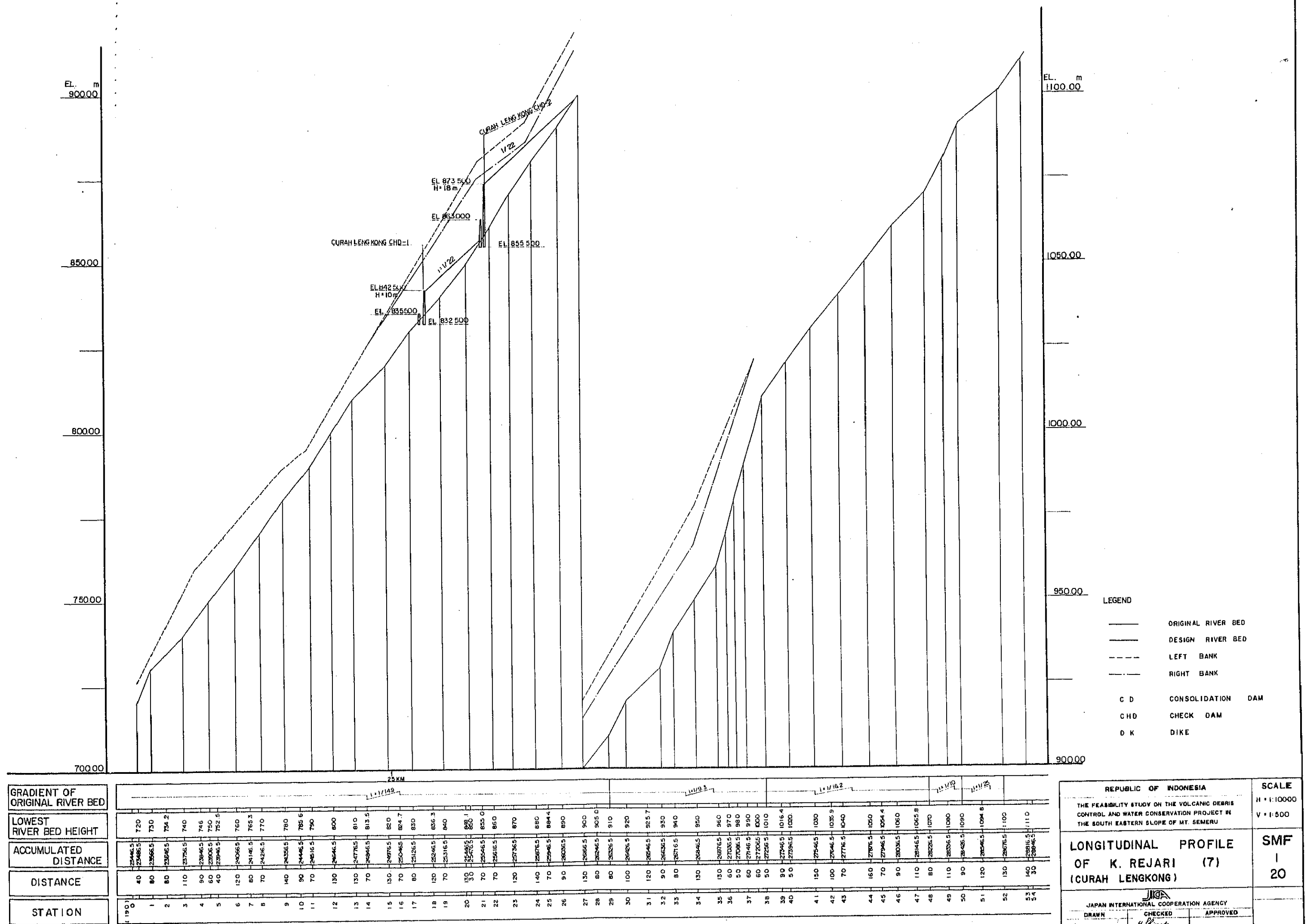


LEGEND

— ORIGINAL RIVER BED
 - - - DESIGN RIVER BED
 . . . LEFT BANK
 - . . . RIGHT BANK

C.D. CONSOLIDATION DAM
 C.H.D. CHECK DAM
 D.K. DIKE

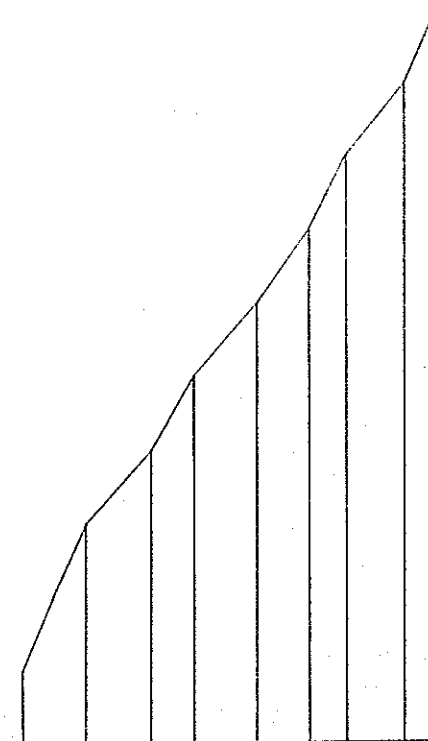
GRADIENT OF ORIGINAL RIVER BED		
LOWEST RIVER BED HEIGHT		
ACCUMULATED DISTANCE		
DISTANCE		
STATION		



EL. m
1200.00

1150.00

1100.00



LEGEND

- ORIGINAL RIVER BED
- DESIGN RIVER BED
- - - LEFT BANK
- - - RIGHT BANK
- C D CONSOLIDATION DAM
- CHD CHECK DAM
- D K DIKE

GRADIENT OF ORIGINAL RIVER BED
LOWEST RIVER BED HEIGHT
ACCUMULATED DISTANCE
DISTANCE
STATION

1:1.75	1:1.75
111.0	111.8
112.0	113.0
113.0	113.3
114.0	114.7
115.0	115.5
116.0	116.0
117.0	117.0
118.0	118.3
119.0	119.0
120.0	120.0
54	55
56	57
58	59
60	61
62	63
64	65

REPUBLIC OF INDONESIA		SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU		H = 1 : 10000 V = 1 : 500
LONGITUDINAL PROFILE OF K. REJARI (8) (CURAH LENGKONG)		SMF 1 21
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		
DRAWN	CHECKED	APPROVED
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

EL m
200.00

150.00

100.00

50.00

0.00

DK-13 L=200m

DK-12 L=400m

DK-11 L=1400m

DK-8,9 L=1300m

DK-3,4,5,6,7 L=2300m

DK-10 L=2000m

K. MANJING

LEGEND

— ORIGINAL RIVER BED
— DESIGN RIVER BED
--- LEFT BANK
--- RIGHT BANK

C D CONSOLIDATION DAM
CHD CHECK DAM
D K DIKE

GRADIENT OF
ORIGINAL RIVER BED

LOWEST
RIVER BED HEIGHT

ACCUMULATED
DISTANCE

DISTANCE

STATION

0+0	1	3099.0	3099.0	43.805
	2	90.0	3189.0	43.016
	3	82.0	3271.0	45.015
	4	74.0	3345.0	46.100
	5	140.0	3485.0	47.497
	6	103.0	3588.0	48.885
	7	109.0	3697.0	47.406
	8	111.0	3808.0	48.134
	9	102.0	3910.0	47.752
	10	104.0	4014.0	51.434
	11	94.0	4108.0	50.518
	12	111.0	4219.0	54.578
	13	158.0	4377.0	57.594
	14	50.0	4427.0	56.742
	15	145.0	4572.0	60.151
	16	131.0	4709.0	63.613
	17	112.0	4821.0	64.371
	18	69.0	4890.0	66.200
	19	83.0	4973.0	68.172
	20	104.0	5077.0	68.041
	21	91.0	5168.0	69.969
	22	82.0	5300.0	73.060
	23	135.0	5433.0	75.718

REPUBLIC OF INDONESIA
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS
CONTROL AND WATER CONSERVATION PROJECT IN
THE SOUTH EASTERN SLOPE OF MT. SEMERU

LONGITUDINAL PROFILE
OF K. GLIDIK (I)

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY
DRAWN CHECKED APPROVED

SCALE
H:1:10000
V:1:500

SMF
1
22

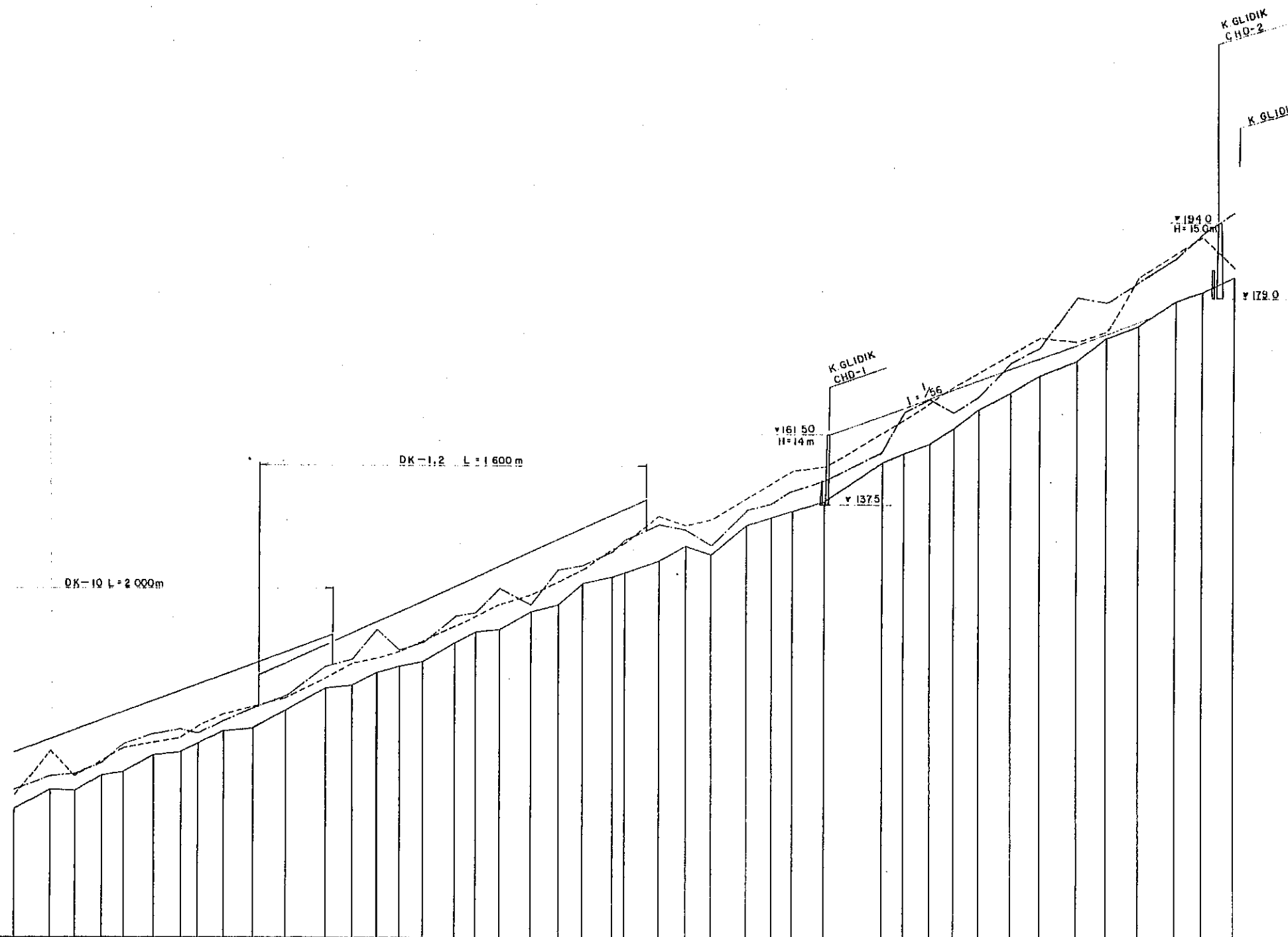
EL m
250.00

200.00

150.00

100.00

50.00



LEGEND

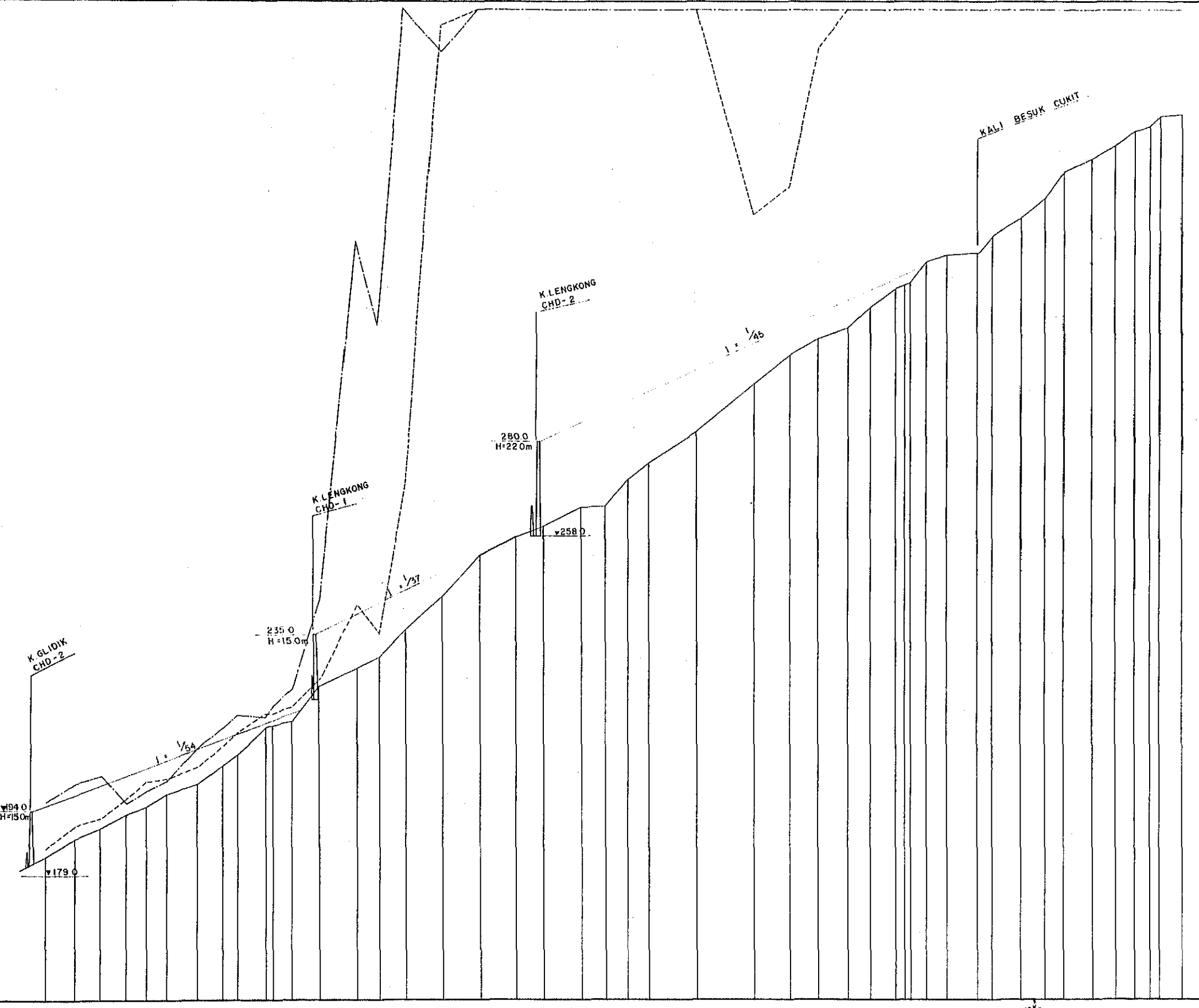
- ORIGINAL RIVER BED
- DESIGN RIVER BED
- - - LEFT BANK
- - - RIGHT BANK
- C D CONSOLIDATION DAM
- CHD CHECK DAM
- D K DIKE

GRADIENT OF ORIGINAL RIVER BED
LOWEST RIVER BED HEIGHT
ACCUMULATED DISTANCE
DISTANCE
STATION

23	133.0	5433.0	75.716
24	143.0	5576.0	79.789
25	106.0	5682.0	79.547
26	103.0	5785.0	82.462
27	92.0	5877.0	83.288
28	124.0	6001.0	86.679
29	108.0	6090.0	87.373
30	64.0	6173.0	89.124
31	108.0	6281.0	91.579
32	116.0	6397.0	92.004
33	134.0	6531.0	95.647
34	154.0	6695.0	100.076
35	110.0	6805.0	100.777
36	100.0	6905.0	103.402
37	90.0	6995.0	104.527
38	96.0	7081.0	105.699
39	130.0	7221.0	109.409
40	83.0	7304.0	111.574
41	103.0	7407.0	112.198
42	130.0	7537.0	115.537
43	112.0	7649.0	117.106
44	98.0	7747.0	121.354
45	126.0	7873.0	122.533
46	260.0	7919.0	123.427
47	134.0	8055.0	125.343
48	110.0	8163.0	128.819
49	106.0	8271.0	127.040
50	134.0	8405.0	132.889
51	114.0	8519.0	134.739
52	80.0	8590.0	136.168
53	129.0	8728.0	138.131
54	230.0	8958.0	146.020
55	86.0	9044.0	147.727
56	110.0	9154.0	149.757
57	96.0	9250.0	152.716
58	100.0	9350.0	156.742
59	128.0	9478.0	160.024
60	118.0	9596.0	163.625
61	142.0	9736.0	166.474
62	124.0	9862.0	171.101
63	130.0	9992.0	173.429
64	150.0	1042.0	178.329
65	112.0	1024.0	180.119
66	125.0	10379.0	183.313

REPUBLIC OF INDONESIA		SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU		H: 1:10000 V: 1:500
LONGITUDINAL PROFILE OF K. GLIDIK (2)		SMF 1 23
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		
DRAWN	CHECKED	APPROVED

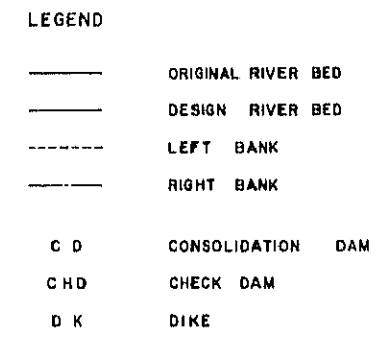
350.00
300.00
250.00
200.00
150.00



- LEGEND
- ORIGINAL RIVER BED
 - DESIGN RIVER BED
 - - - LEFT BANK
 - - - RIGHT BANK
 - C D CONSOLIDATION DAM
 - CHD CHECK DAM
 - O K DIKE

