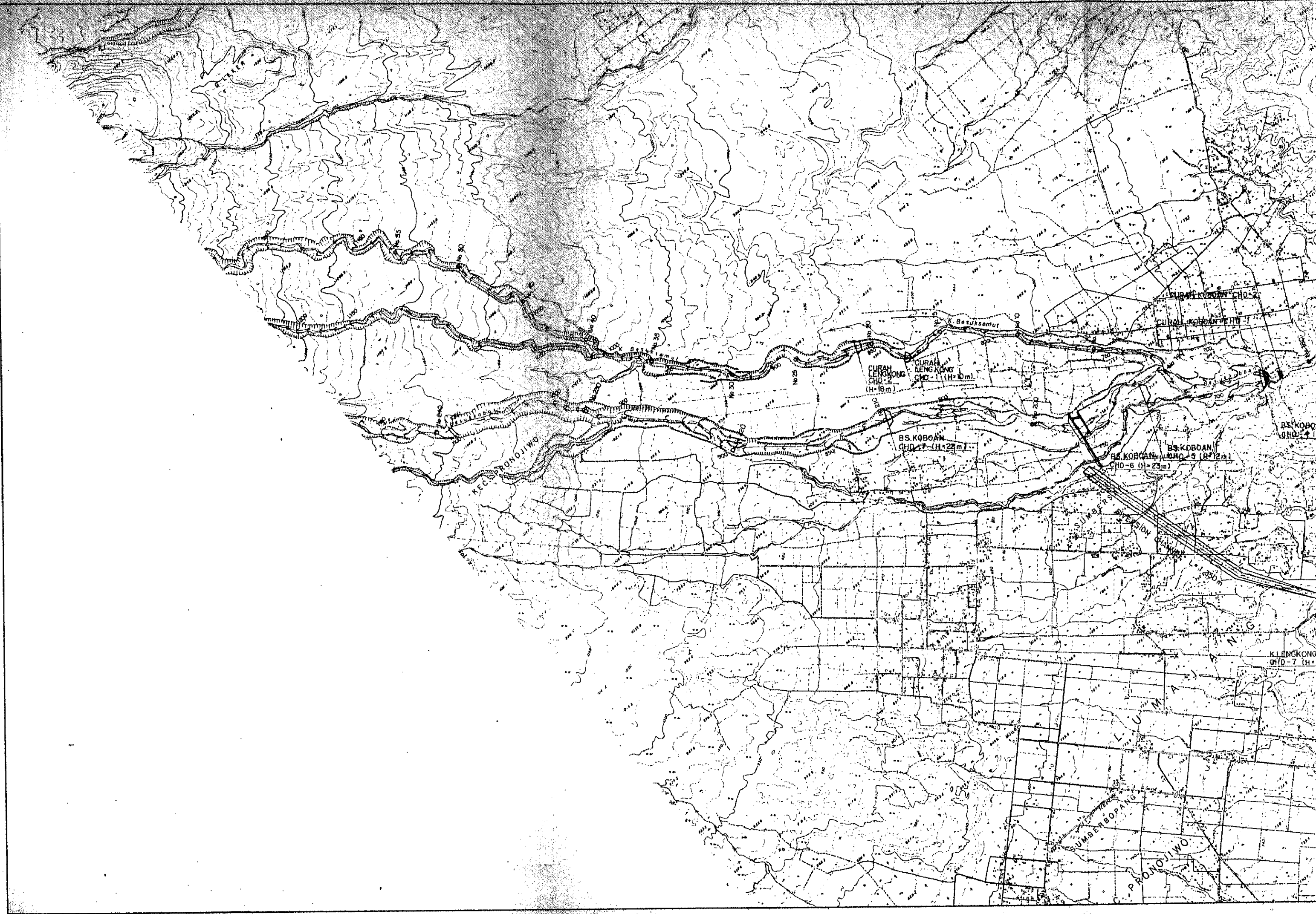
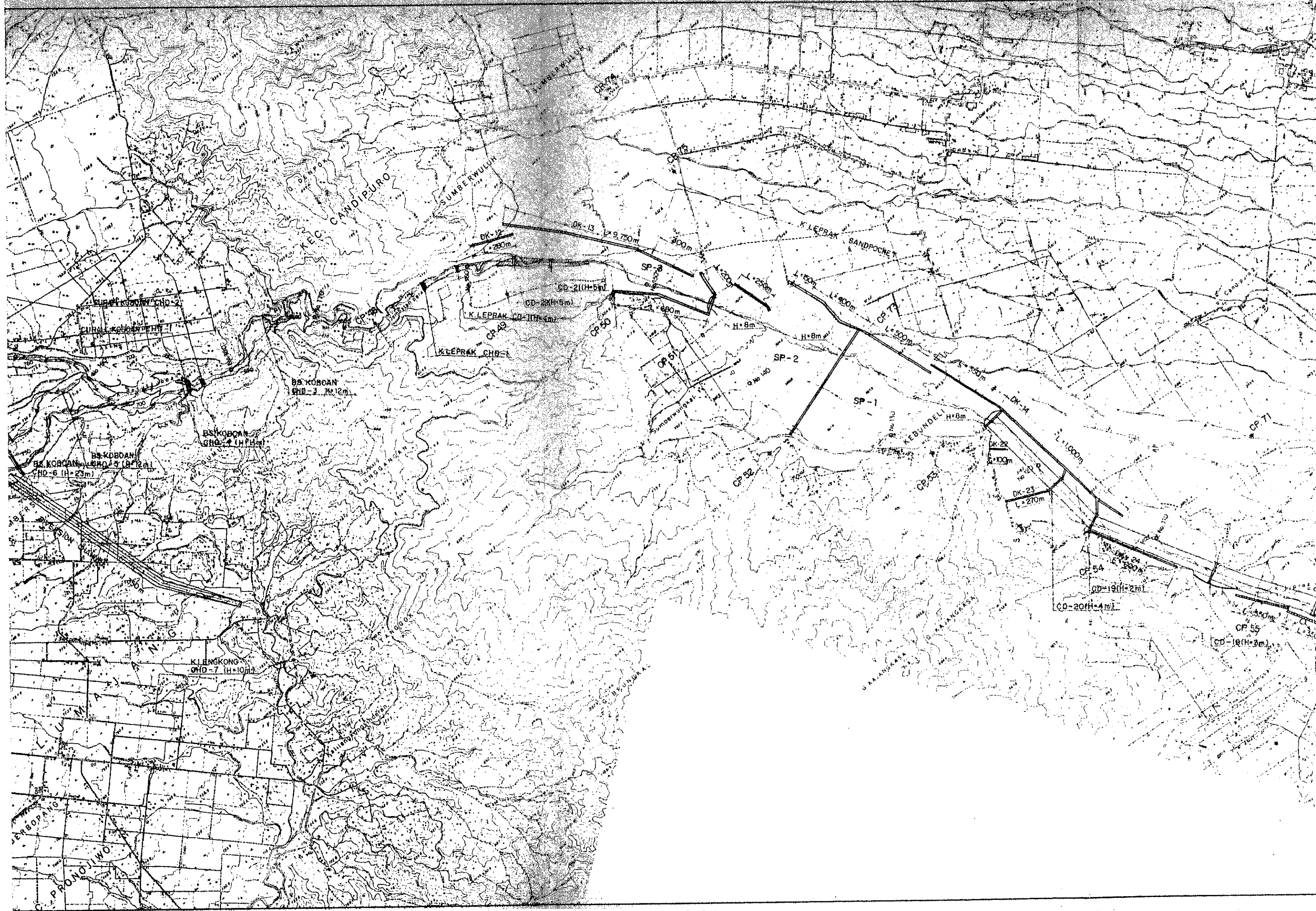