GRADIENT OF ORIGINAL RIVER BED
LOWEST RIVER BED HEIGHT
ACCUMULATED DISTANCE
DISTANCE
STATION

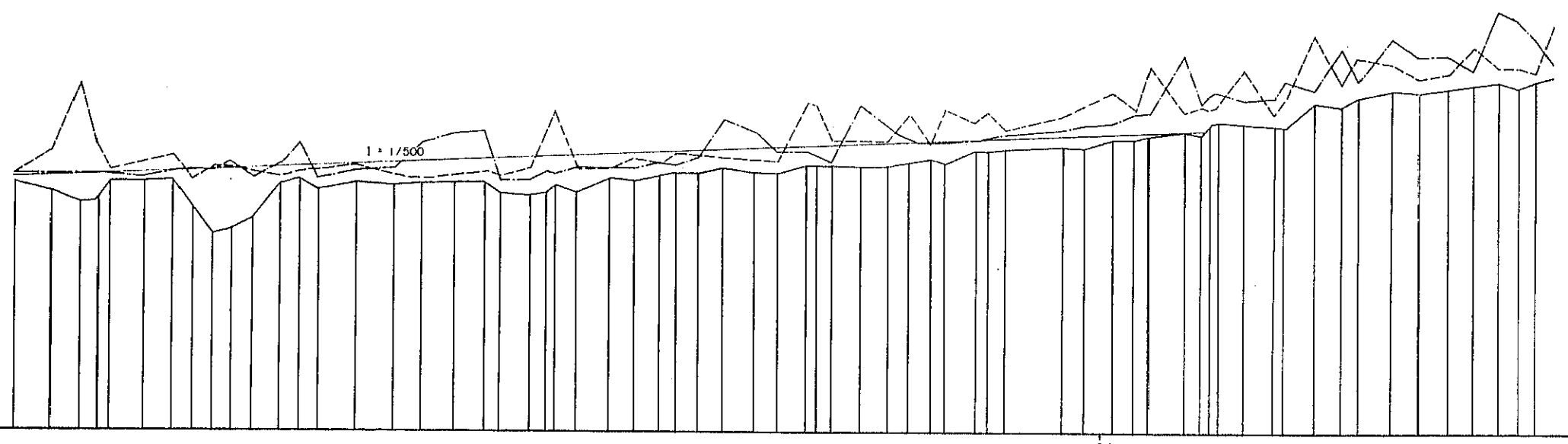
66	125.0	103750	183.313																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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STATION	DISTANCE	ACCUMULATED DISTANCE	LOWEST RIVER BED HEIGHT	GRADIENT OF ORIGINAL RIVER BED
111	106.0	157080.0	355.517	
112	110.0	158180.0	359.885	$\frac{1}{L} = \frac{1}{4637}$
113	137.0	159550.0	361.664	
114	71.0	160260.0	365.539	
115	167.0	161930.0	369.553	
116	157.0	163500.0	374.548	
117	56.0	164060.0	375.726	
118	170.0	165760.0	381.821	
119 (CP16)	130.0	167060.0	387.676	
120	100.0	168060.0	389.030	
121	108.0	169140.0	409.686	
122	153.0	170670.0	418.238	
123	142.0	172090.0	421.798	
124	118.0	173240.0	428.240	
125	130.0	174570.0	433.226	
126	60.0	175170.0	435.416	
127	90.0	176070.0	443.736	
128	216.0	178230.0	454.725	
129 (CP15)	87.0	179100.0	462.934	$\frac{1}{L} = \frac{1}{2079}$
130	48.0	179580.0	467.689	
131	82.0	180400.0	459.836	
132	135.0	181750.0	459.927	
133	112.0	182870.0	460.476	
134	92.0	183790.0	468.946	
135	52.0	184310.0	469.690	
136	48.0	184790.0	4614.207	
137	60.0	185390.0	4613.128	
138	16.0	185530.0	4630.915	
139	112.0	187670.0	4634.470	
140	98.0	188650.0	4639.230	
141	97.0	189620.0	4645.068	
142	100.0	190620.0	4650.716	
143	100.0	191620.0	4656.392	
144	78.0	192400.0	4660.365	
145	78.0	193180.0	4664.668	
146	103.0	194210.0	4668.9035	
147	81.0	195020.0	4672.410	
148	210.0	197120.0	4676.310	
149	74.0	197860.0	4678.255	
150	98.0	198840.0	4681.138	
151	140.0	200240.0	4685.745	
152	134.0	201580.0	4685.748	
153	101.0	202590.0	4685.678	
154	130.0	203890.0	4689.381	
155	52.0	204410.0	4689.431	
156	89.0	205590.0	4690.240	
157	128.0	206970.0	4692.307	
158	120.0	208170.0	4693.013	
159	40.0	208570.0	4692.462	
160	94.0	209590.0	4693.307	
161	89.0	210400.0	4693.293	

<p>REPUBLIC OF INDONESIA</p>			<p>SCALE</p>
<p>THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU</p>			<p>H = 1 : 10000 V = 1 : 500</p>
			<p>SMF</p>
<p>LONGITUDINAL PROFILE</p>			<p> </p>
<p>OF K. GLIDIK (4)</p>			<p>25</p>
<p>JICA</p>			
<p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>			
<p>DRAWN</p>	<p>CHECKED</p>	<p>APPROVED</p>	
	<p><i>Y. H. H. H.</i></p>		

850.00
800.00
750.00
700.00
650.00



- LEGEND
- ORIGINAL RIVER BED
 - DESIGN RIVER BED
 - LEFT BANK
 - RIGHT BANK
 - C D CONSOLIDATION DAM
 - CH D CHECK DAM
 - D K DIKE

GRADIENT OF ORIGINAL RIVER BED
LOWEST RIVER BED HEIGHT
ACCUMULATED DISTANCE
DISTANCE
STATION

162	120.0	211.60	0	693.185	
163	128.0	21288.0	0	691.876	
164	98.0	21396.0	0	689.876	
165	62.0	21446.0	0	690.148	
166	44.0	21490.0	0	693.486	
167	120.0	21610.0	0	693.891	
168	100.0	21716.0	0	693.129	
169	68.0	21778.0	0	689.129	
170	74.0	21852.0	0	694.430	
171	62.0	21915.0	0	686.354	
172	80.0	21995.0	0	687.336	
173	94.0	22089.0	0	693.257	
174	71.0	22160.0	0	694.050	
175	67.0	22227.0	0	692.040	
176	128.0	22355.0	0	693.440	
177	136.0	22491.0	0	692.825	
178	96.0	22587.0	0	693.244	
179	118.0	22705.0	0	693.180	
180	109.0	22814.0	0	693.322	
181	57.0	22871.0	0	692.513	
182	103.0	22974.0	0	692.130	
183	56.0	23034.0	0	693.720	
184	72.0	23144.0	0	692.814	
185	114.0	23258.0	0	694.194	
186	90.0	23348.0	0	693.667	
187	65.0	23433.0	0	694.576	
188	57.0	23490.0	0	695.153	
189	84.0	23574.0	0	695.252	
190	94.0	23668.0	0	696.235	
191	115.0	23783.0	0	695.256	
192	83.0	23866.0	0	695.165	
193	104.0	23950.0	0	696.567	
194	97.0	24007.0	0	696.237	
195	50.0	24057.0	0	696.466	
196	103.0	24160.0	0	695.353	
197	93.0	24253.0	0	696.545	
198	75.0	24328.0	0	697.173	
199	72.0	24401.0	0	697.763	
200	52.0	24453.0	0	697.379	
201	102.0	24555.0	0	699.314	
202	60.0	24604.0	0	699.237	
203	64.0	24668.0	0	699.498	
204	196.0	24864.0	0	699.561	
205	80.0	24944.0	0	699.876	
206	94.0	25038.0	0	701.352	
207	80.0	25118.0	0	701.424	
208	47.0	25165.0	0	701.916	
209	125.0	25290.0	0	702.710	
210	59.0	25348.0	0	702.304	
211	23.0	25400.0	0	702.304	
212	102.0	25503.0	0	704.069	
213	110.0	25551.0	0	703.433	
214	35.0	25547.0	0	703.630	
215	101.0	25748.0	0	707.928	
216	96.0	25844.0	0	707.156	
217	58.0	25902.0	0	708.877	
218	115.0	26017.0	0	710.035	
219	102.0	26119.0	0	709.511	
220	98.0	26217.0	0	710.363	
221	92.0	26309.0	0	710.740	
222	86.0	26397.0	0	711.365	
223	72.0	26467.0	0	710.470	
224	62.0	26531.0	0	711.648	
225	64.0	26595.0	0	712.535	

REPUBLIC OF INDONESIA

THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU

LONGITUDINAL PROFILE OF K. GLIDIK (5)

JICA
JAPAN INTERNATIONAL COOPERATION
DRAWN
CHECKED

SCALE
H=1:10000
V=1:500

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26

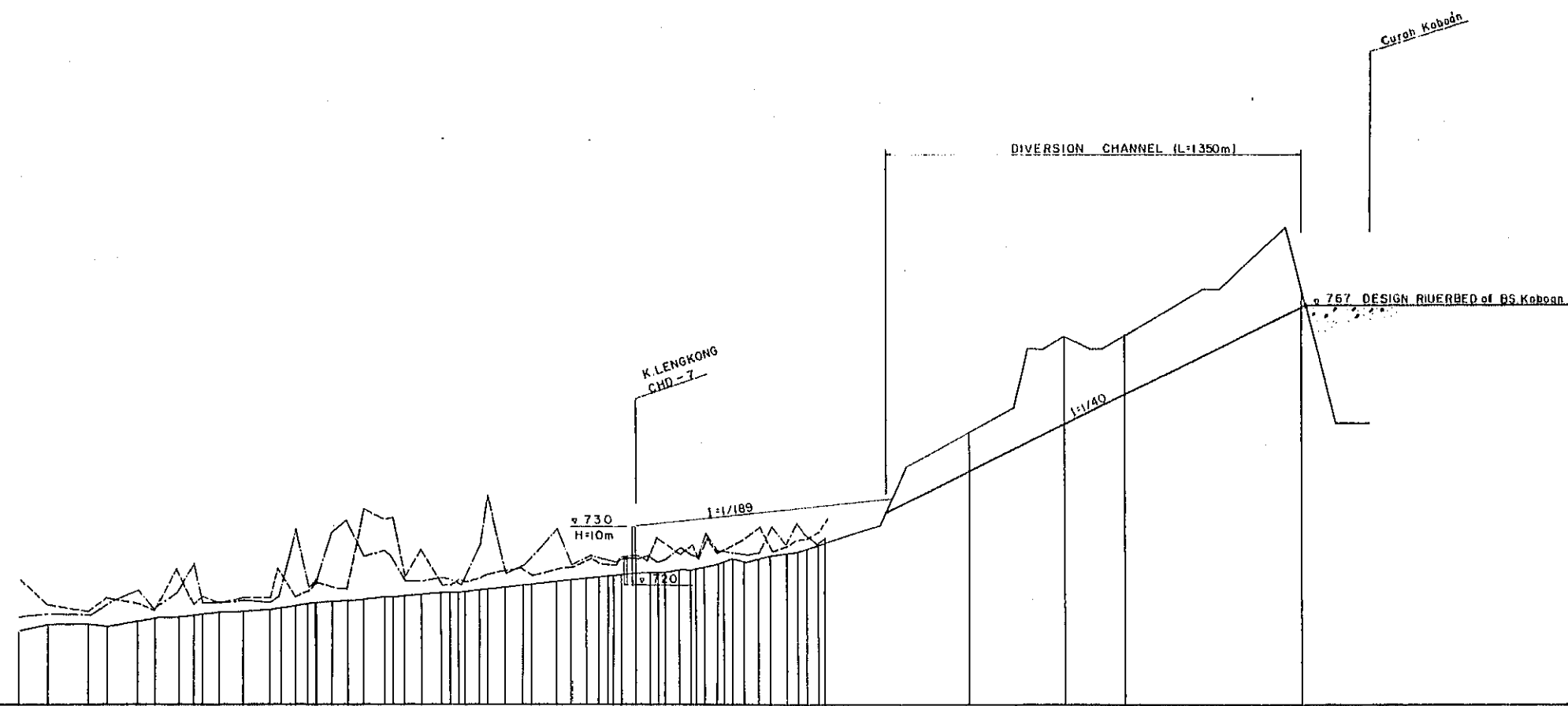
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800.00

750.00

700.00



LEGEND

- ORIGINAL RIVER BED
- DESIGN RIVER BED
- ... LEFT BANK
- .-.- RIGHT BANK
- C D CONSOLIDATION DAM
- CHD CHECK DAM
- D K DIKE

GRADIENT OF
ORIGINAL RIVER BED

LOWEST
RIVER BED HEIGHT

ACCUMULATED
DISTANCE

DISTANCE

STATION

227	640	265950	712555	1:1/134	1:1/148
228	980	266300	713711		
229	1330	266650	713516		
230	590	266550	713019		
231	965	269810	714192		
232	630	270440	714652		
233	840	271280	714705		
234	447	26575	715219		
235	538	26813	715219		
236	581	26846	715219		
237	676	263710	715219		
238	4740	259440	746000		
239	3206	301646	762000		
240	504	309640	770000		

REPUBLIC OF INDONESIA		SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU		H = 1:10000 V = 1:500
LONGITUDINAL PROFILE OF K. GLIDIK (6)		SMF 1 27
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		
DRAWN	CHECKED	APPROVED

800.00

750.00

700.00

650.00

600.00

1000.00

950.00

900.00

850.00

800.00

640.0
H=10m

1:1/30

630.0

KAL. BESUK SUPIT

KAL. BESUK SYARAT

LEGEND

— ORIGINAL RIVER BED
— DESIGN RIVER BED
--- LEFT BANK
--- RIGHT BANK

C D CONSOLIDATION DAM
CHD CHECK DAM
D K DIKE

GRADIENT OF
ORIGINAL RIVER BEDLOWEST
RIVER BED HEIGHTACCUMULATED
DISTANCE

DISTANCE

STATION

1	0.0	0.0	1630.519
CP181			
2	146.0	146.0	639.952
3	68.0	214.0	641.829
4	85.0	299.0	646.231
5	70.0	369.0	650.442
6	76.0	445.0	656.334
7	138.0	583.0	661.082
8	100.0	683.0	665.900
9	102.0	785.0	672.532
10	110.0	895.0	676.342
11	162.0	1057.0	684.576
12	80.0	1157.0	689.098
CP431			
13	116.0	1253.0	692.850
14	108.0	1361.0	698.679
15	71.0	1432.0	702.118
16	110.0	1542.0	708.481
17	100.0	1642.0	711.426
18	104.0	1746.0	716.124
19	108.0	1854.0	722.412
20	125.0	1989.0	725.342
21	106.0	2095.0	731.097
22	90.0	2185.0	732.854
23	98.0	2283.0	738.203
CP433			
24	96.0	2379.0	742.151
25	122.0	2501.0	749.555
26	80.0	2581.0	749.155
27	80.0	2661.0	750.049
28	122.0	2763.0	757.203
29	80.0	2863.0	757.134
30	102.0	2965.0	773.848
31	80.0	3025.0	781.759
32	41.0	3066.0	781.336
33	90.0	3156.0	785.896
CP441			
34	98.0	3246.0	796.433
35	96.0	3346.0	795.310
36	62.0	3366.0	795.469
37	90.0	3396.0	799.841
38	80.0	3476.0	800.401
39	102.0	3578.0	806.153
40	136.0	3714.0	812.053
41	60.0	3761.0	813.571
42	47.0	3821.0	817.383
43	72.0	3893.0	822.044
44	80.0	3973.0	824.666
45	120.0	4093.0	836.189
CP451			
46	110.0	4203.0	844.490
47	128.0	4331.0	859.209
48	33.0	4364.0	861.969
49	120.0	4484.0	864.197
50	66.0	4550.0	865.777
51	47.0	4597.0	869.897
52	82.0	4679.0	879.532
53	115.0	4794.0	884.040
54	141.0	4935.0	900.525
55	74.0	5009.0	901.164
56	122.0	5131.0	905.812
57	93.0	5224.0	914.826
CP46			
BN481			

REPUBLIC OF INDONESIA

THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS
CONTROL AND WATER CONSERVATION PROJECT IN
THE SOUTH EASTERN SLOPE OF MT. SEMERU

LONGITUDINAL PROFILE
OF K. GLIDIK (7)
(BSI BANG)

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY
DRAWN CHECKED APPROVED

SCALE

H = 1:10000

V = 1:500

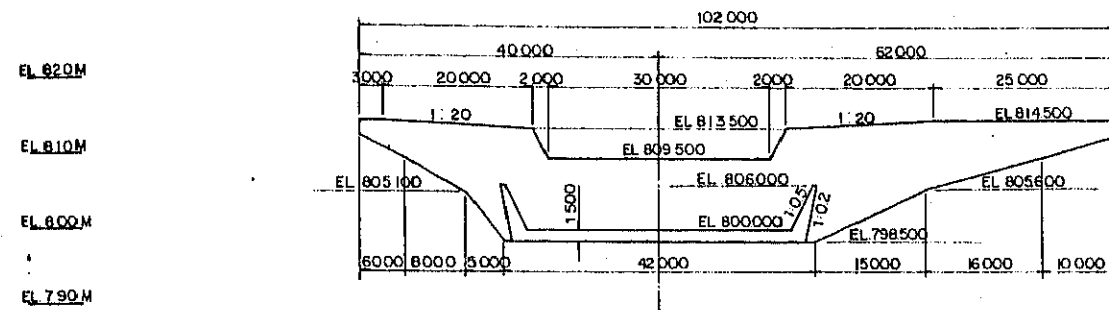
SMF

1

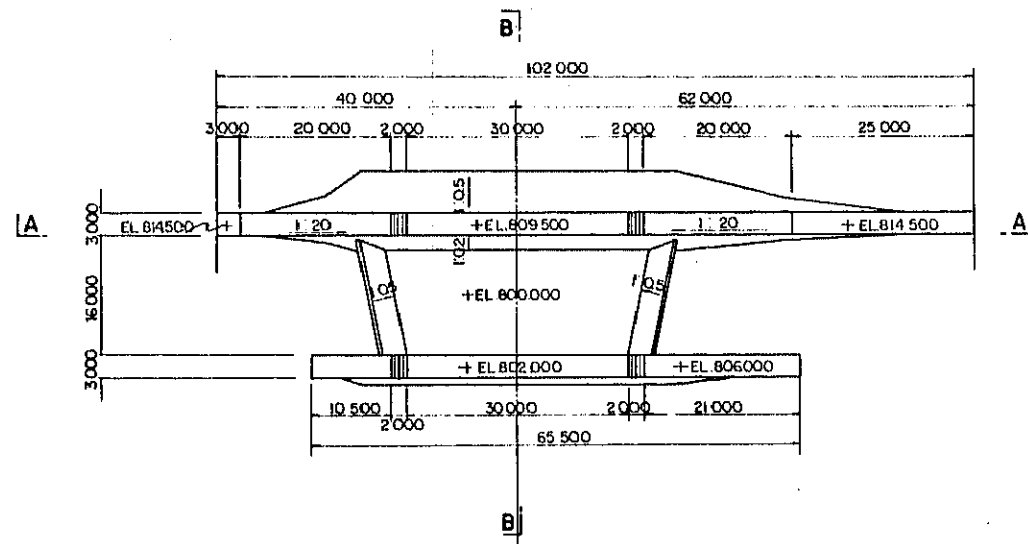
28

BS. SAT CHD-8

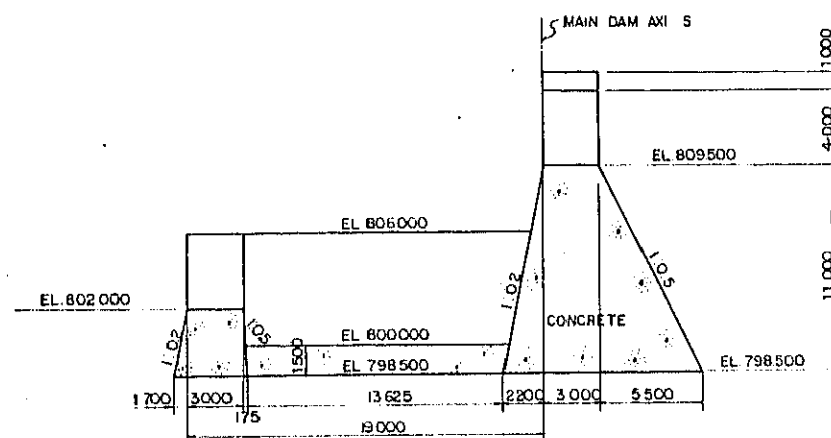
SECTION A-A S = 1:500



PLAN S = 1:500

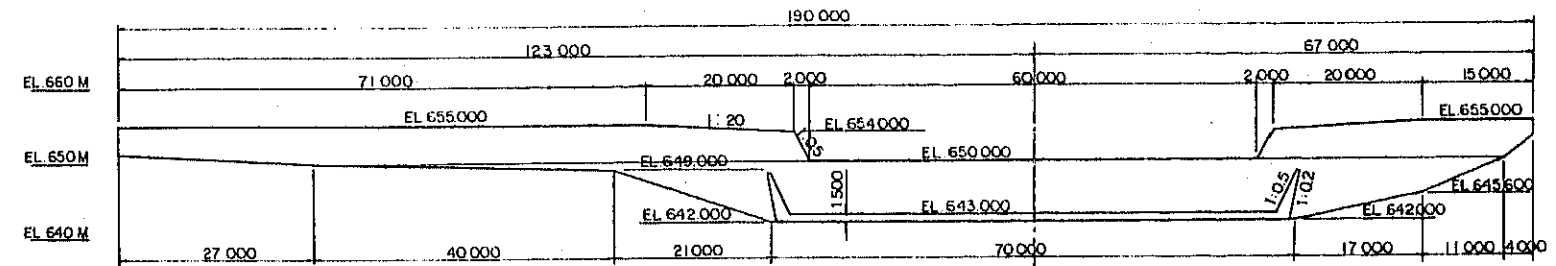


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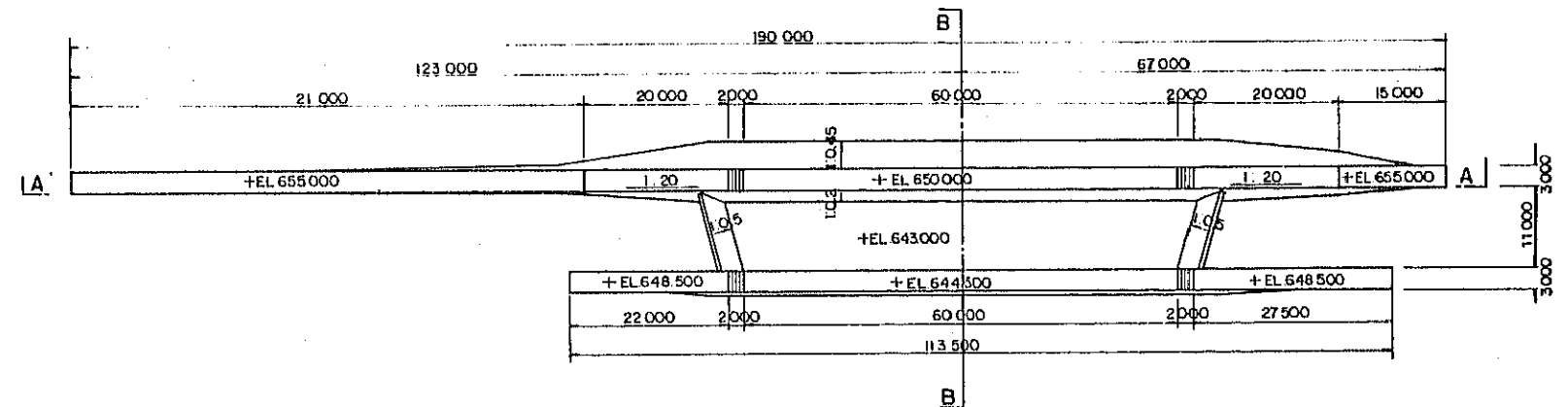


BS. SAT CHD-5

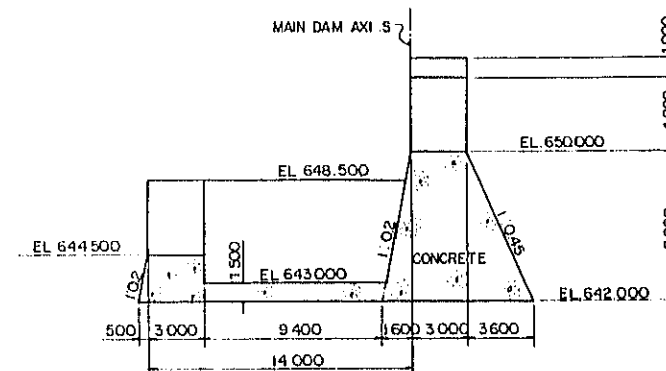
SECTION A-A S = 1:500



PLAN S = 1:500



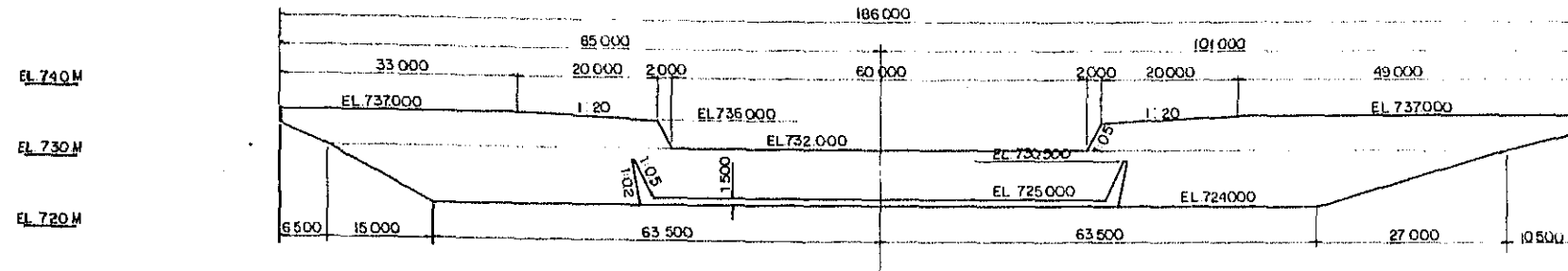
SECTION B-B S = 1:200



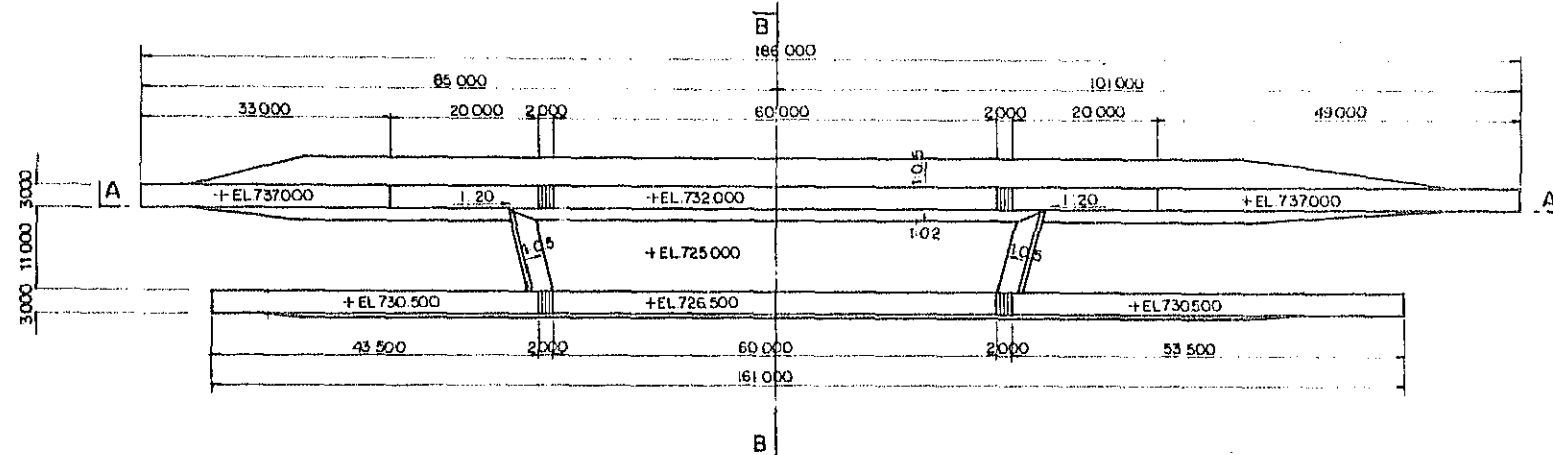
REPUBLIC OF INDONESIA			SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU			1:500
BS. SAT CHECK DAM-5			1:200
GENERAL DAM DESIGN			SMF
JICA			1
JAPAN INTERNATIONAL COOPERATION AGENCY			29
DRAWN	CHECKED	APPROVED	

BS. SAT CHECK DAM-6

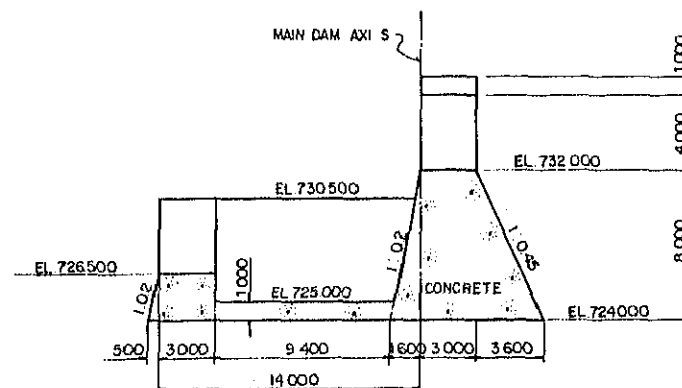
SECTION A-A S = 1 : 500



PLAN S = 1 : 500



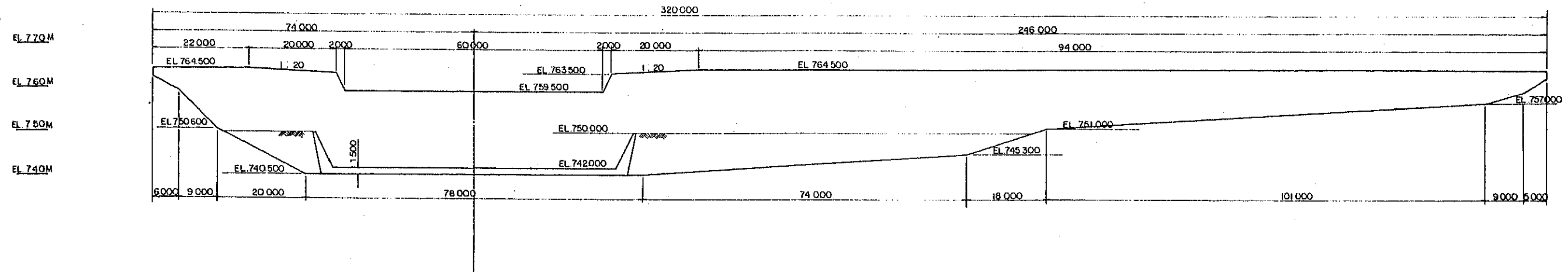
SECTION B-B S = 1 : 200



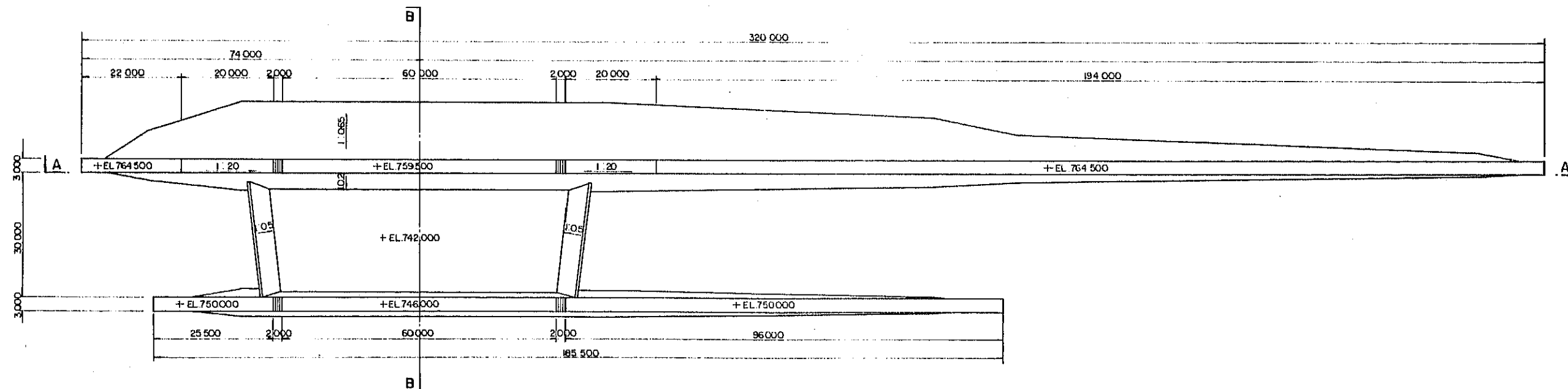
REPUBLIC OF INDONESIA			SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU			1 : 500
			1 : 200
BS. SAT CHECK DAM - 6			SMF
GENERAL DAM DESIGN			1
			30
JICA JAPAN INTERNATIONAL COOPERATION AGENCY			
DRAWN	CHECKED	APPROVED	
S. H. H.	J. H. H.	J. H. H.	

BS.SAT CHD-7

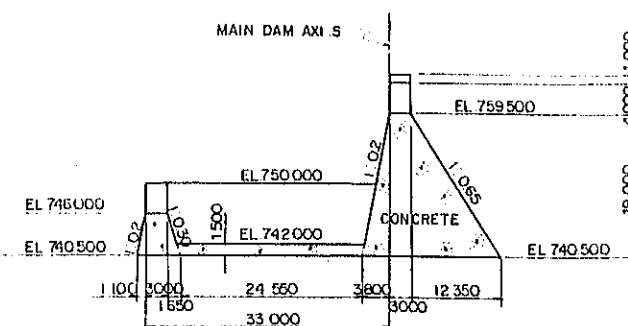
SECTION A—A S = 1:500



PLAN S = 1:500



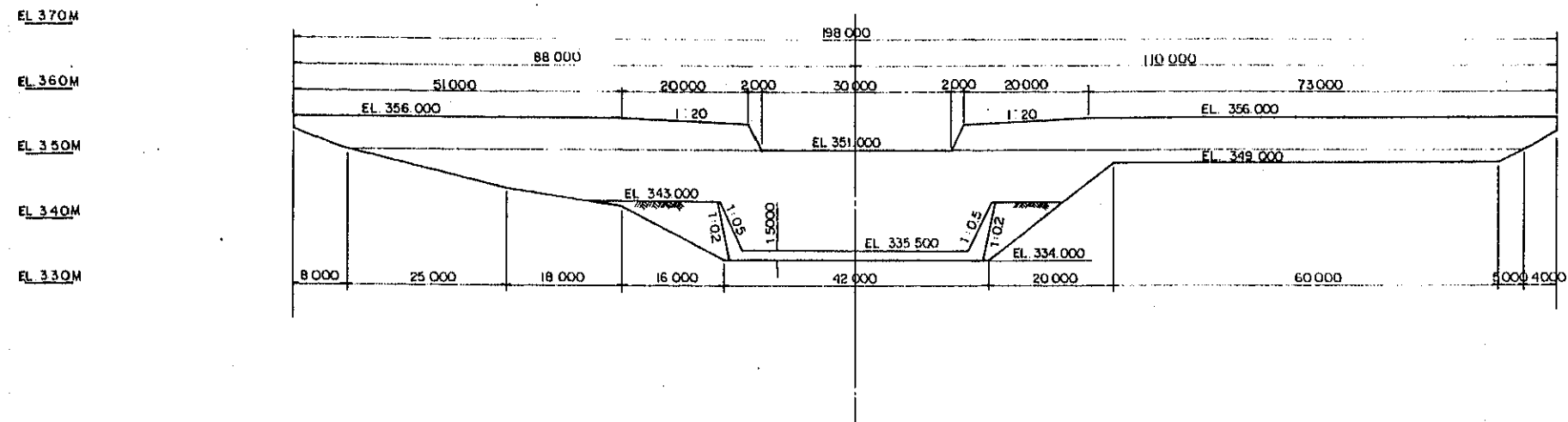
SECTION B—B S = 1:500



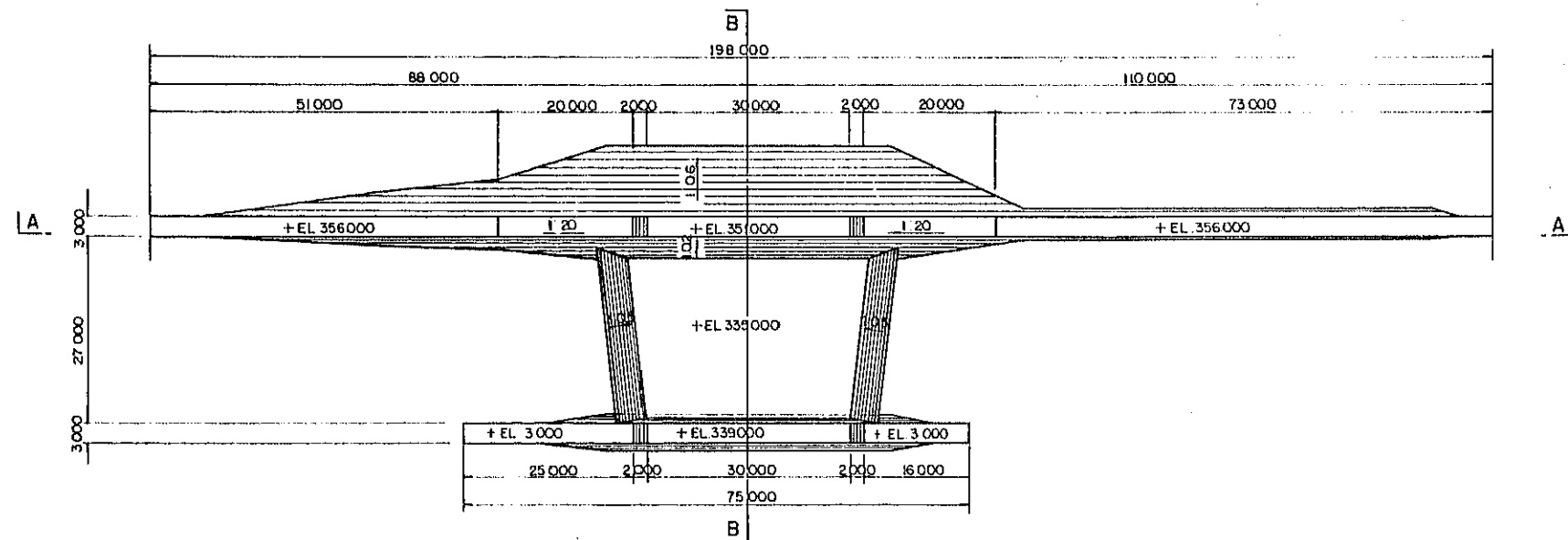
REPUBLIC OF INDONESIA			SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. BEMERU			1:500
BS, SAT CHECK DAM-7			SMF
GENERAL DAM DESIGN			1
JAPAN INTERNATIONAL COOPERATION AGENCY			31
DRAWN	CHECKED	APPROVED	

BS SAT CHD-9

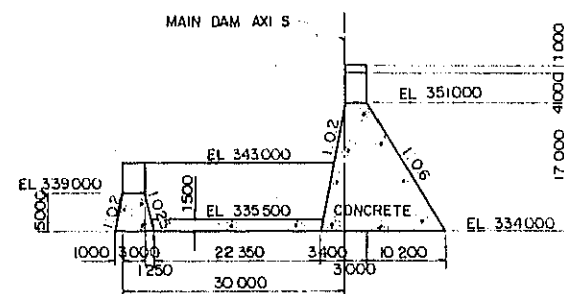
SECTION A-A S = 1:500



PLAN S = 1:500



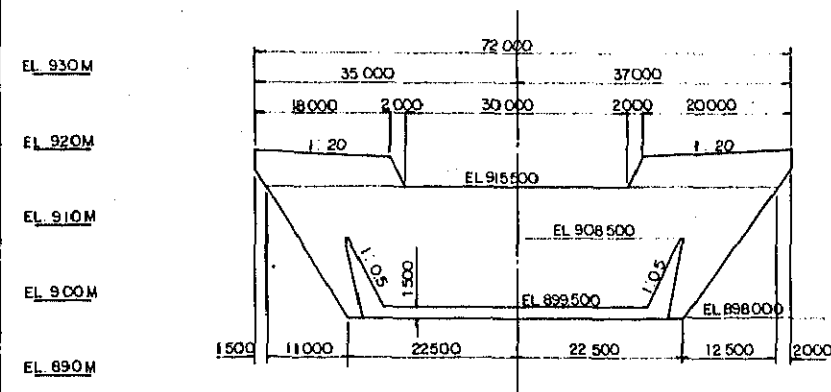
SECTION B-B S = 1:500



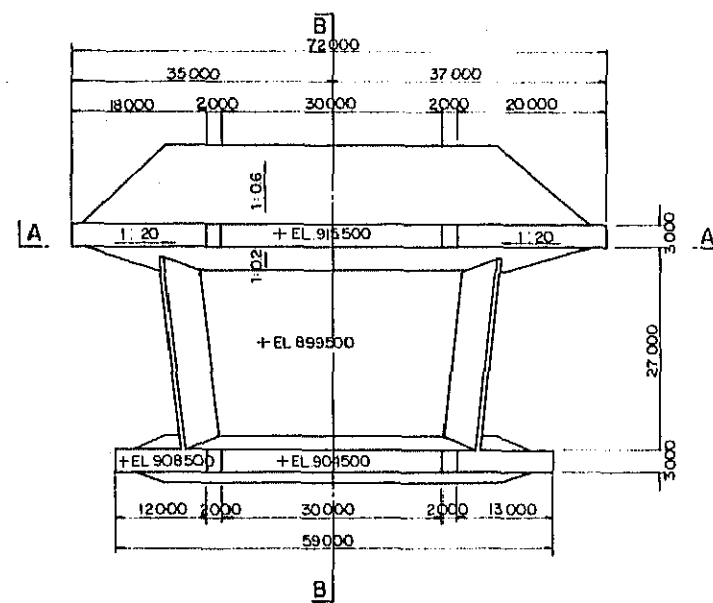
REPUBLIC OF INDONESIA			SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. BEMERU			1:500
BS. SAT CHECK DAM-9 GENERAL DAM DESIGN			SMF 1 32
JICA JAPAN INTERNATIONAL COOPERATION AGENCY			
DRAWN	CHECKED	APPROVED	
P. H. G.	J. H. G.		