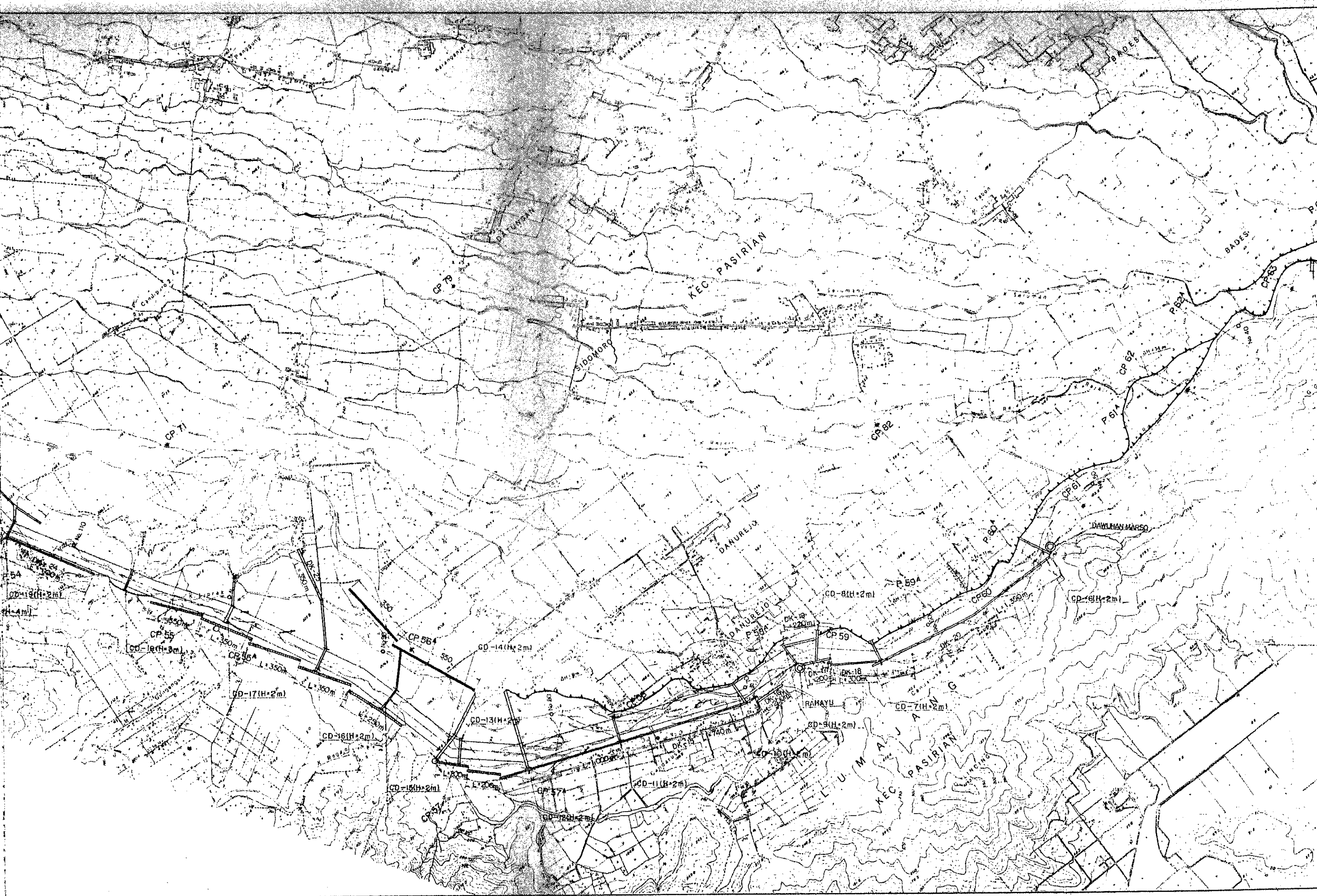
LEGEND

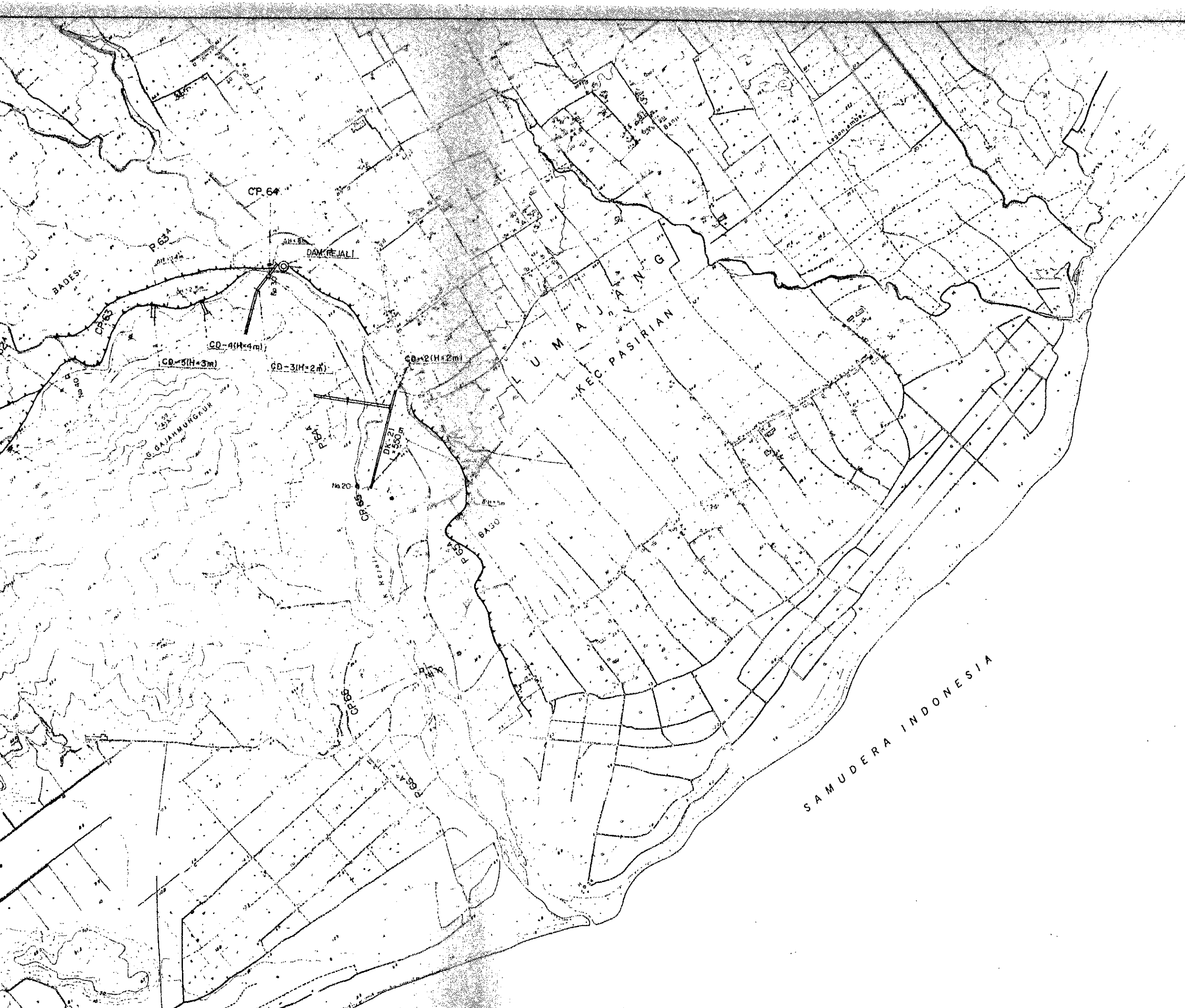
- ▲▲▲▲ NATURAL BANK
- ▬ DIKE
- ▬▬▬ CONSOLIDATION DAM
- ▽ CHECK DAM
- ▬▬▬ RIVER EXCAVATION OR RIVER IMPROVEMENT
- ▨▨▨ URGENT IMPROVEMENT PROJECT FACILITY (UIP)
- ▬ EXISTING FACILITY
- ⊙ TECHNICAL INTAKE
- NON TECHNICAL INTAKE