BS SAT CHD-10

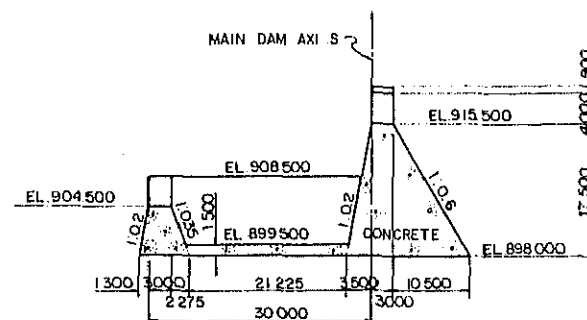
SECTION A-A 1:500



PLAN 1:500

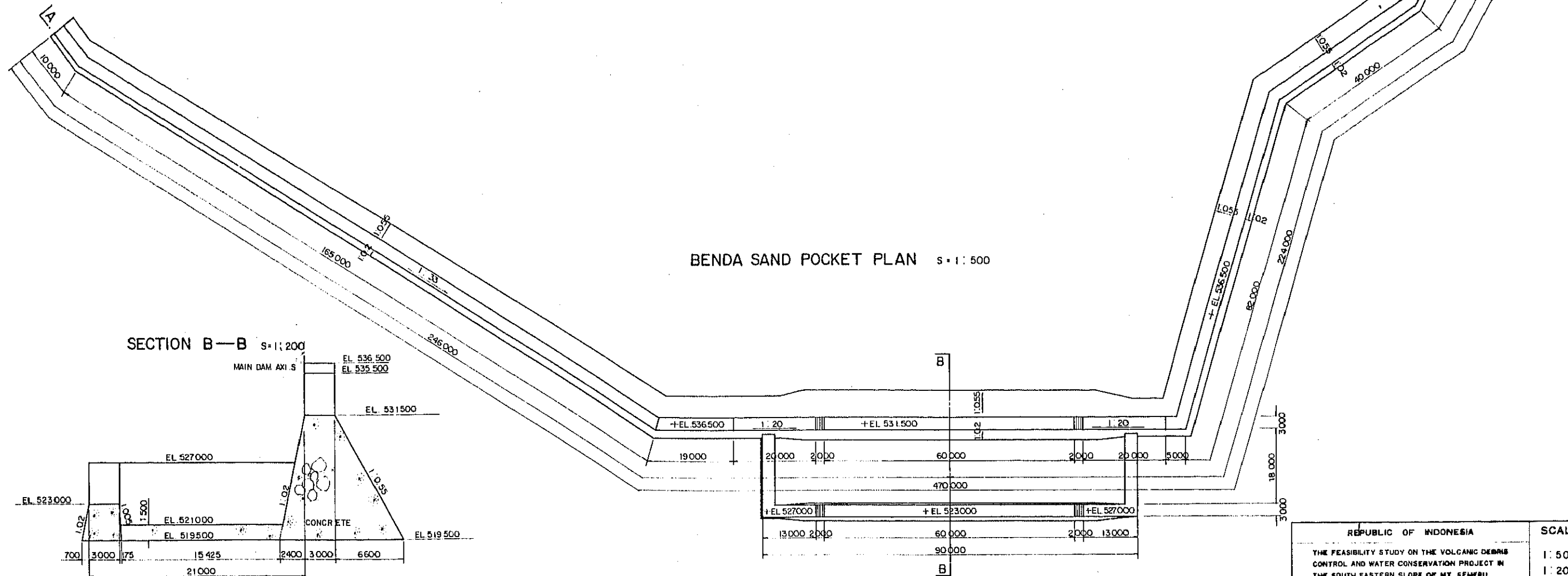


SECTION B-B 1:500

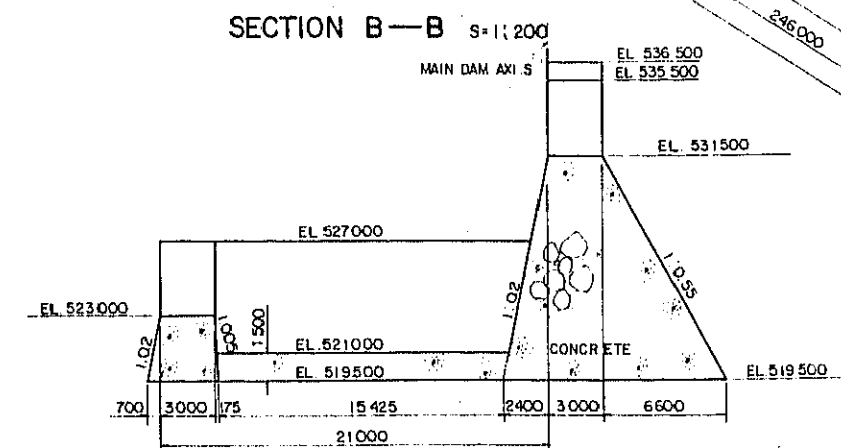



REPUBLIC OF INDONESIA			SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU			1:500
BS.SAT CHECK DAM-10			SMF
GENERAL DAM DESIGN			1
JICA			33
JAPAN INTERNATIONAL COOPERATION AGENCY			
DRAWN	CHECKED	APPROVED	
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	

SECTION A—A S = 1:500



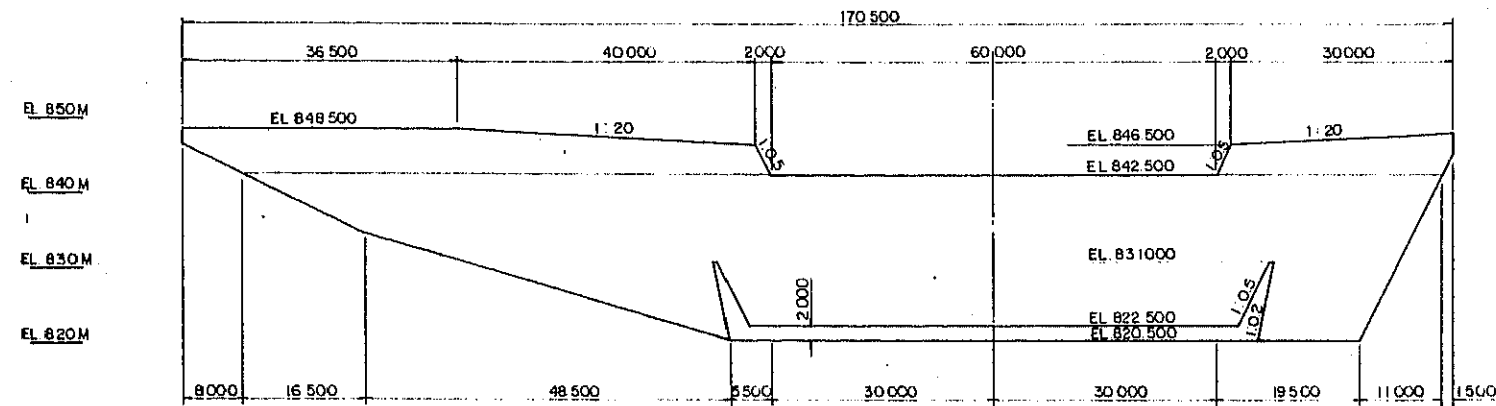
BENDA SAND POCKET PLAN S = 1 : 500



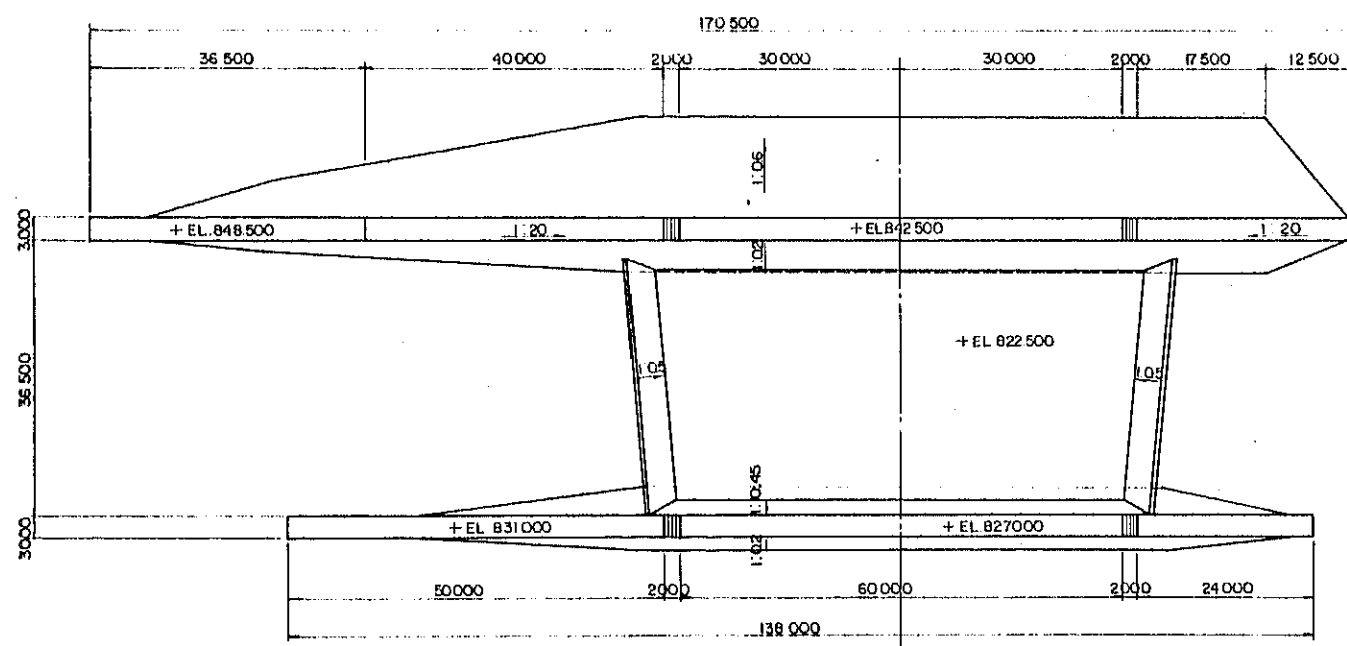
REPUBLIC OF INDONESIA		SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU		1: 500 1: 200
BENDA SAND POCKET GENERAL SAND POCKET DESIGN		SMF 1 34
 JAPAN INTERNATIONAL COOPERATION AGENCY		
DRAWN	CHECKED	APPROVED
<i>P.M.S.</i>	<i>Y. Hida</i>	

CURAH KOBOAN CHD-7

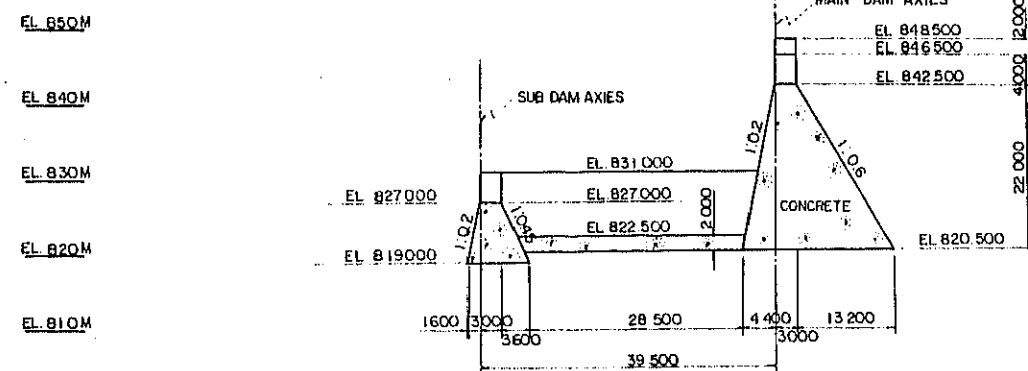
SECTION A-A S = 1:500



PLAN S = 1:500

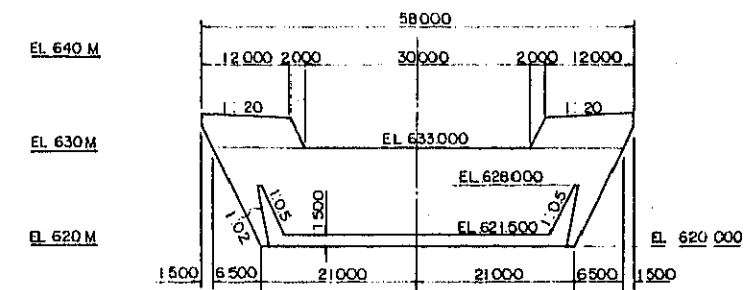


PROFILE S = 1:500

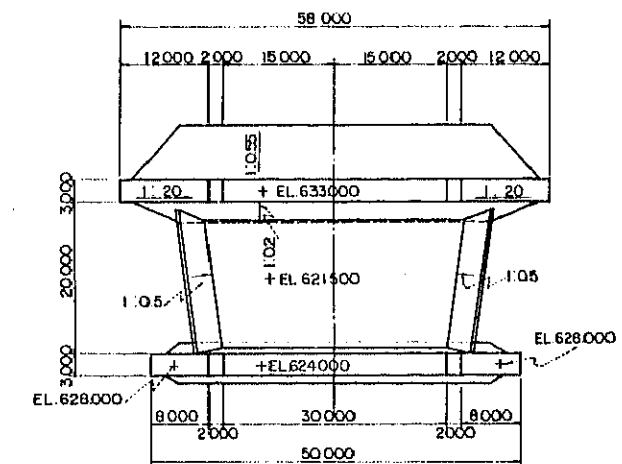


CURAH KOBOAN CHD-3

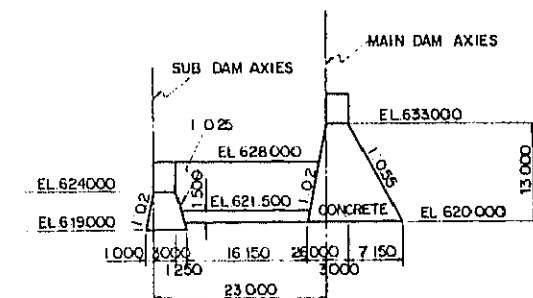
SECTION A-A S = 1:500



PLAN S = 1:500



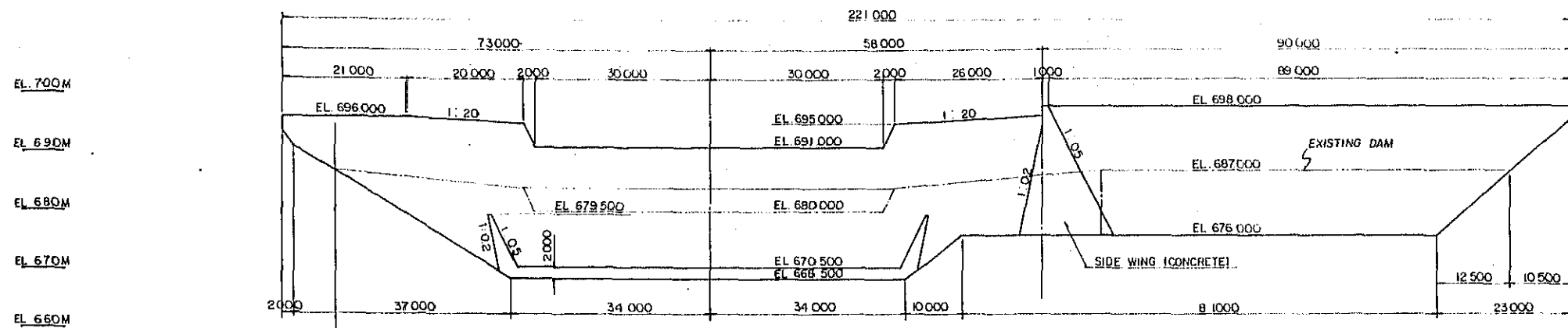
SECTION B-B S = 1:500



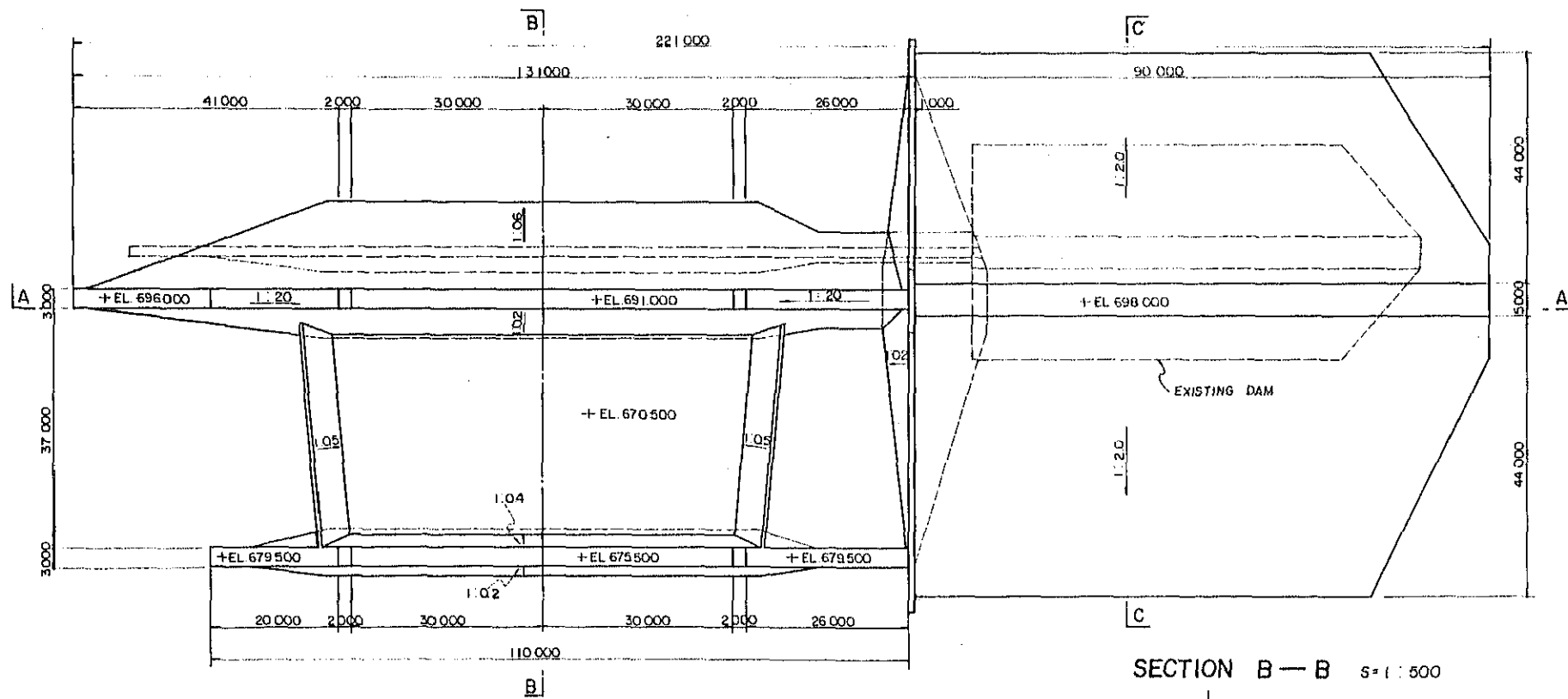
REPUBLIC OF INDONESIA			SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DERRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU			1:500
CURAH KOBOAN CHECK DAM-3			SMF
-7			1
GENERAL DAM DESIGN			35
JICA			
JAPAN INTERNATIONAL COOPERATION AGENCY			
DRAWN	CHECKED	APPROVED	
S. Mulya	Y. Mulya		