REPUBLIC OF INDONESIA		SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU		1:10000
LOCATION MAP OF SEDIMENT CONTROL FACILITY ON K. MUJUR (2)		SMF 1 2
JAPAN INTERNATIONAL COOPERATION AGENCY		
DRAWN	CHECKED	APPROVED


















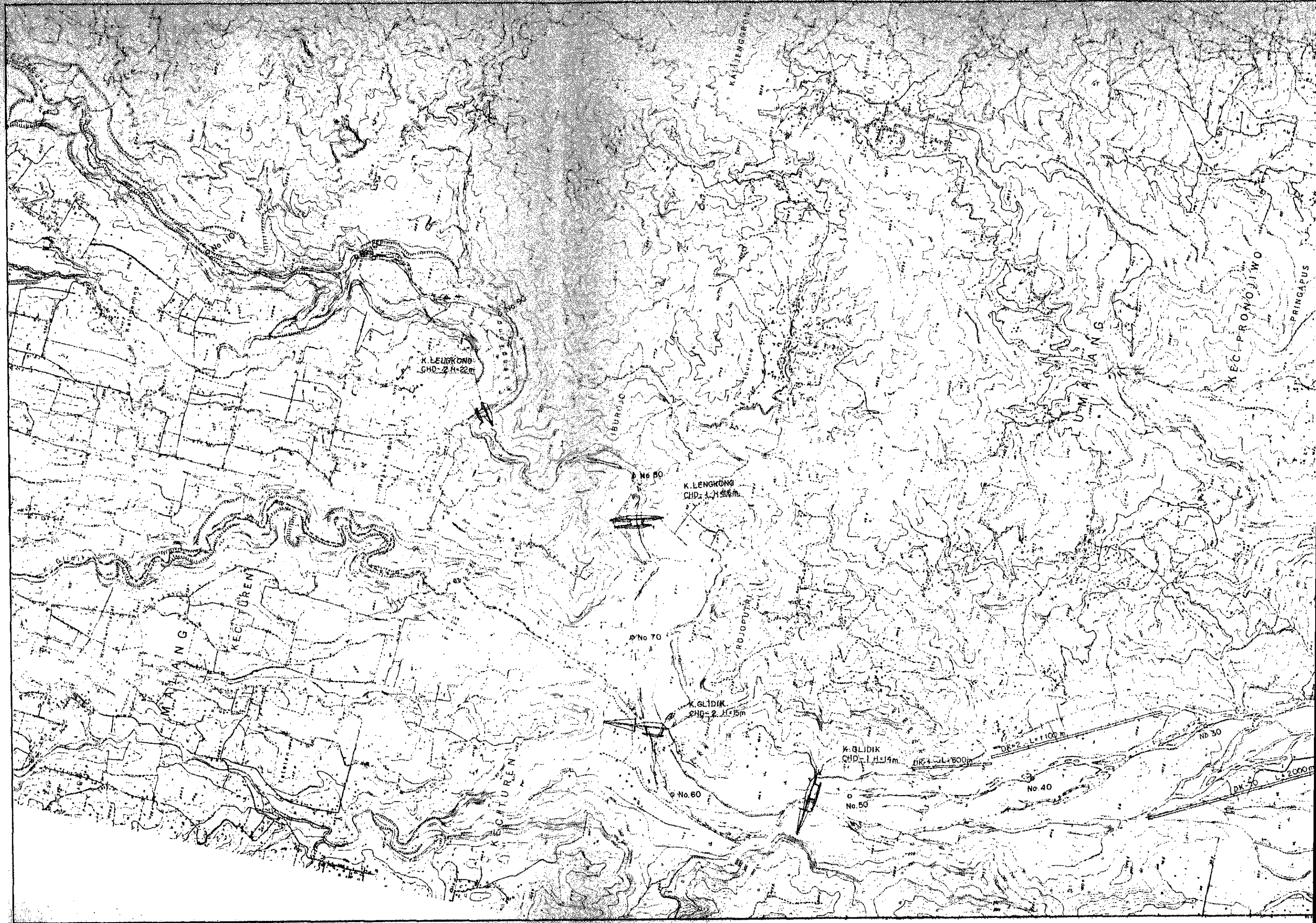


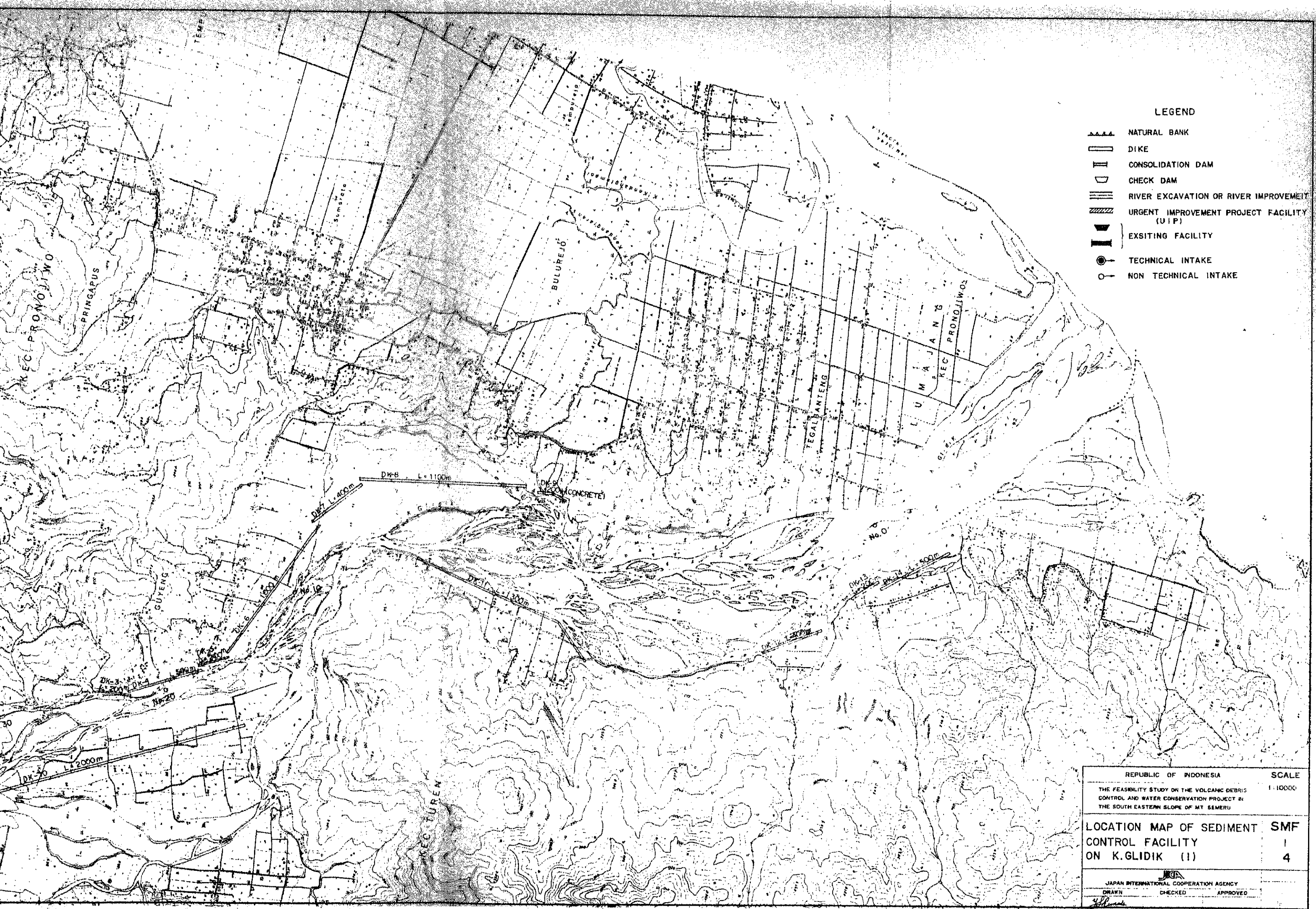


LEGEND

-  NATURAL BANK
-  DIKE
-  CONSOLIDATION DAM
-  CHECK DAM
-  RIVER EXCAVATION OR RIVER IMPROVEMENT
-  URGENT IMPROVEMENT PROJECT FACILITY (UIP)
-  EXISTING FACILITY
-  TECHNICAL INTAKE
-  NON TECHNICAL INTAKE