CURAH KOBOAN CHD-4

SECTION A — A S = 1 : 500

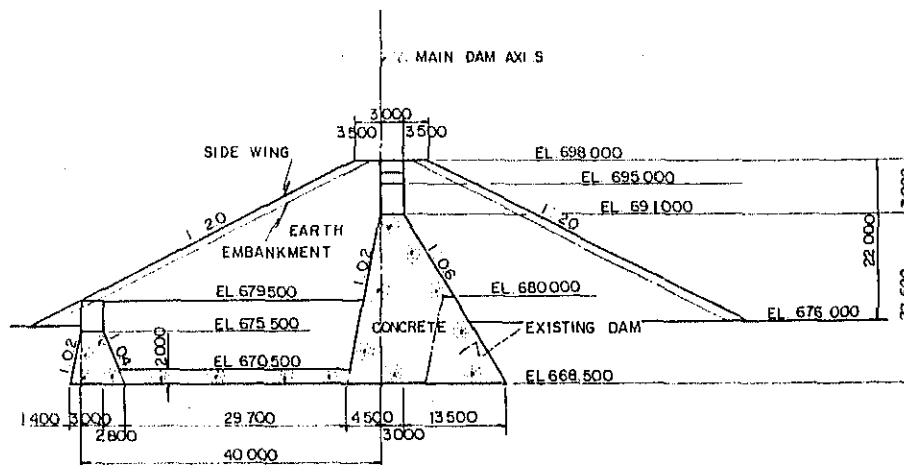
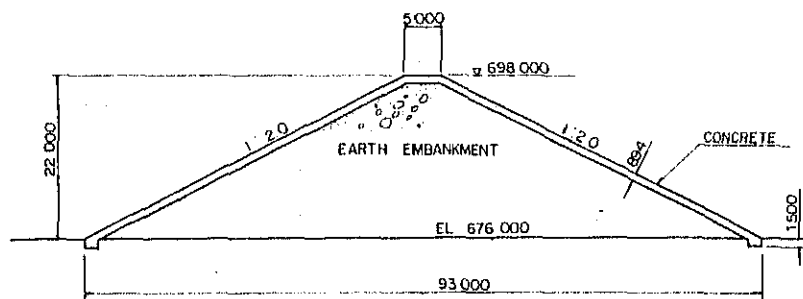


PLAN S = 1 : 500



SECTION B-B Scale: 500

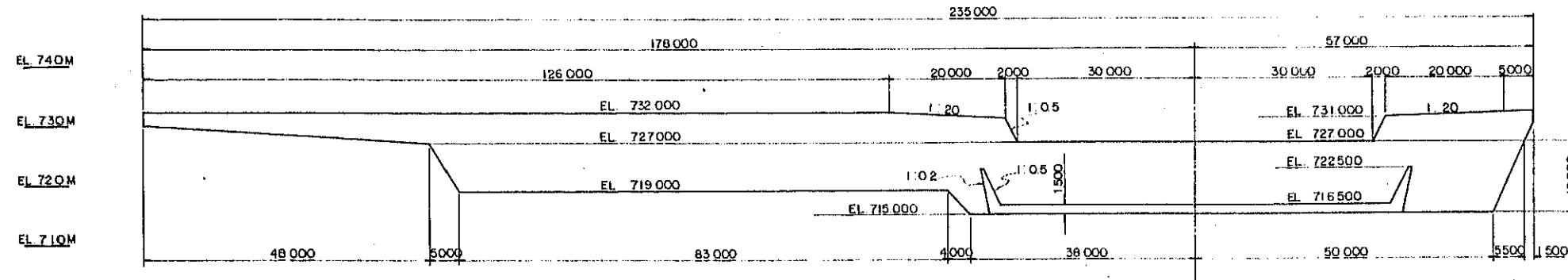
SECTION C-C S = 1:500



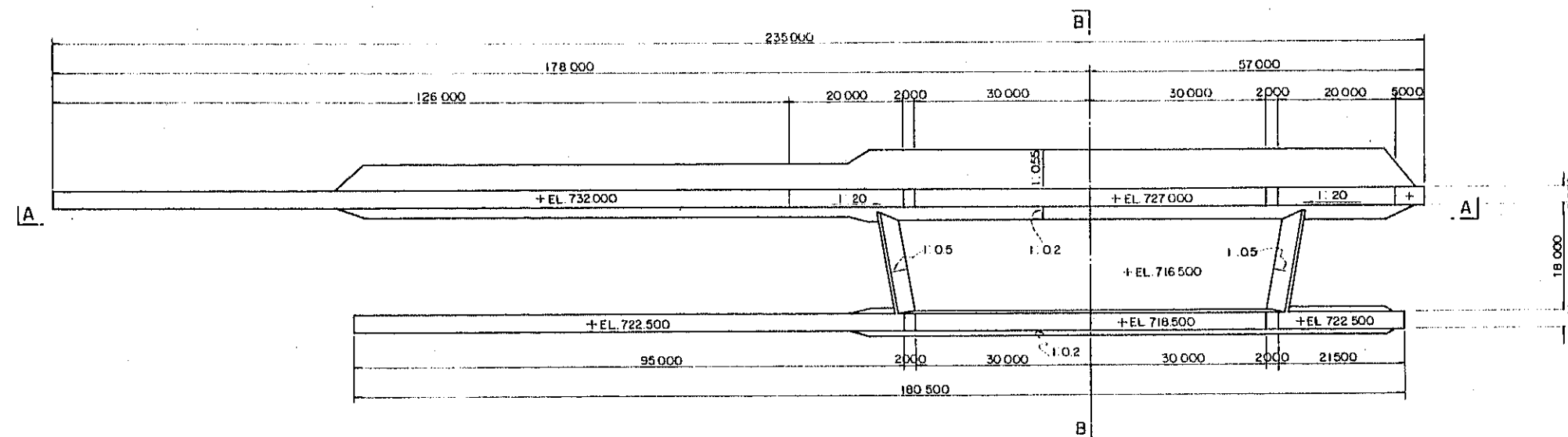
REPUBLIC OF INDONESIA	SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT SEMERU	1 : 500
CURAH KOBOAN CHECK DAM-4 GENERAL DAM DESIGN	SMF I 36
JICA JAPAN INTERNATIONAL COOPERATION AGENCY	
DRAWN <i>Y. Nakano</i>	CHECKED <i>Y. Nakano</i>
APPROVED	

CURAH KOBOAN CHD-5

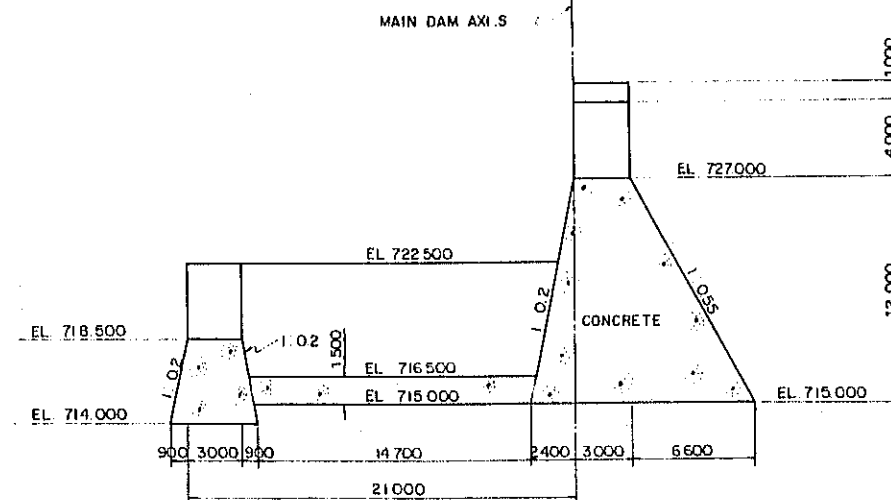
SECTION A - A S = 1:500



PLAN S = 1:500



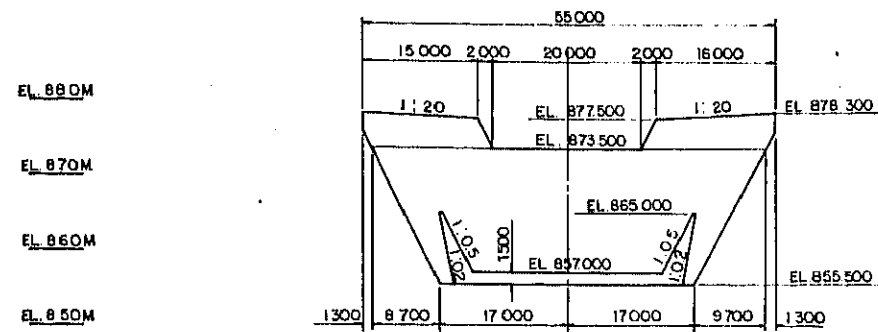
SECTION B - B S = 1:200



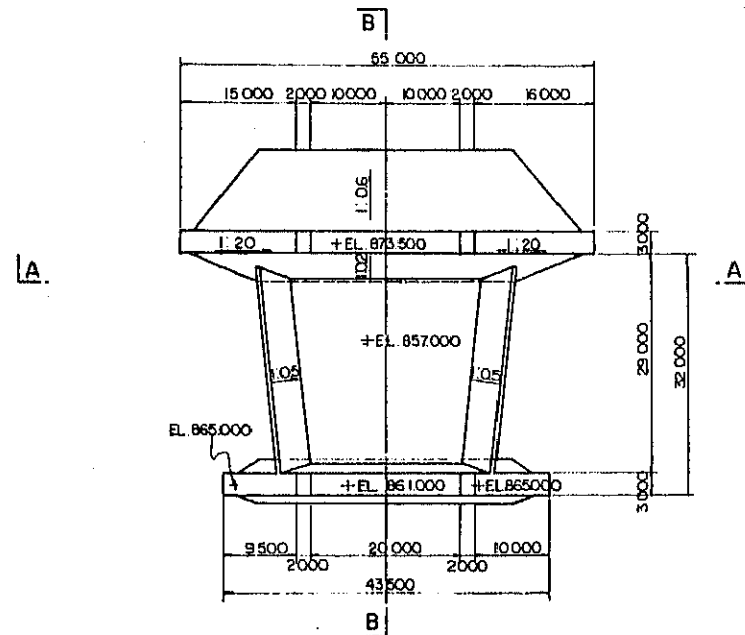
REPUBLIC OF INDONESIA			SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU			1:500 1:200
CURAH KOBOAN CHECK DAM-5 GENERAL DAM DESIGN			SMF 1 37
JICA JAPAN INTERNATIONAL COOPERATION AGENCY			
DRAWN	CHECKED	APPROVED	

CURAH LENG KONG CHD-2

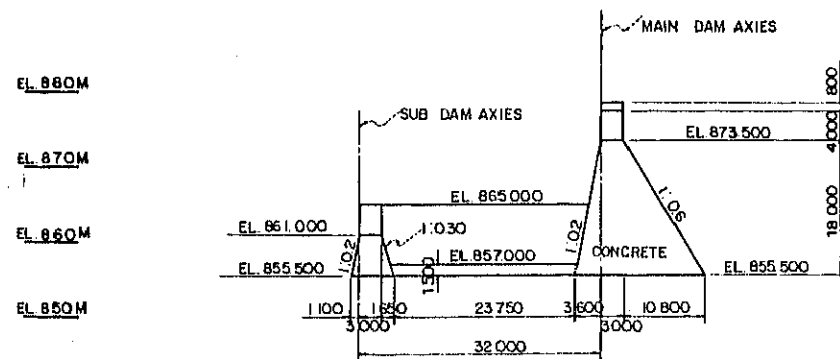
SECTION A—A S=1:500



PLAN S=1:500

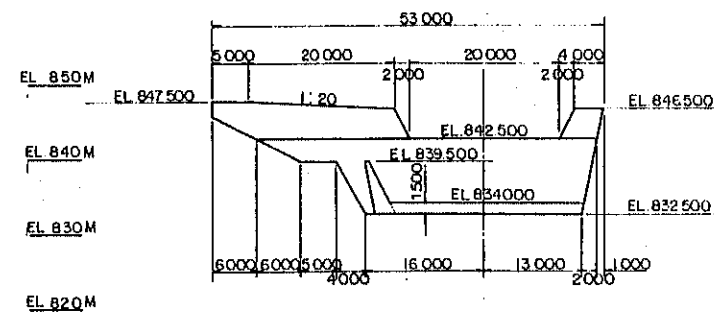


SECTION B—B S=1:500

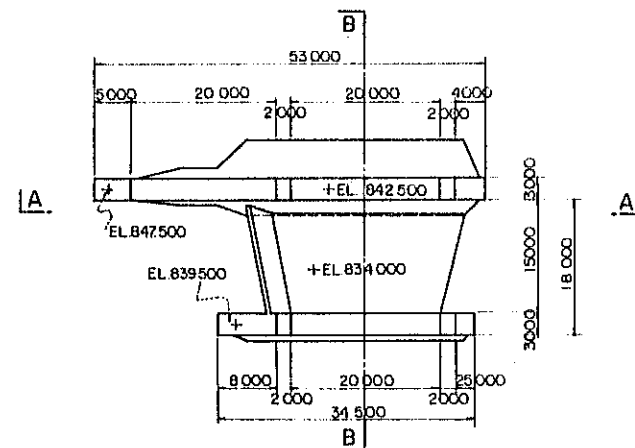


CURAH LENG KONG CHD-1

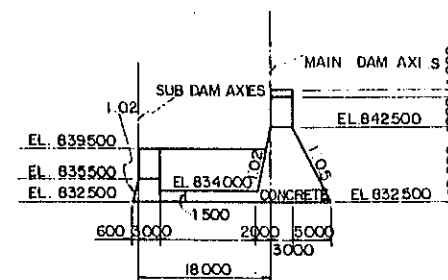
SECTION A—A S=1:500



PLAN S=1:500



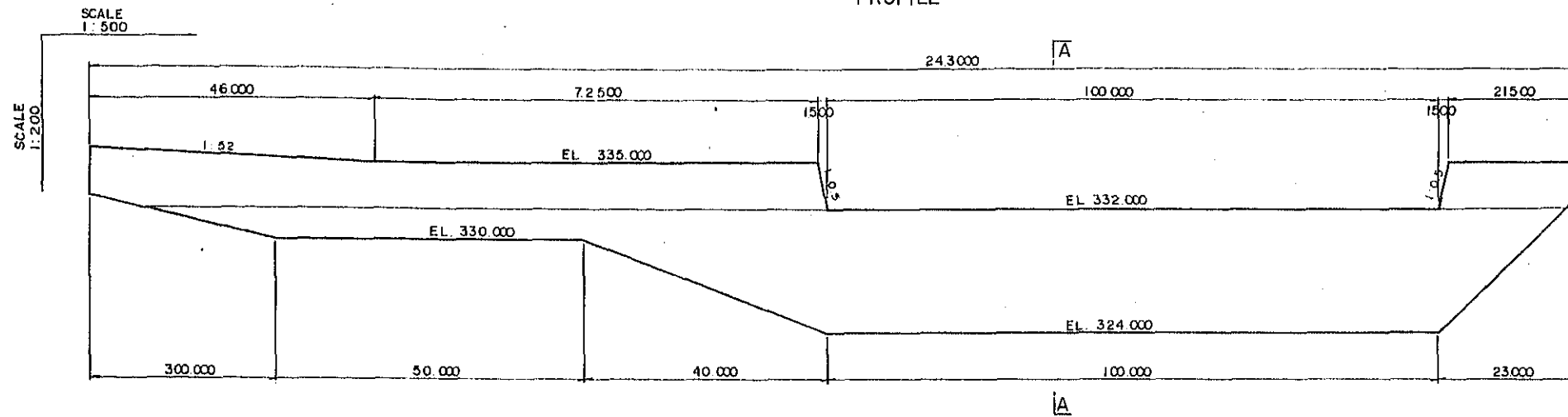
SECTION B—B S=1:500



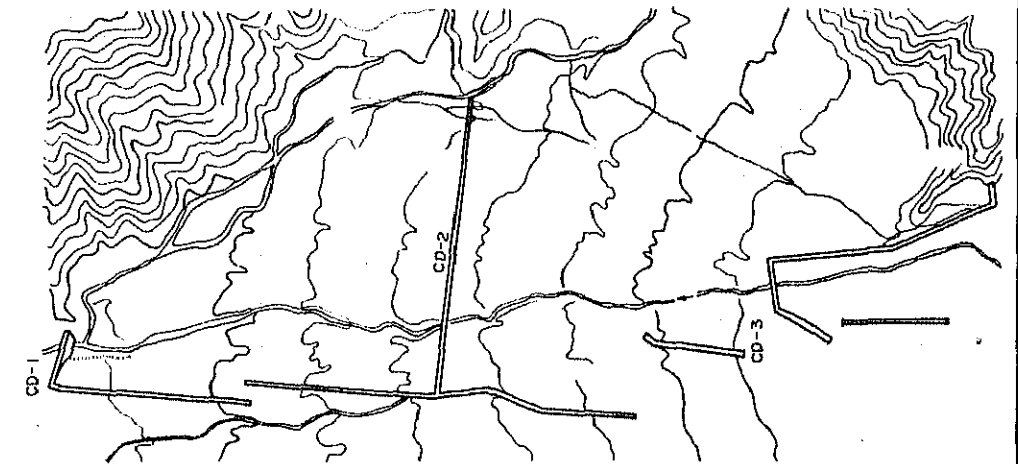
REPUBLIC OF INDONESIA			SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU			1:500
CURAH KOBOAN CHECK DAM-1 CURAH KOBOAN CHECK DAM-2 GENERAL DAM DESIGN			SMF 1 38
JAPAN INTERNATIONAL COOPERATION AGENCY			
DRAWN	CHECKED	APPROVED	
<i>R. S. S.</i>	<i>J. S. S.</i>	<i>J. S. S.</i>	