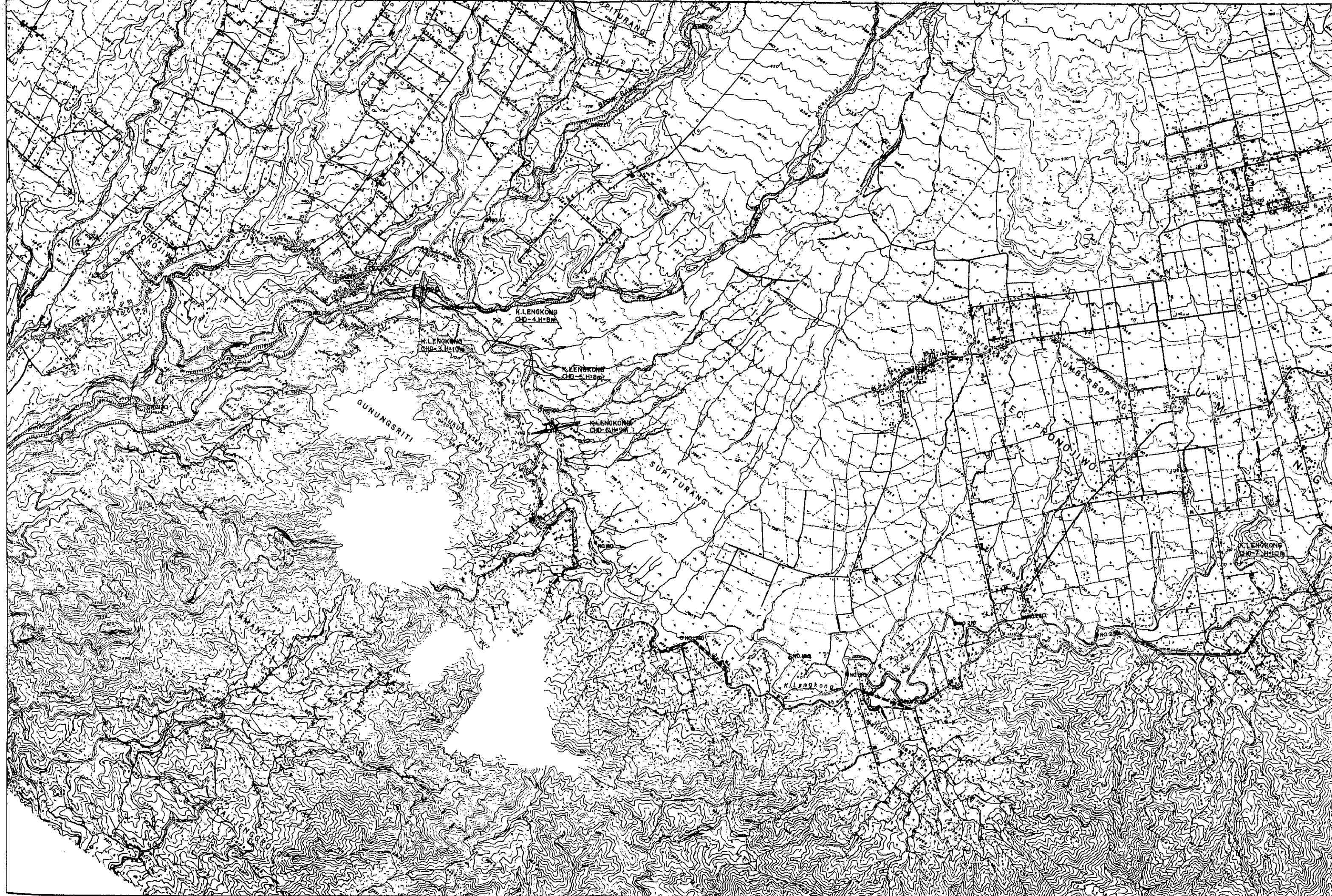
REPUBLIC OF INDONESIA		SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU		1 : 10000
LOCATION MAP OF SEDIMENT CONTROL FACILITY LOCATION ON K. REJALI		SMF 1 3
 JAPAN INTERNATIONAL COOPERATION AGENCY DRAWN:  CHECKED:  APPROVED: 		





- LEGEND
- NATURAL BANK
 - DIKE
 - CONSOLIDATION DAM
 - CHECK DAM
 - RIVER EXCAVATION OR RIVER IMPROVEMENT
 - URGENT IMPROVEMENT PROJECT FACILITY (UIP)
 - EXISTING FACILITY
 - TECHNICAL INTAKE
 - NON TECHNICAL INTAKE

REPUBLIC OF INDONESIA		SCALE
THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU		1:10000
LOCATION MAP OF SEDIMENT CONTROL FACILITY ON K. GLIDIK (I)		SMF 1 4
JAPAN INTERNATIONAL COOPERATION AGENCY		
DRAWN	CHECKED	APPROVED



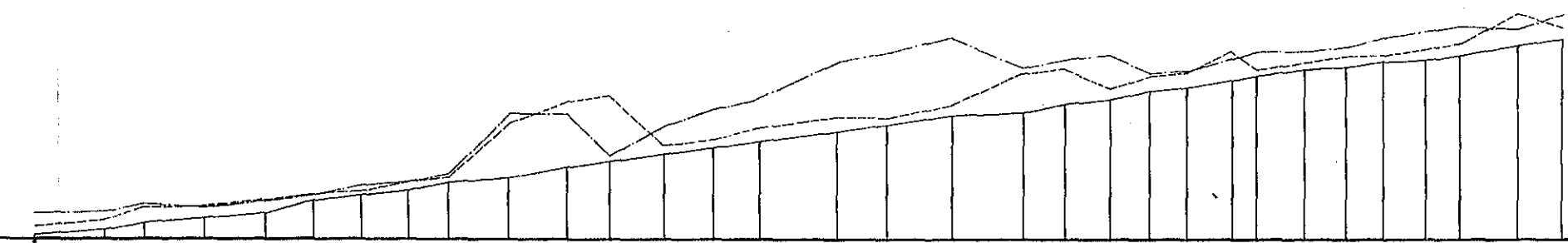
EL. m
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LEGEND