CONSOLIDATION DAM-1

PROFILE

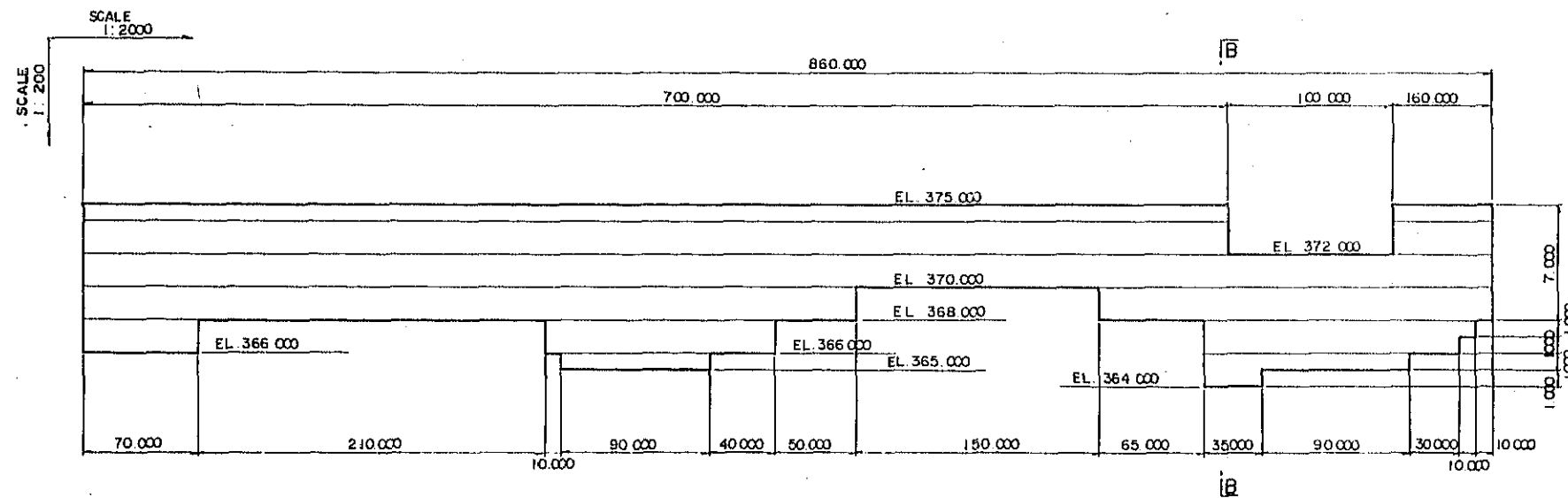


PLAN SCALE 1:10 000



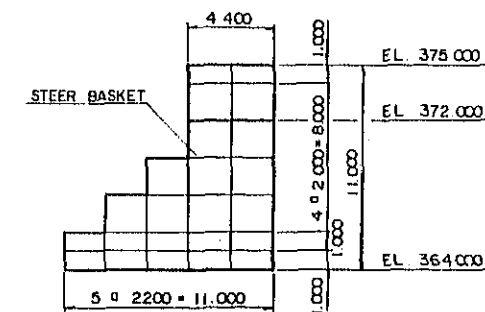
CONSOLIDATION DAM-2

PROFILE

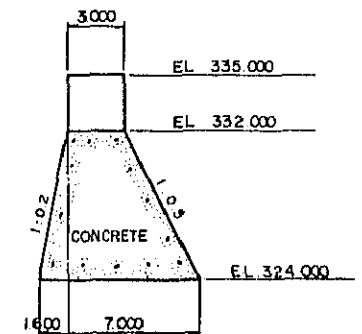


SECTION B-B

SCALE 1:200

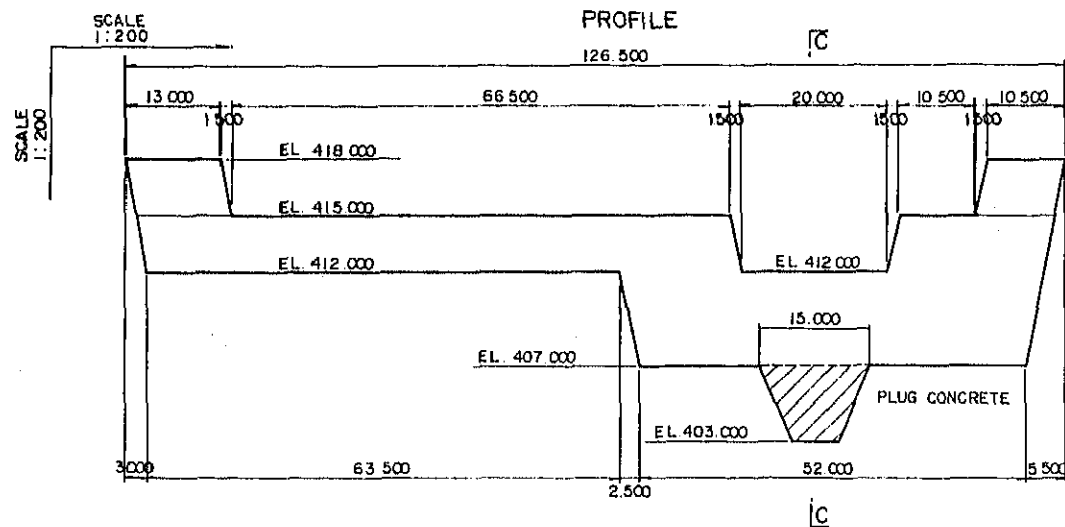


SECTION A-A SCALE 1:200



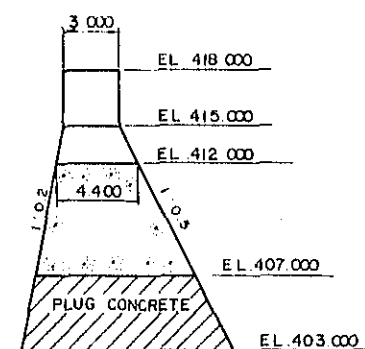
CONSOLIDATION DAM-3

PROFILE



SECTION C-C

SCALE 1:200

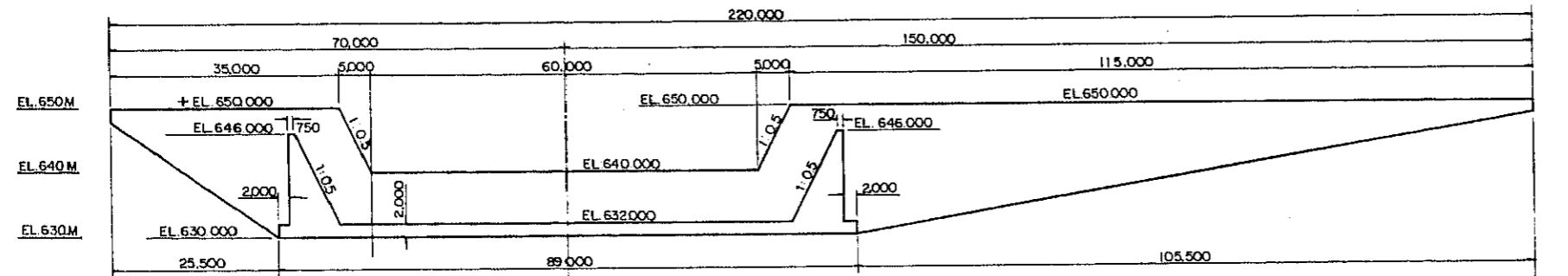


REPUBLIC OF INDONESIA			SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU			1:10 000
			1:2 000
			1:500
			1:200
K. LEPRAK SANDPOCKET GENERAL SANDPOCKET DESIGN			SMF
			1
			40
JICA			
JAPAN INTERNATIONAL COOPERATION AGENCY			
DRAWN	CHECKED	APPROVED	
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	

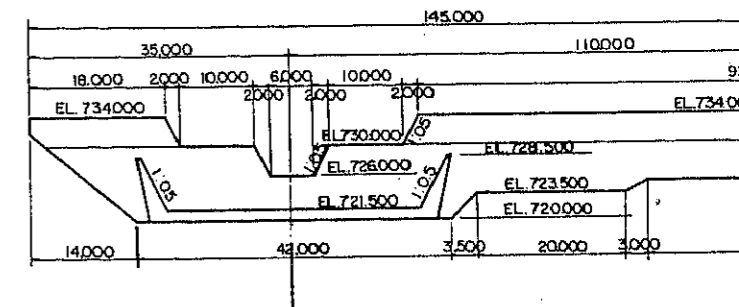
K.LENGKONG CHECK DAM NO.3 (PRONOJIWO DAM) SECTION A — A S = 1 : 500

K.LENGKONG CHECK DAM

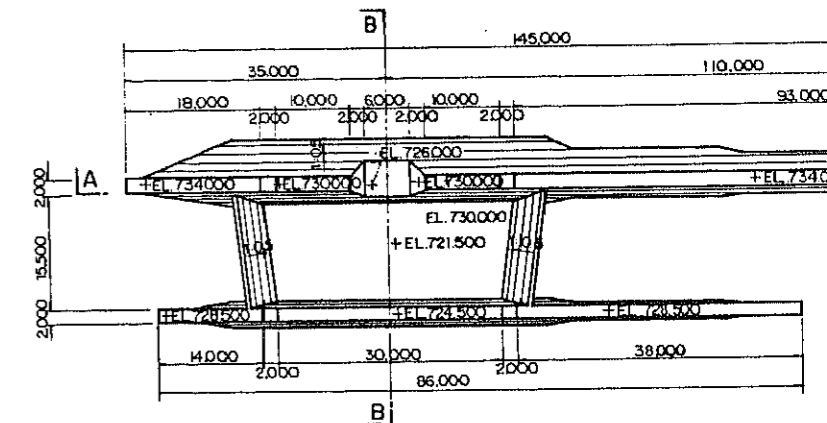
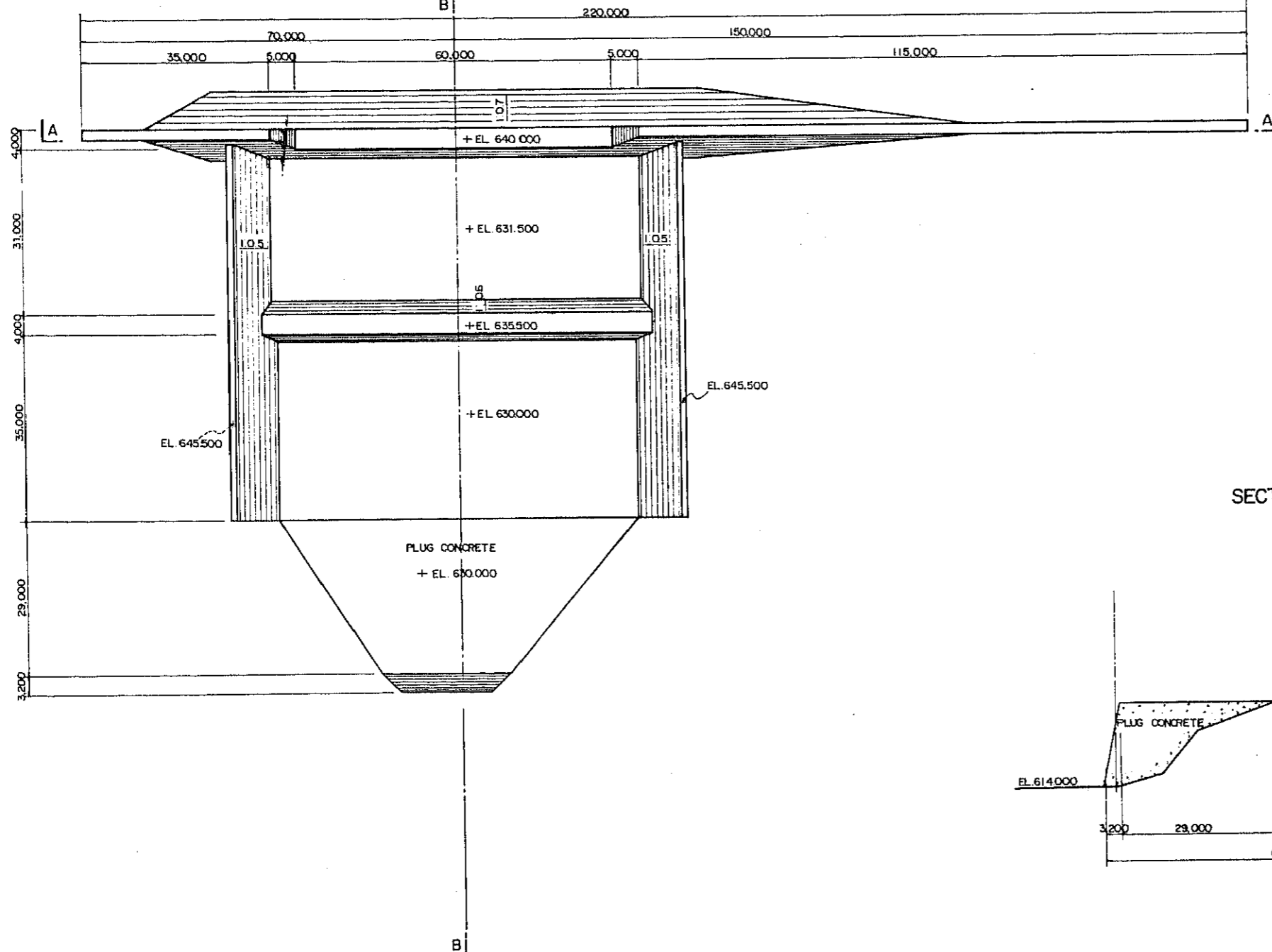
SECTION A — A