- 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

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

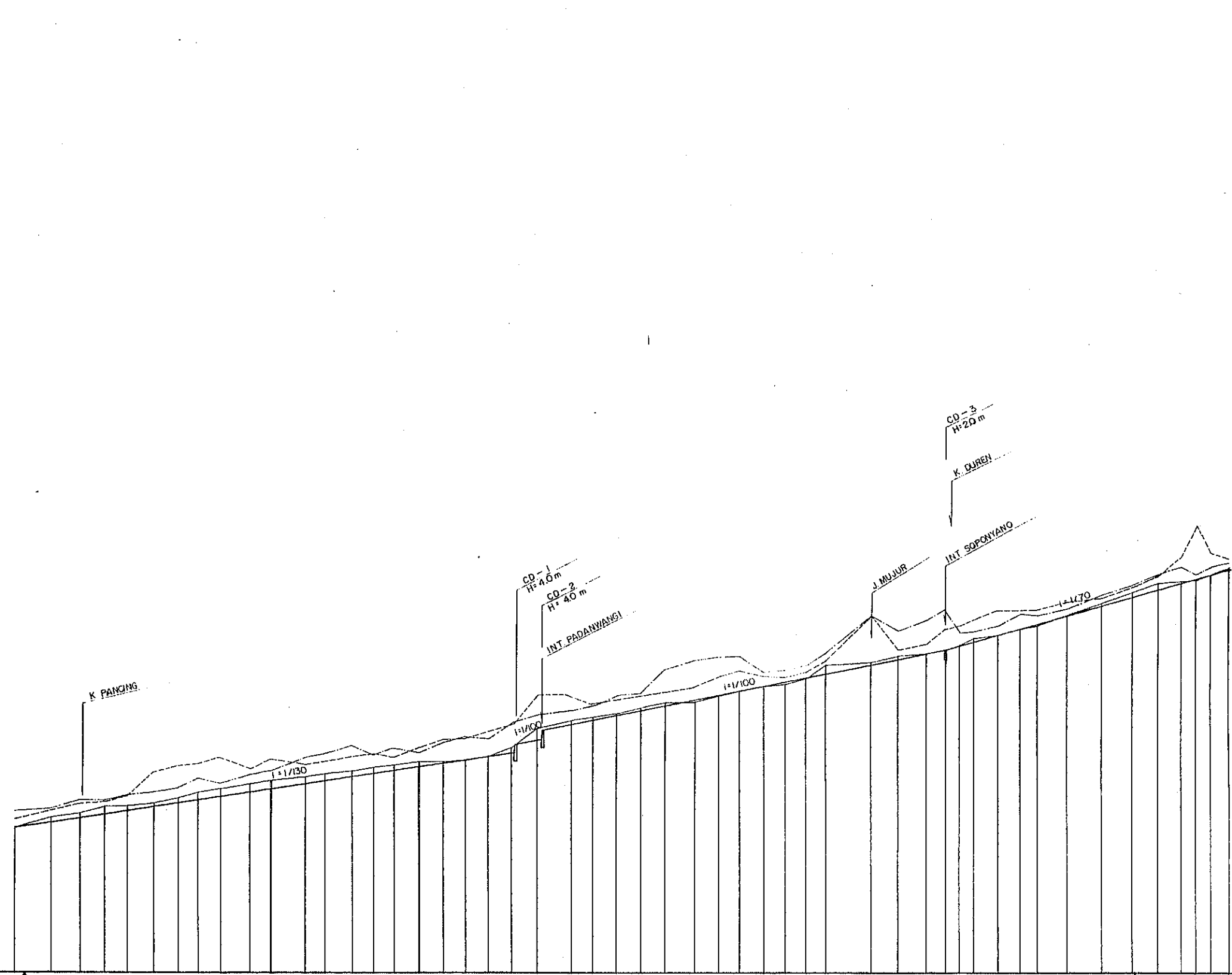
EL. 200.00

15000

100.00

5000

0.00



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

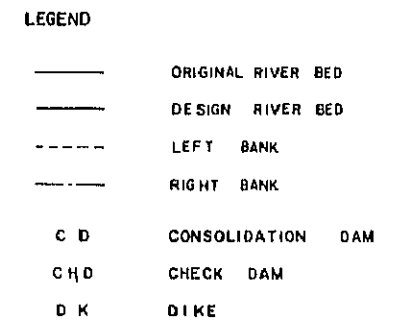
ACCUMULATED DISTANCE

DISTANCE


STATION

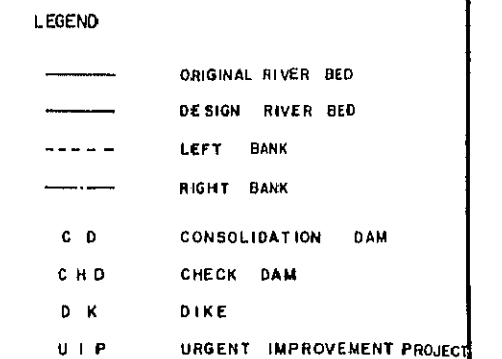
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
32045	4956.8	5116.8	5246.4	5332.7	5458.7	5578.7	5696.0	5775.0	5875.6	6005.5	6099.8	6253.8	6346.5	6463.5	6564.8	6653.9	6711.9	6875.1	6979.4	7081.4	7182.2	7305.8	7460.2	7572.1	7679.3	7783.1	7893.1	8034.7	8227.1	8388.7	8530.1	8640.3	8703.7	8826.8	8933.9	9064.8	9151.8	9211.8	9273.8	9383.8	9480.8	9556.8	9690.8	9848.8	9983.8	10104.8	10205.8	10272.8	10355.8	10419.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
138	160	129.6	106.3	106.0	120.0	107.3	90.0	99.6	130.0	94.2	154.0	92.8	119.0	99.2	89.1	118.0	103.2	104.3	102.0	106.8	117.6	154.4	111.9	107.2	103.8	110.0	134.0	111.6	91.4	110.2	95.4	91.1	91.0	196.0	120.0	131.0	87.0	60.0	62.0	110.0	97.0	76.0	134.0	159.0	135.0	121.0	102.0	66.0	63.0	84.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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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. MUJUR (2)		SMF 1 7
JAPAN INTERNATIONAL COOPERATION AGENCY		
DRAWN	CHECKED	APPROVED
S. Dharma	K. Kanda	




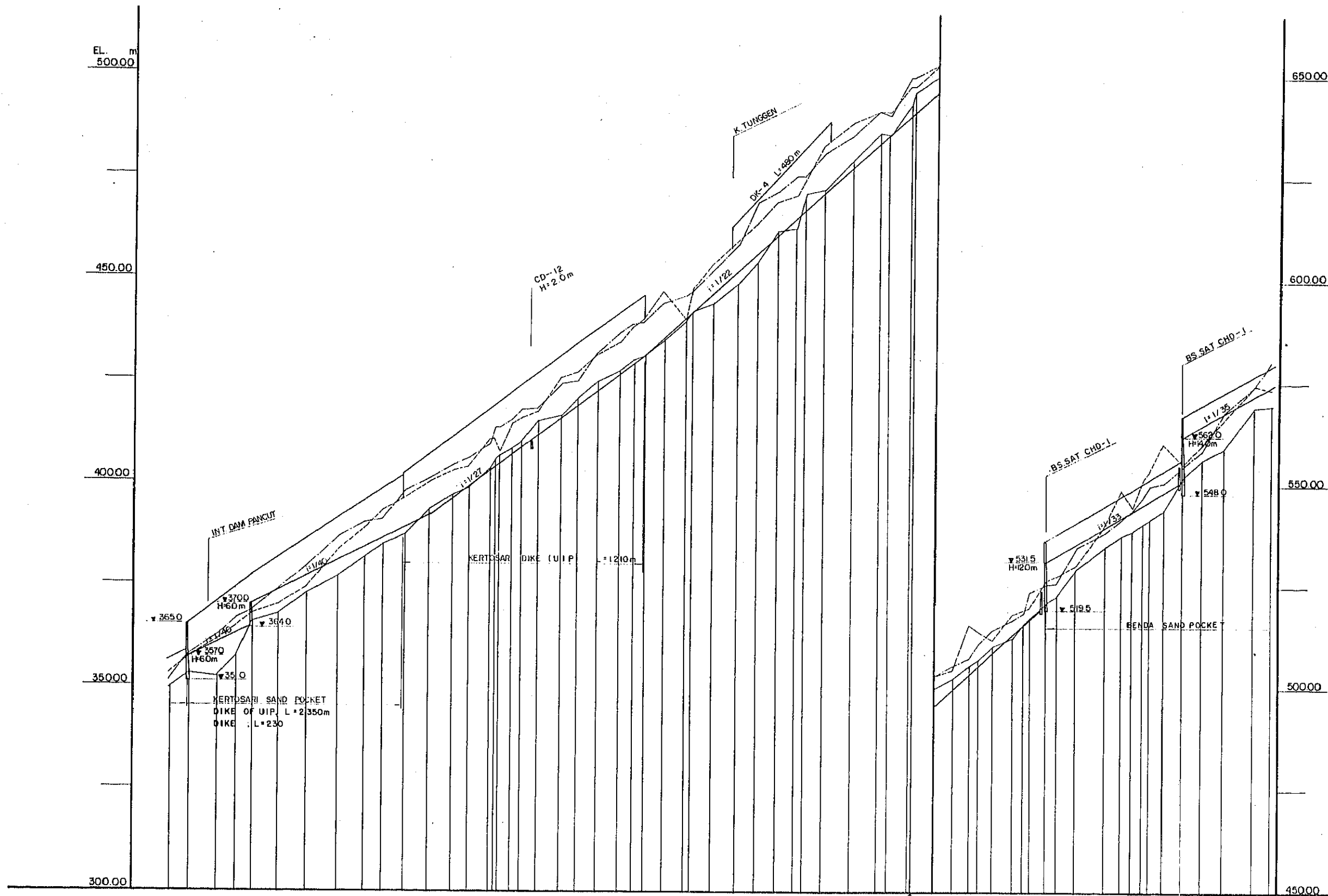
STATION	DISTANCE	ACCUMULATED DISTANCE	LOWEST RIVER BED HEIGHT	GRADIENT OF ORIGINAL RIVER BED
81	84.0	10419.8	90.662	$\frac{1}{L} = \frac{1}{3655}$
82	98.0	10517.8	91.235	
83	93.0	10610.8	92.215	
84	66.0	10676.8	93.035	
85	85.0	10729.8	93.735	
86	55.0	10784.8	94.535	
87	58.0	10842.8	94.865	
88	125.0	10967.8	101.565	
89	85.0	11052.8	101.825	
90	165.0	11217.8	104.895	
91	85.0	11302.8	105.765	
92	172.0	11474.8	107.265	
93	117.0	11591.8	110.985	
94	90.0	11681.8	112.145	
95	177.0	11858.8	114.276	
96	850	11943.8	114.636	
97	69.0	12012.8	117.225	
98	96.0	12108.8	117.016	
99	60.0	12168.8	120.715	
100	101.0	12269.8	121.526	
101	67.0	12336.8	122.896	
102	125.0	12461.8	127.001	
103	150.0	12611.8	128.341	
104	75.0	12686.8	129.901	
105	94.0	12780.8	131.131	
106	137.0	12917.8	133.417	
107	152.0	13069.8	135.021	
108	86.0	13155.8	137.852	
109	94.0	13249.8	139.627	
110	92.0	13341.8	139.657	
111	73.0	13414.8	141.502	
112	118.0	13532.8	142.062	
113	131.0	13663.8	146.032	
114	130.0	13793.8	149.422	
115	100.0	13893.8	150.743	
116	118.0	14011.8	152.673	
117	74.0	14085.8	155.372	
118	102.0	14187.8	157.422	
119	94.0	14281.8	157.877	
120	90.0	14371.8	161.712	
121	93.0	14464.8	162.302	
122	136.0	14600.8	163.495	
123	100.0	14700.8	165.035	
124	100.0	14800.8	168.365	
125	90.0	14890.8	168.605	
126	70.0	14960.8	170.195	
127	120.0	15080.8	172.375	
128	132.0	15212.8	173.835	
129	128.0	15340.8	179.565	
130	70.0	15410.8	183.275	
131	155.0	15563.8	186.995	
132	48.0	15613.8	186.505	
133	92.0	15705.8	188.470	
134	116.0	15815.8	190.872	
135	90.0	15905.8	193.697	

REPUBLIC OF INDONESIA THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU		SCALE H = 1 : 10000 V = 1 : 500			
LONGITUDINAL PROFILE OF K. MUJUR (3)		SMF 1 8			
<div style="text-align: center;">  JAPAN INTERNATIONAL COOPERATION AGENCY </div> <table border="1" style="width: 100%;"> <tr> <td style="width: 33%;"> DRAWN <i>S. Doniger</i> </td> <td style="width: 33%;"> CHECKED <i>Shiraki</i> </td> <td style="width: 33%;"> APPROVED </td> </tr> </table>			DRAWN <i>S. Doniger</i>	CHECKED <i>Shiraki</i>	APPROVED
DRAWN <i>S. Doniger</i>	CHECKED <i>Shiraki</i>	APPROVED			



STATION	DISTANCE	ACCUMULATED DISTANCE	LOWEST RIVER BED HEIGHT	GRADIENT OF ORIGINAL RIVER BED
135	90.0	15905.8	193.597	
136	138.0	16043.8	196.004	
137	128.0	16171.8	198.772	
138	170.0	16341.8	207.342	
139	100.0	16441.8	210.493	
140	94.0	16535.8	211.004	
141	123.0	16658.8	214.147	
142	94.0	16752.8	220.554	
143	100.0	16852.8	225.291	
144	122.0	16974.8	225.847	
145	112.0	17086.8	227.106	
146	121.0	17207.8	229.107	
147	95.0	17302.8	232.775	
148	99.0	17401.8	234.825	
149	98.0	17499.8	236.107	
150	120.0	17619.8	236.796	
151	91.0	17710.8	237.025	
152	128.0	17838.8	245.745	
153	114.0	17952.8	245.615	
154	152.0	18104.8	245.615	
155	100.0	18204.8	249.393	
156	120.0	18324.8	251.6043	
157	100.0	18424.8	256.555	
158	100.0	18524.8	257.275	
159	12.0	18644.8	264.145	
160	122.0	18766.8	269.470	
161	107.0	18873.8	272.044	
162	130.0	19003.8	272.067	
163	158.0	19161.8	274.695	
164	134.0	19315.8	279.505	
165	101.0	19416.8	281.469	
166	104.0	19520.8	282.3	
167	102.0	19622.8	283.2	
168	98.0	19720.8	288.004	
169	100.0	19820.8	293.255	
170	90.0	19910.8	296.095	
171	101.0	20011.8	300.394	
172	126.0	20137.8	304.273	
173	67.0	20204.8	304.597	
174	133.0	20337.8	311.922	
175	92.0	20429.8	316.482	
176	131.0	20560.8	322.5	
177	43.0	20703.8	324.200	
178	151.0	20854.8	328.8	
179	107.0	20961.8	331.587	
180	140.0	2101.8	335.686	
181	107.0	21208.8	337.891	
182	123.0	21331.8	349.270	

REPUBLIC OF INDONESIA THE FEASIBILITY STUDY ON THE VOLCANIC DEBRIS CONTROL AND WATER CONSERVATION PROJECT IN THE SOUTH EASTERN SLOPE OF MT. SEMERU		SCALE H = 1:10000 V = 1:500
LONGITUDINAL PROFILE OF K. MUJUR (4)		SMF 1 9
<div style="text-align: center;">  JAPAN INTERNATIONAL COOPERATION AGENCY </div>		
DRAWN <i>S. Dwidjati</i>	CHECKED <i>M. H. Hidayat</i>	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	1:1/27	1:1/20
LOWEST RIVER BED HEIGHT	123.0	123.0
ACCUMULATED DISTANCE	2133.8	2133.8
DISTANCE	9.40	9.40
STATION	182	182
	183	183
	184	184
	185	185
	186	186
	187	187
	188	188
	189	189
	190	190
	191	191
	192	192
	193	193
	194	194
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	226	226
	227	227
	228	228
	229	229
	230	230
	231	231
	232	232
	233	233
	234	234
	235	235
	236	236
	237	237
	238	238
	239	239
	240	240
	241	241
	242	242
	243	243
	244	244

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. MUJUR (5)

JAPAN INTERNATIONAL COOPERATION AGENCY

DRAWN: S. Daryanto

CHECKED: [Signature]