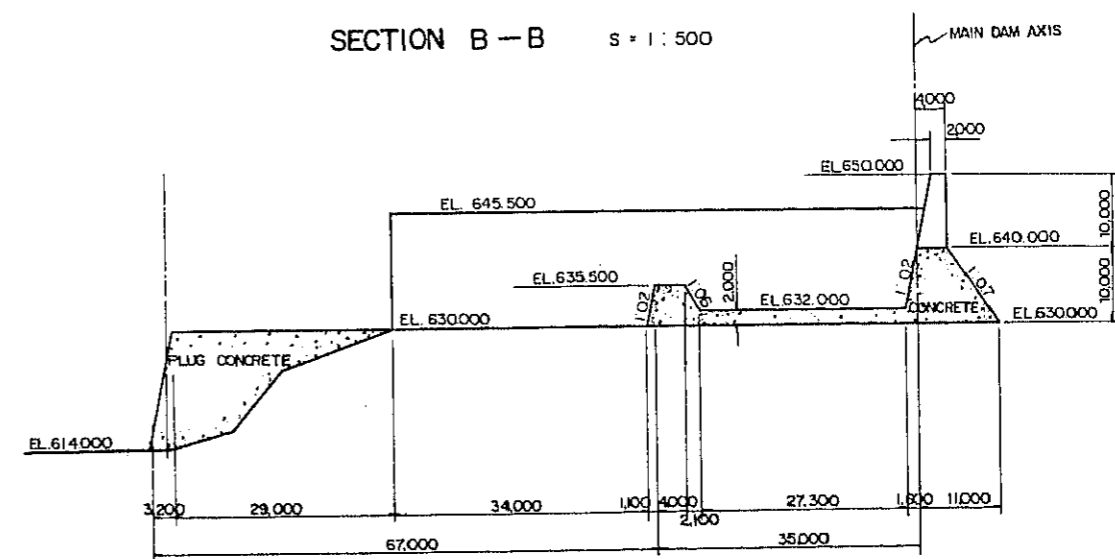
PLAN S = 1 : 500



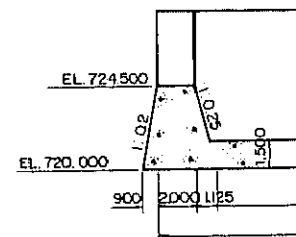
PLAN S = 1 : 500



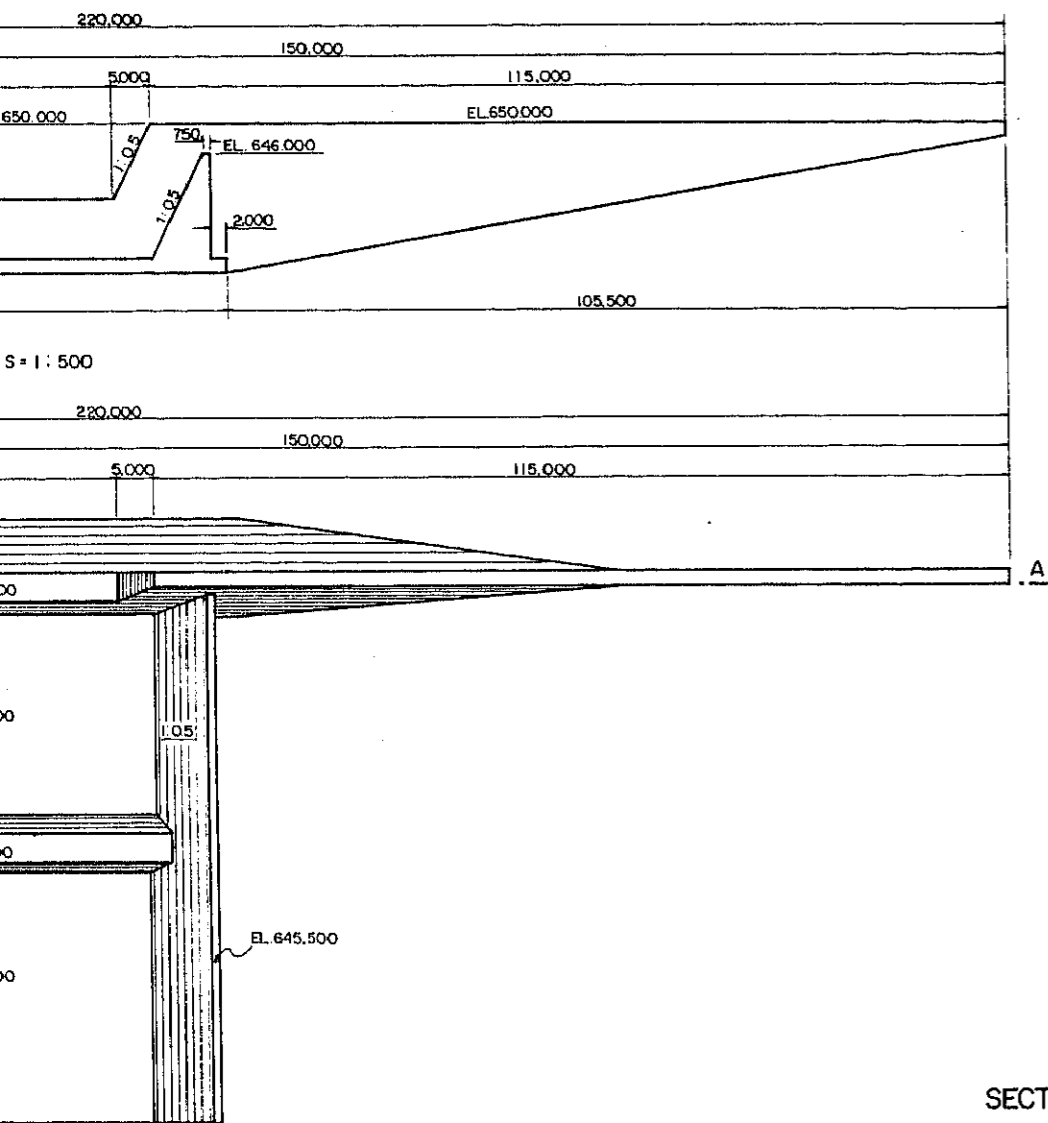
SECTION B — B S = 1 : 500



SECTION

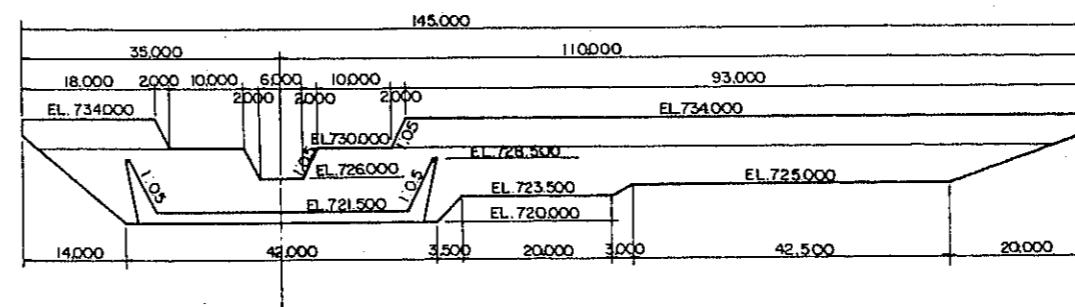


M NO.3 (PRONOJIWO DAM)
SECTION A-A S = 1:500

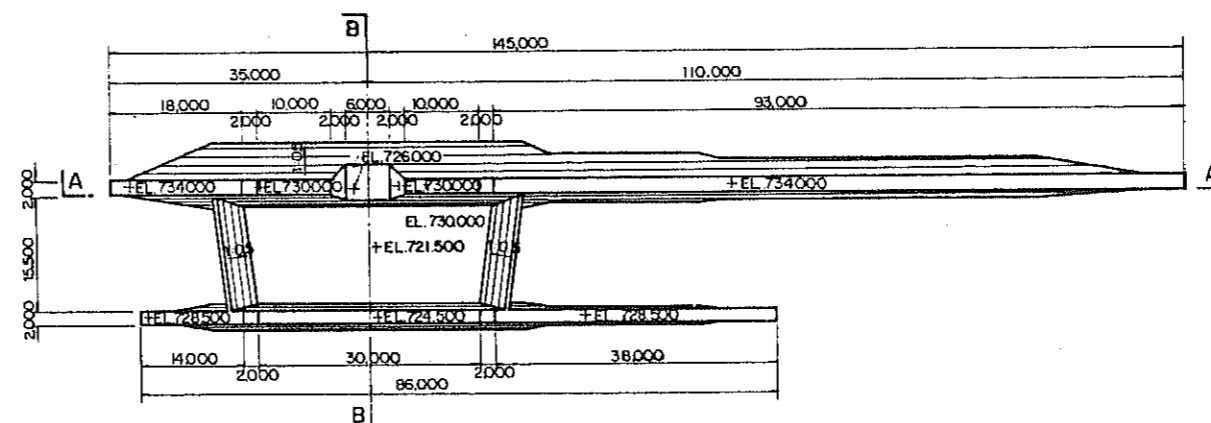


K.LENGKONG CHECK DAM NO.7

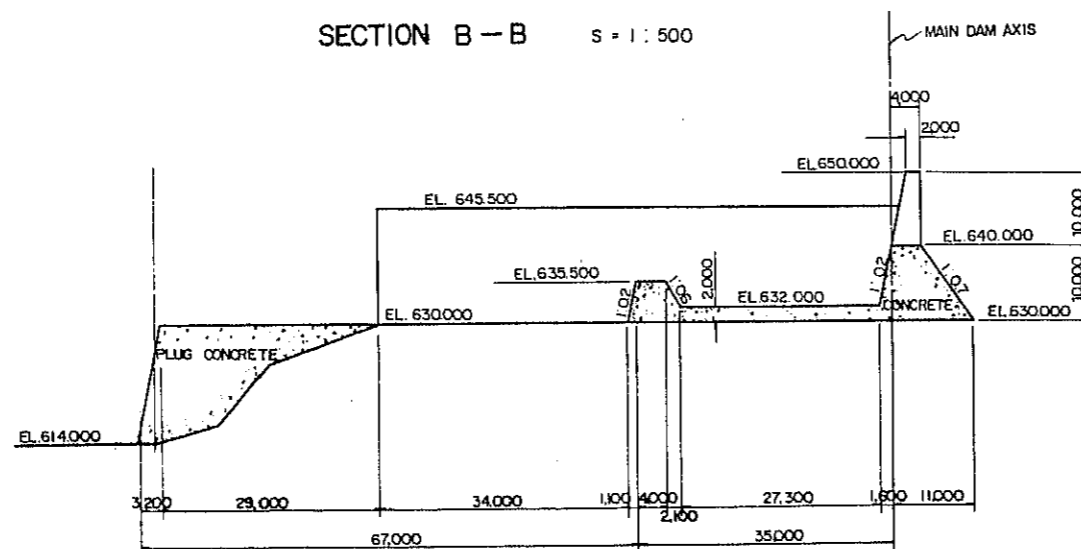
SECTION A-A S = 1:500



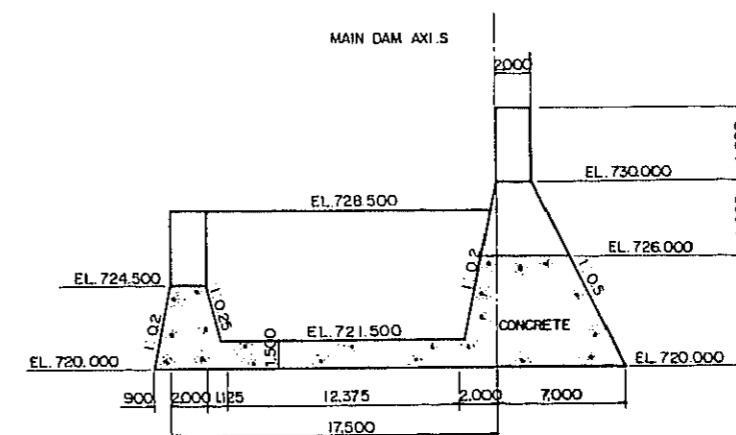
PLAN S = 1:500



SECTION B-B S = 1:500



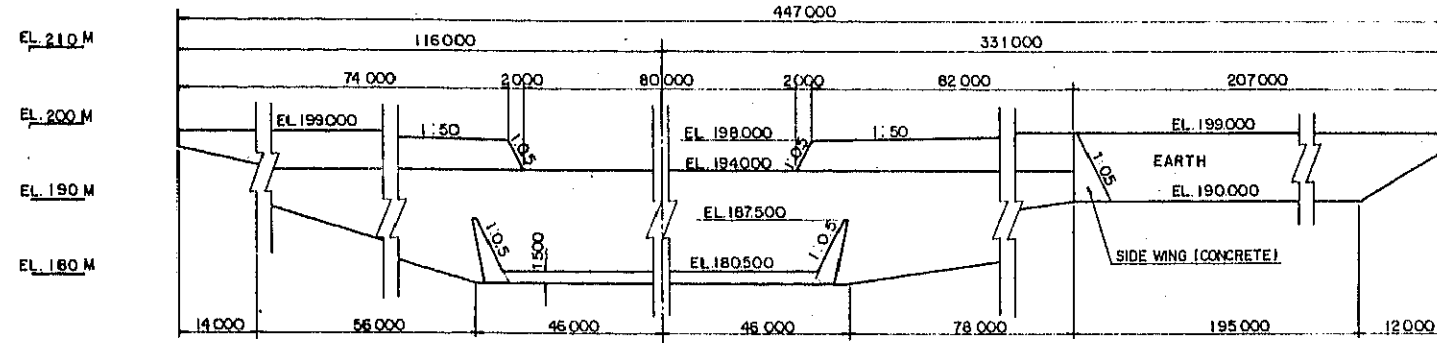
SECTION B-B S = 1:200



REPUBLIC OF INDONESIA			SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU			1:500
K. LENGKONG CHECK DAM-3			1:200
K. LENGKONG CHECK DAM-7			SMF
GENERAL DAM DESIGN			41
JICA			
JAPAN INTERNATIONAL COOPERATION AGENCY			
DRAWN	CHECKED	APPROVED	
R. Mulya	R. Mulya	R. Mulya	

K.GLIDIK CHECK DAM-2

SECTION A-A S=1:500

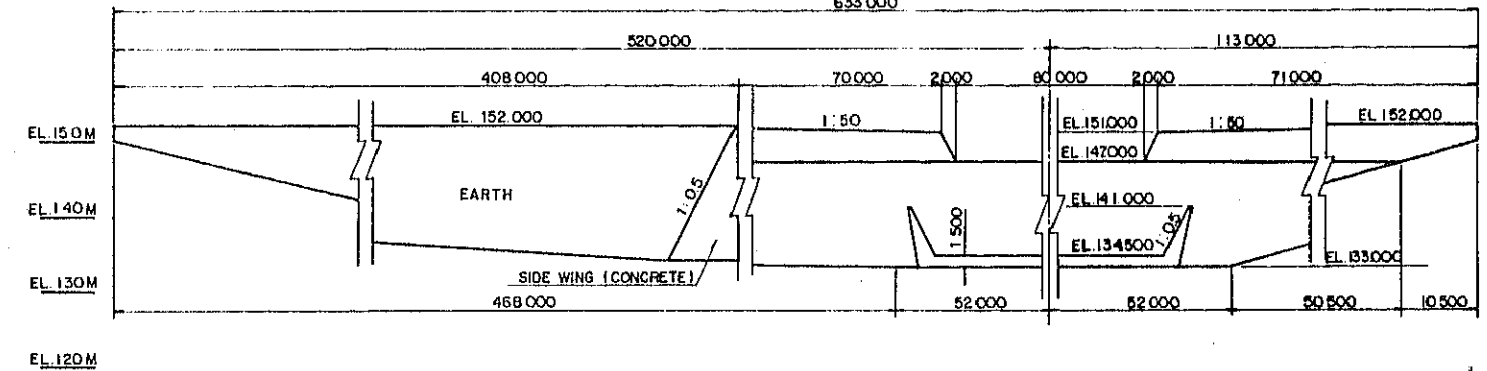


PLAN

B

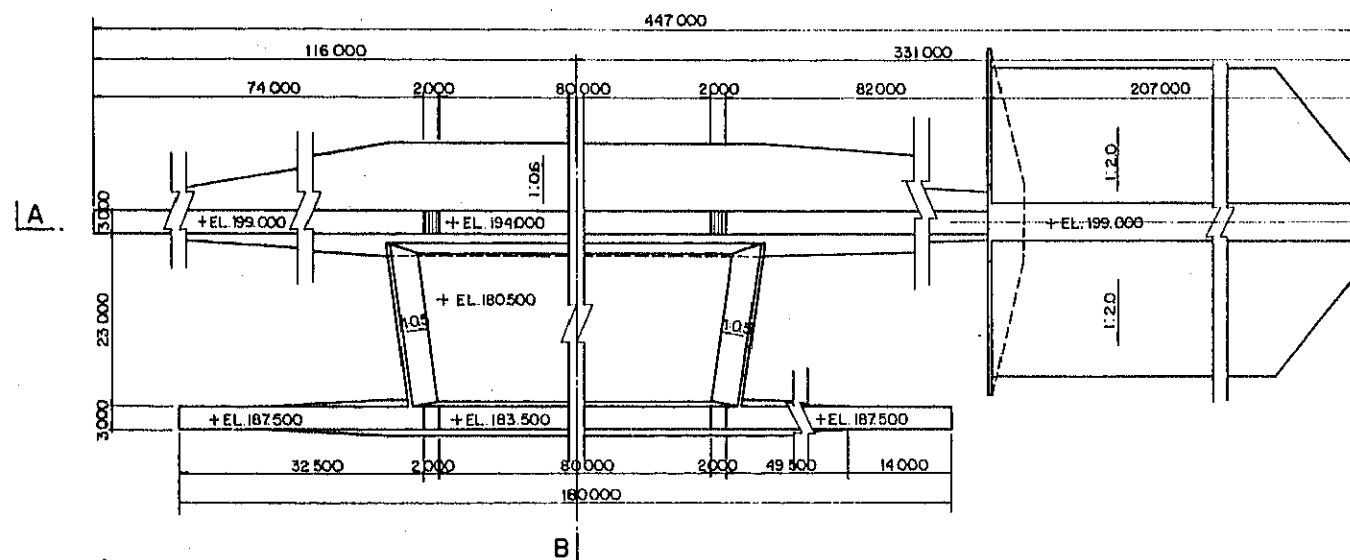
K.GLIDIK CHECK DAM-1

SECTION C-C S=1:500



PLAN

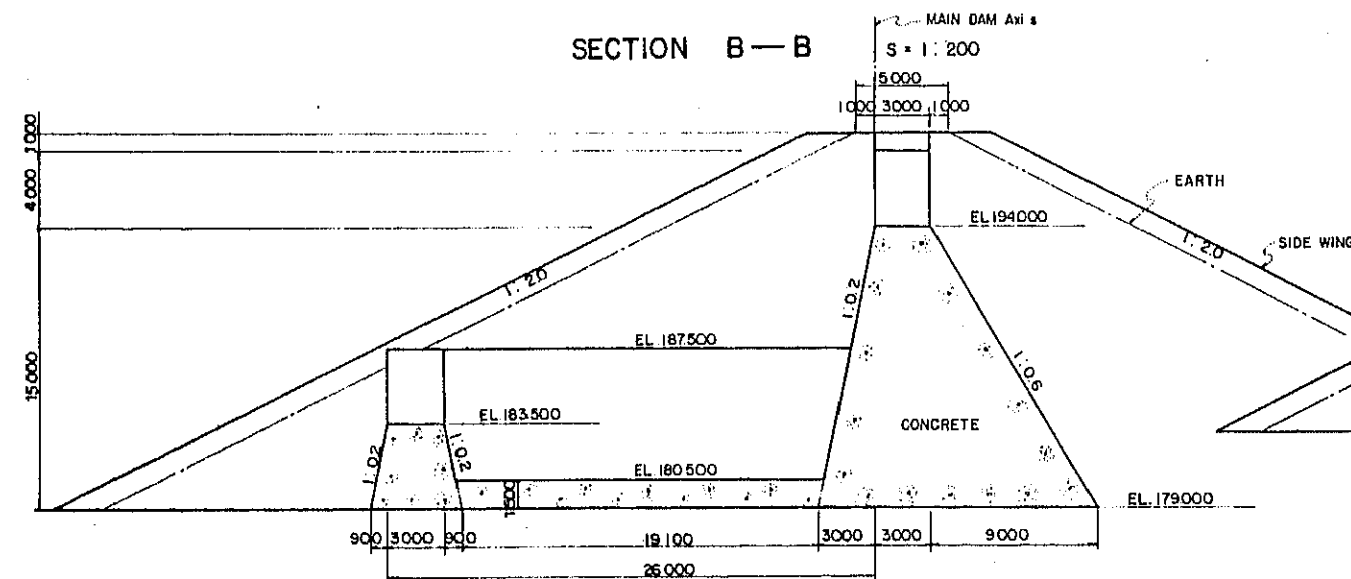
D



SECTION B-B

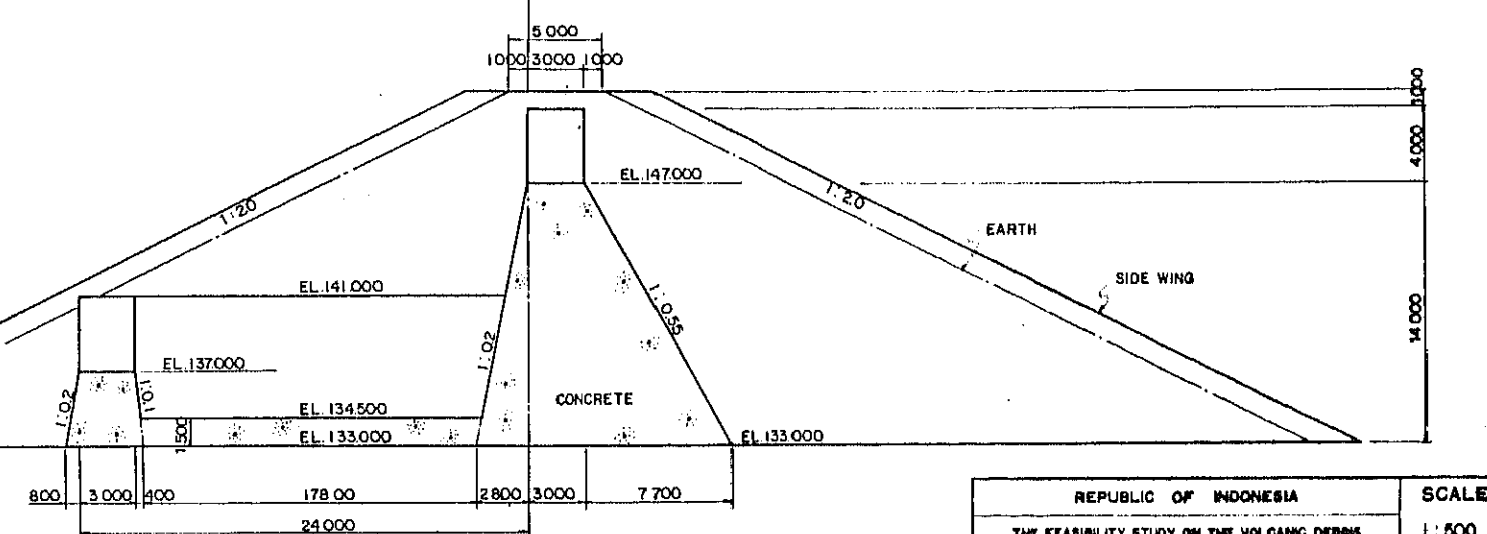
MAIN DAM Axis

S = 1:200



MAIN DAM Axis

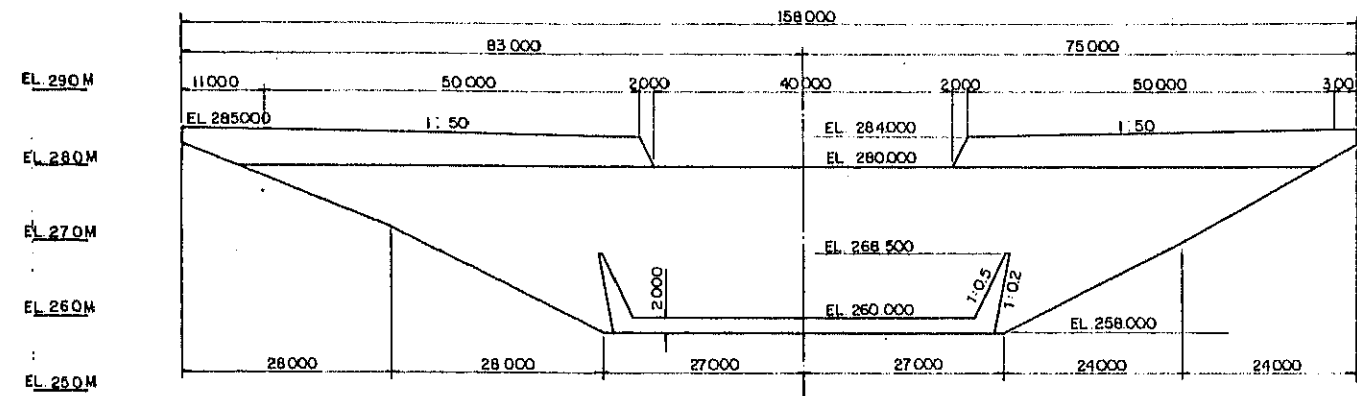
SECTION D-D S=1:200



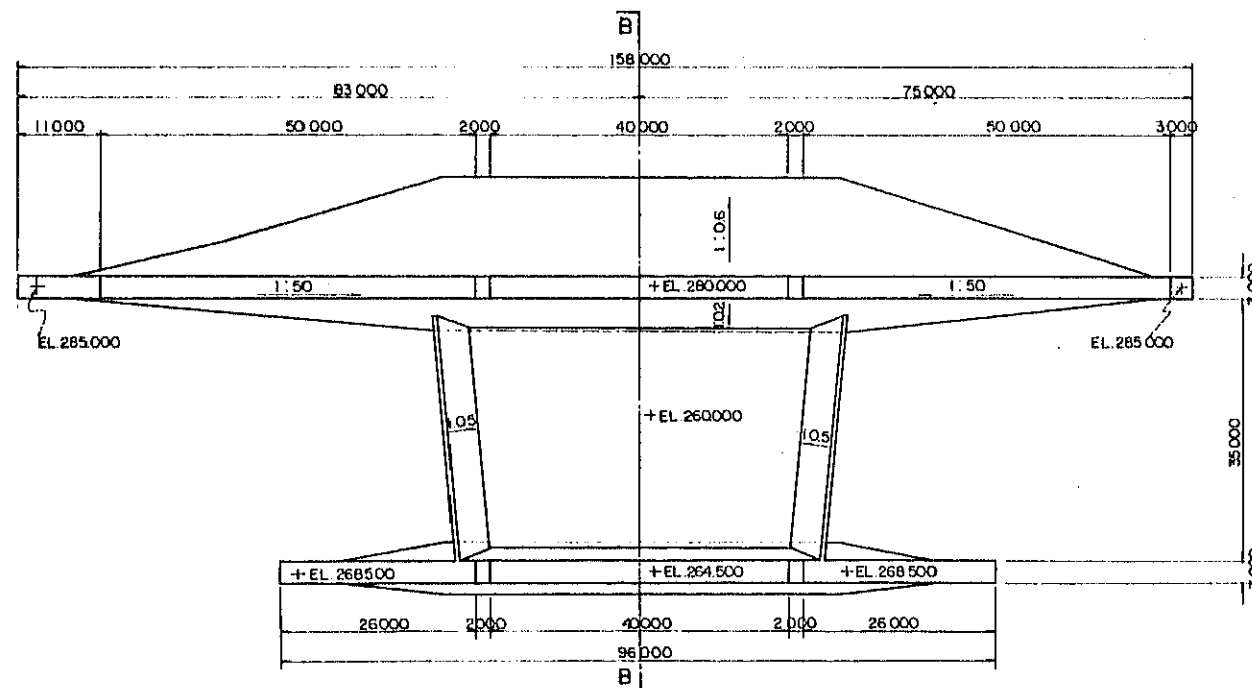
REPUBLIC OF INDONESIA			SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU			1:500
			1:200
K.GLIDIK CHECK DAM-1			SMF
-2			1
K.GENERAL DAM DESIGN			42
JAPAN INTERNATIONAL COOPERATION AGENCY			
DRAWN	CHECKED	APPROVED	