APPROVED: [Signature]

SCALE

H=1:10000

V=1:500

SMF 1/10

EL. m

750.00

700.00

650.00

600.00

550.00

EL. m

900.00

850.00

800.00

750.00

700.00

SUMBERSARI CHD

▽ 598.5
H=17.0m

▽ 591.5

▽ 550.0
H=8.0m

▽ 559.0

▽ 555.5
H=6.5m▽ 582.25
H=6.25m

▽ 671.0

▽ 711.0
H=10.5m

▽ 700.5

▽ 732.0
H=8.0m

▽ 740.5

▽ 759.5
H=19.0m▽ 809.5
H=11.0m

▽ 799.5

▽ 851.0
H=17.0m

▽ 834.0

GRADIENT OF
ORIGINAL RIVER BEDLOWEST
RIVER BED HEIGHTACCUMULATED
DISTANCE

DISTANCE

STATION

244	85.0	5764.8	569.448
245	74.0	5808.8	572.336
246	114.0	58952.8	577.458
247	74.0	59026.8	582.746
248	97.0	59123.8	587.178
249	109.0	59232.8	594.431
250	90.0	59322.8	598.311
251	94.0	59416.8	600.958
252	93.0	59509.8	606.568
253	57.0	59566.8	612.922
254	137.0	59703.8	620.932
255	114.0	59817.8	627.021
256	120.0	59957.8	633.694
257	103.0	60050.8	636.448
258	30.0	60080.8	638.708
259	75.0	60165.8	644.085
260	112.0	60277.8	644.085
261	128.0	60405.8	654.521
262	152.0	60577.8	663.125
263	16.0	60573.8	666.371
264	145.0	60718.8	670.102
265	100.0	60818.8	674.765
266	26.0	60844.8	675.781
267	79.0	60923.8	679.671
268	100.0	61023.8	684.071
269	40.0	61063.8	686.631
270	60.0	61123.8	690.671
271	54.0	61177.8	692.421
272	148.0	61325.8	702.611
273	110.0	61335.8	706.932
274	130.0	61465.8	711.835
275	130.0	61565.8	717.897
276	205.0	61780.8	731.865
277	130.0	61891.8	738.828
278	70.0	61980.8	744.389
279	88.0	62068.8	749.922
280	126.0	62194.8	757.317
281	140.0	62348.8	769.849
282	37.0	62371.8	769.049
283	116.0	62487.8	777.901
284	46.0	62533.8	778.911
285	42.0	62575.8	780.331
286	94.0	62669.8	789.907
287	119.0	62788.8	794.032
288	40.0	62828.8	795.742
289	61.0	62889.8	800.262
290	70.0	62959.8	805.870
291	68.0	63027.8	809.400
292	124.0	63151.8	819.000
293	123.0	63275.8	828.402
294	45.0	63318.8	831.962
295	25.0	63347.8	833.672
296	32.0	63379.8	835.886
297	47.0	63426.8	839.761
298	62.0	63488.8	844.581
299	100.0	63588.8	850.013
300	108.0	63696.8	854.214
301	96.0	63792.8	862.094
302	106.0	63900.8	871.272
303	99.0	64009.8	878.475
304	98.0	64097.8	886.650
305	47.0	64144.8	890.245

LEGEND

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

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. MUJUR (6)
SCALE
H = 1:10000
V = 1:500SMF
I
II

JAPAN INTERNATIONAL COOPERATION AGENCY

 DRAWN: S. Purnomo
 CHECKED: Y. Purnomo
 APPROVED:

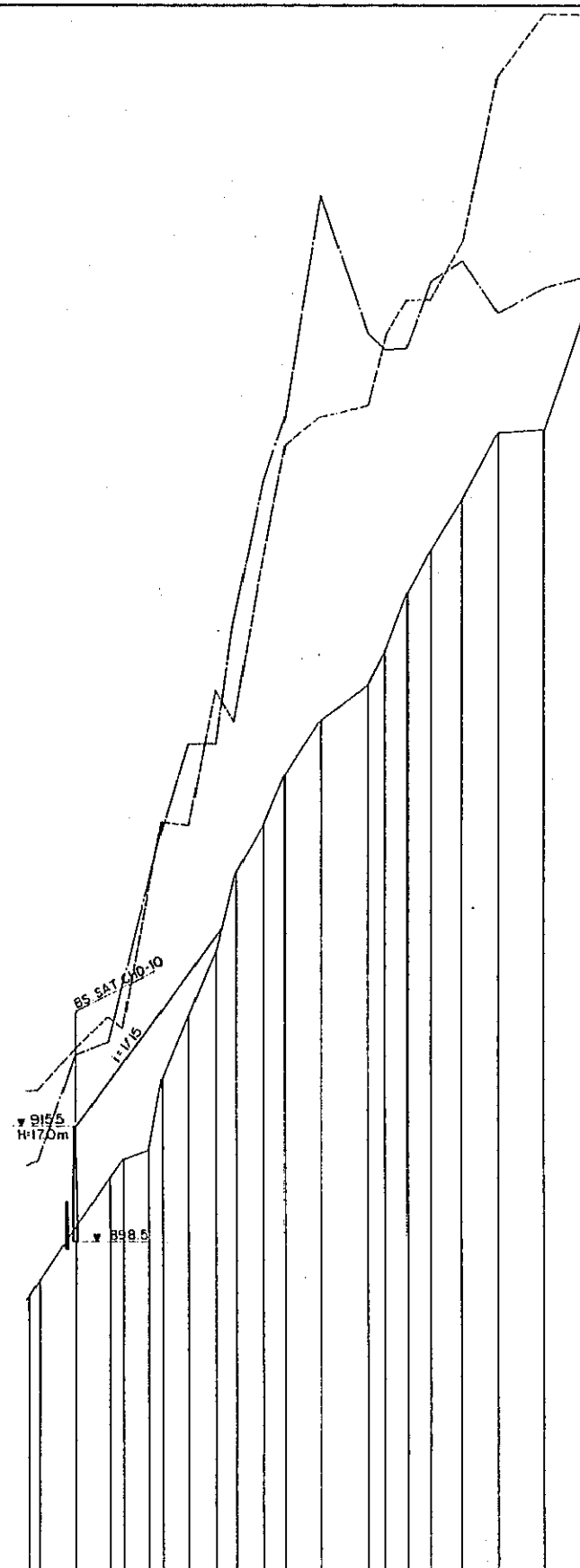
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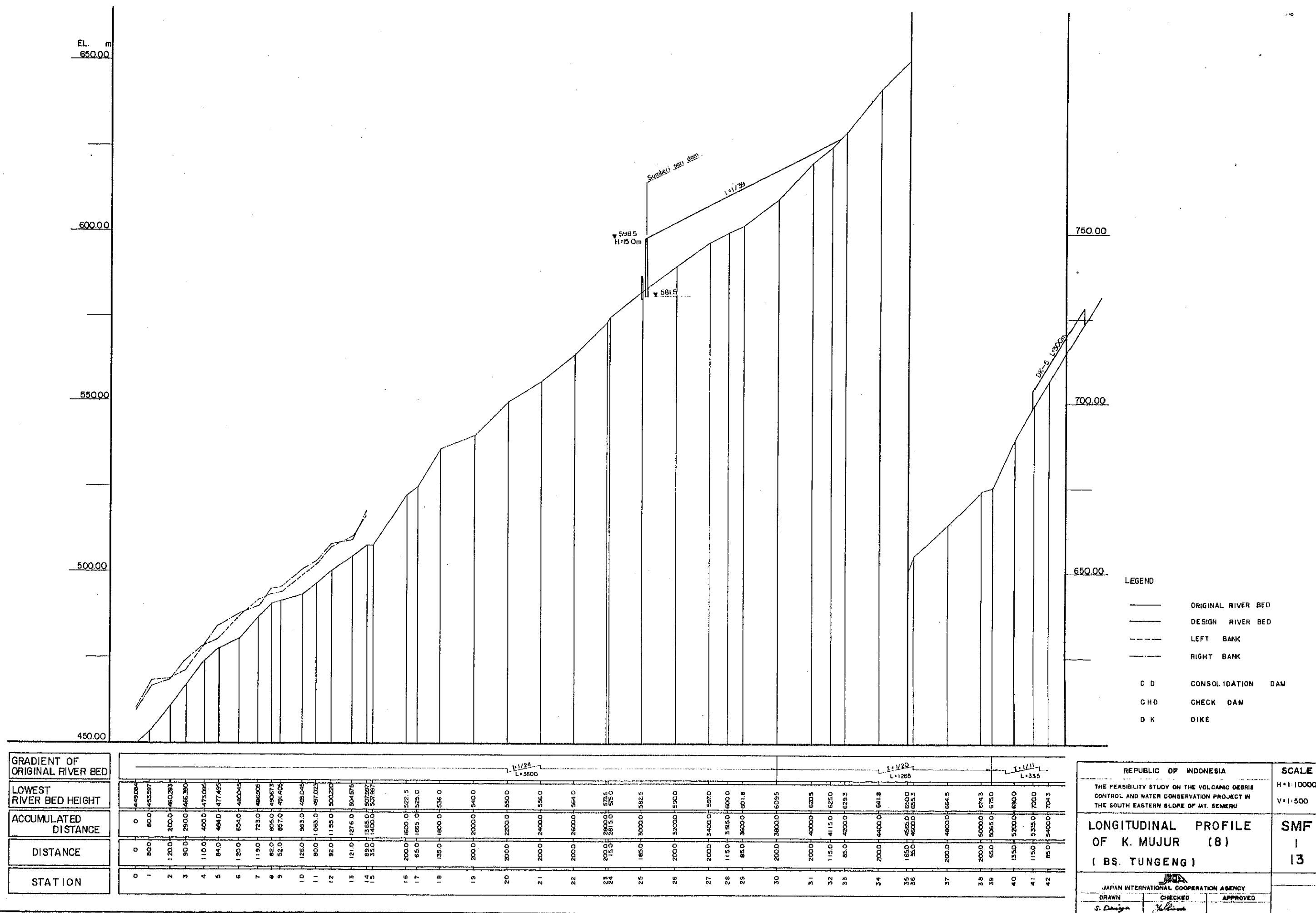
LEGEND