K. LENGKONG CHD-2

SECTION A-A S = 1:500

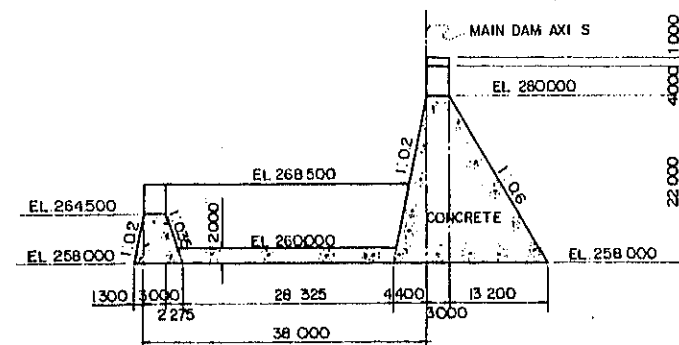


PLAN S = 1:500



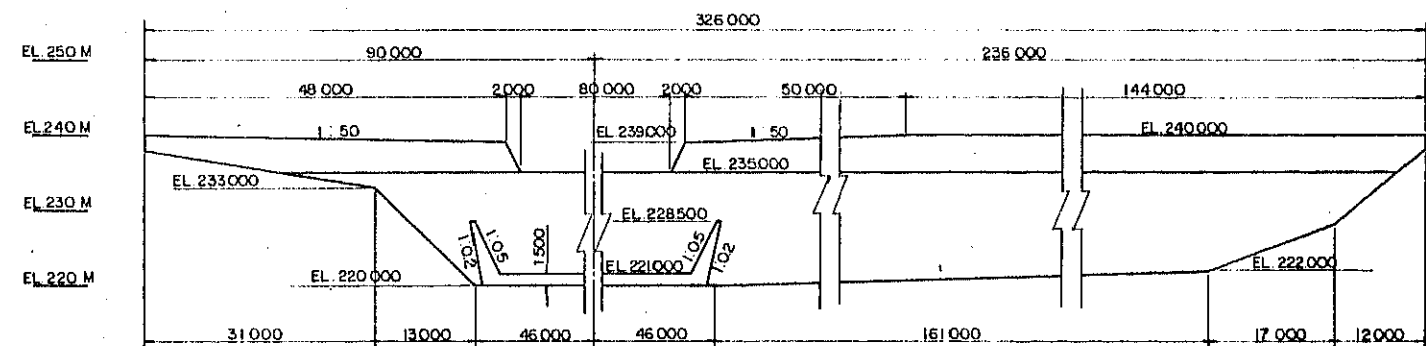
SECTION B-B S = 1:500

EL 280M
EL 270M
EL 260M

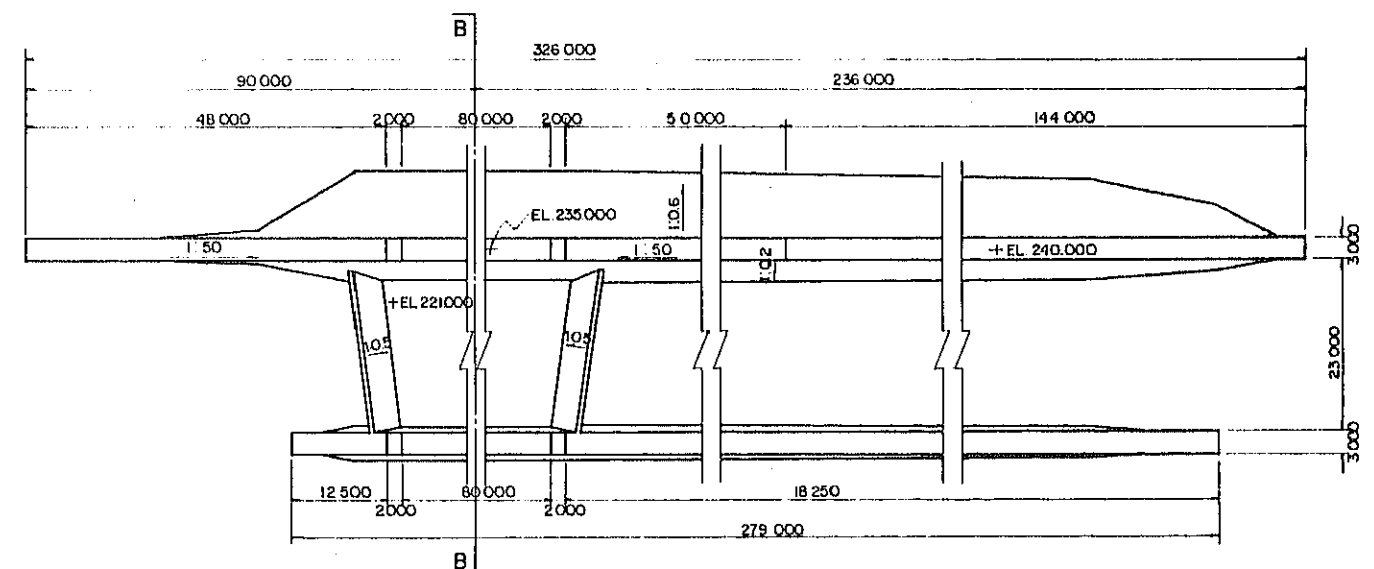


K. LENGKONG CHD-1

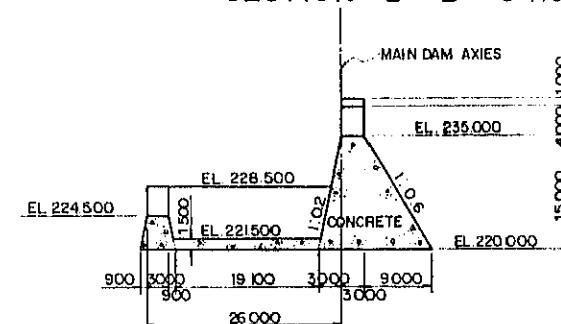
SECTION A-A S = 1:500



PLAN S = 1:500



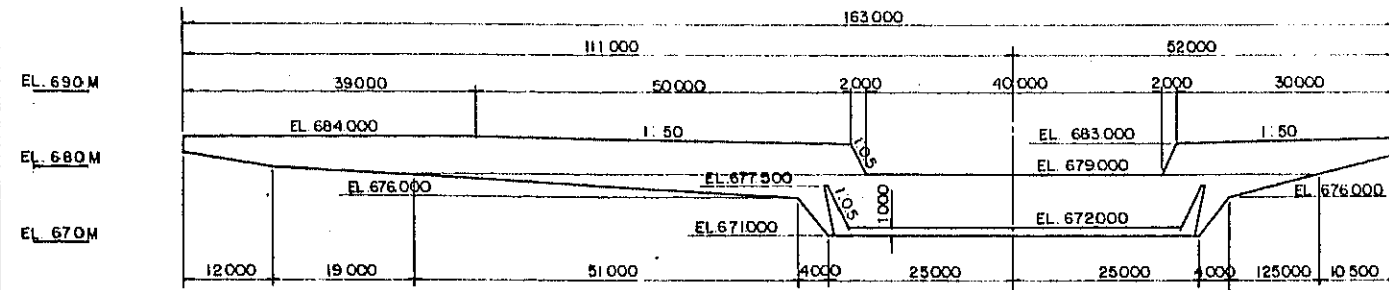
SECTION B-B S = 1:500



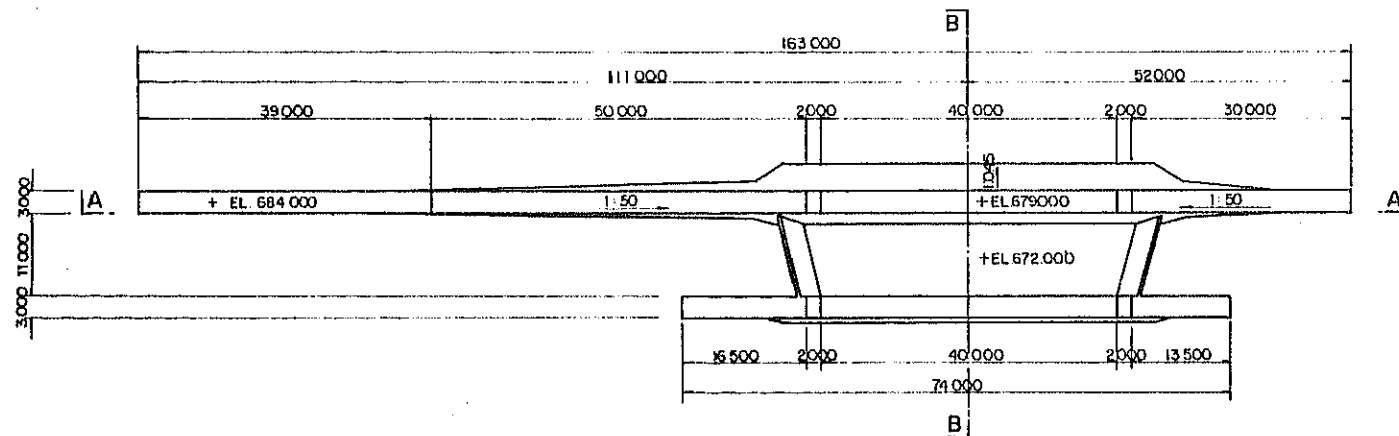
REPUBLIC OF INDONESIA			SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU			1:500
K. LENGKONG CHECK DAM - 1			SMF
- 2			1
GENERAL DAM DESIGN			43
JAPAN INTERNATIONAL COOPERATION AGENCY			
DRAWN	CHECKED	APPROVED	
S. M. S.	S. M. S.	S. M. S.	

K. LENGKONG CHD-5

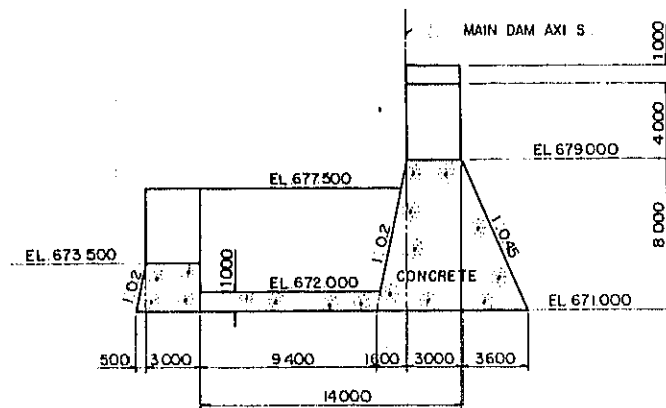
SECTION A-A S=1:500



PLAN S=1:500

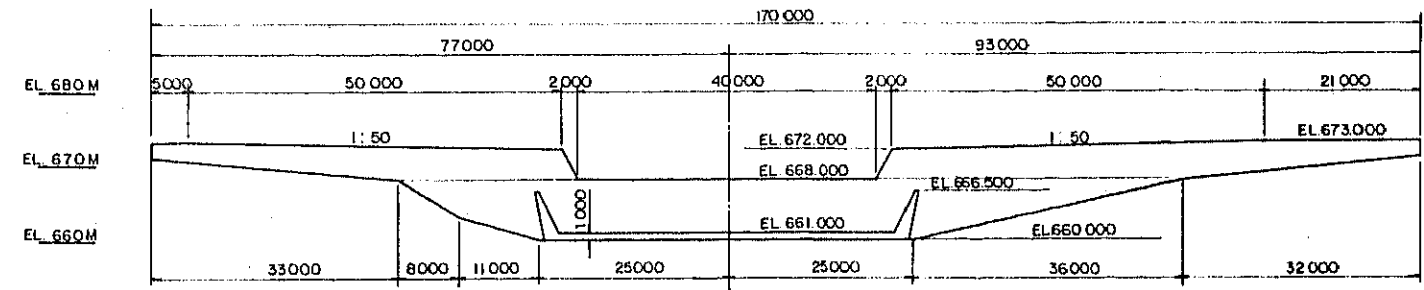


SECTION B-B S=1:200

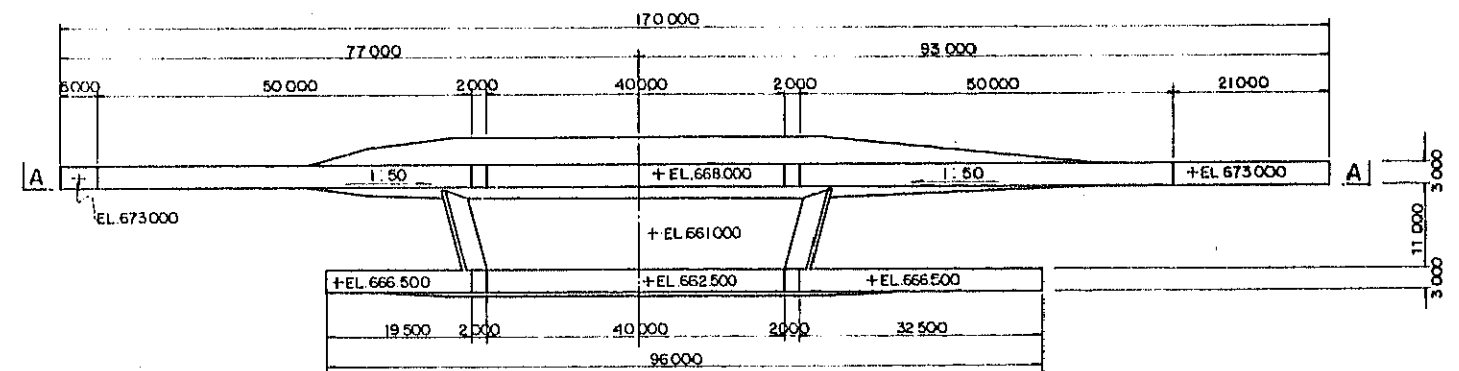


K. LENGKONG CHD-4

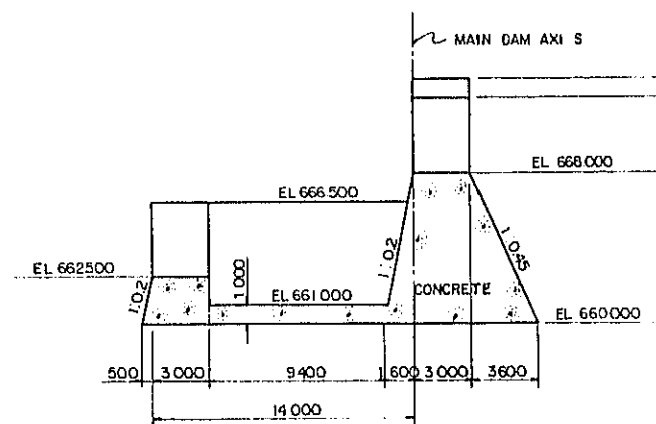
SECTION A-A S=1:500



PLAN S=1:500

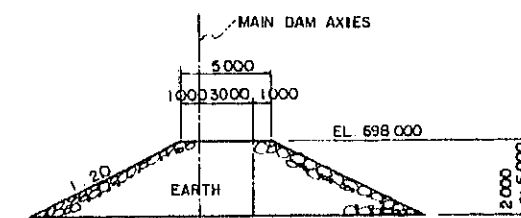
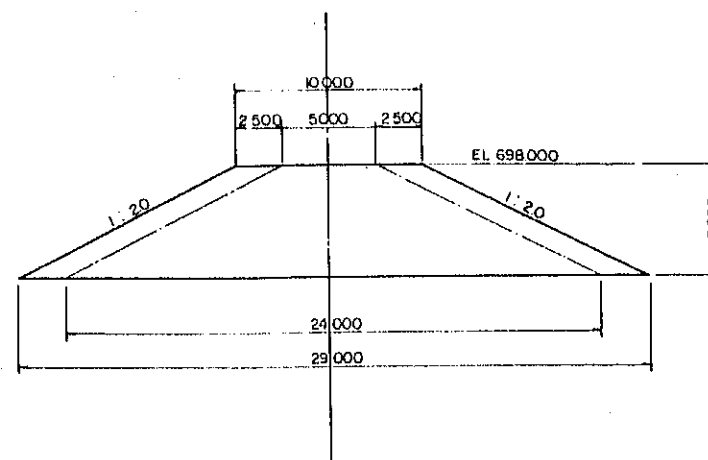
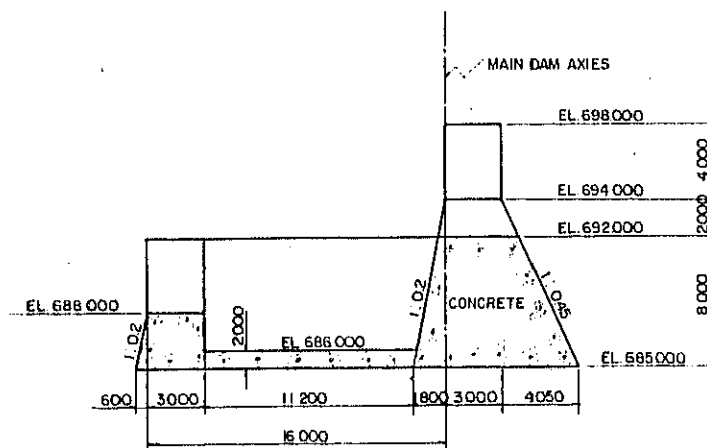
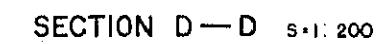
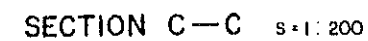



SECTION B-B S=1:200



REPUBLIC OF INDONESIA			SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS			1:500
CONTROL AND WATER CONSERVATION PROJECT IN			1:200
THE SOUTH EASTERN SLOPE OF MT. SEMERU			
K. LENGKONG CHECK DAM-4			SMF
-5			1
GENERAL DAM DESIGN			44
JAPAN INTERNATIONAL COOPERATION AGENCY			
DRAWN	CHECKED	APPROVED	
S. M. S.	J. R. S.		

SECTION A-A S = 1:500



REPUBLIC OF INDONESIA THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU		SCALE 1 : 500 1 : 200
K. LENGKONG CHECK DAM - 6 GENERAL DAM DESIGN		SMF 45
		
JAPAN INTERNATIONAL COOPERATION AGENCY		
DRAWN G. M.	CHECKED Y. P.	APPROVED

JICA