- 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

305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325
32144.8	32178.8	32202.8	32226.8	32250.8	32274.8	32298.8	32322.8	32346.8	32370.8	32394.8	32418.8	32442.8	32466.8	32490.8	32514.8	32538.8	32562.8	32586.8	32610.8	32634.8
47.0	34.0	104.0	101.0	43.0	73.0	40.0	80.0	84.0	61.0	79.0	64.0	106.0	141.0	48.0	69.0	70.0	91.0	113.0	141.0	122.0
305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325

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. MUJUR (7)		SMF 1 12
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		
DRAWN S. Danyu	CHECKED K. Sano	APPROVED



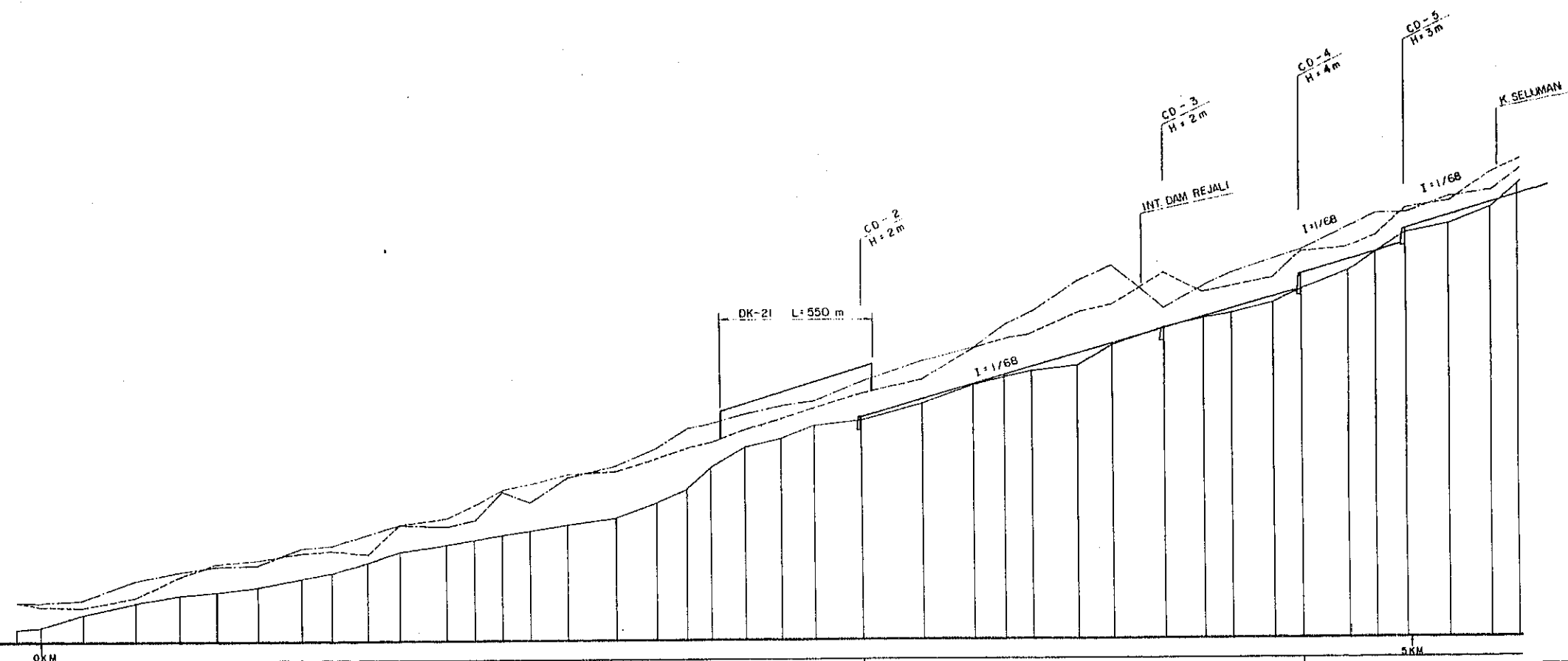
EL. 200.00

150.00

100.00

50.00

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

N	0	0	85	2 151
1	85	0	2 453	
2	150	150	4 732	
3	190	340	6 881	
4	160	500	8 121	
5	140	640	8 730	
6	150	790	9 569	
7	160	950	11 239	
8	110	1060	12 117	
9	130	1190	13 997	
10	115	1305	15 907	
11	175	1 460	17 330	
12	105	1 585	18 139	
13	100	1 685	18 939	
14	105	1 790	19 709	
15	130	1 920	20 831	
16	180	2 100	22 047	
17	150	2 250	24 707	
18	110	2 360	26 931	
19	100	2 460	30 867	
20	130	2 590	34 555	
21	130	2 720	36 006	
22	120	2 840	38 440	
23	170	3010	39 351	
24	225	3235	42 215	
25	185	3420	45 665	
26	110	3550	46 887	
27	100	3630	48 027	
28	160	3790	49 099	
29	125	3915	52 701	
30	190	4105	55 981	
31	140	4245	57 512	
32	100	4 345	59 419	
33	150	4 495	60 216	
34	100	4 595	62 620	
35	170	4 765	66 004	
36	100	4 865	69 224	
37	125	4 990	72 630	
38	150	5140	74 447	
39	150	5290	77 227	

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 (I)		SMF 14
JAPAN INTERNATIONAL COOPERATION AGENCY		
DRAWN	CHECKED	APPROVED