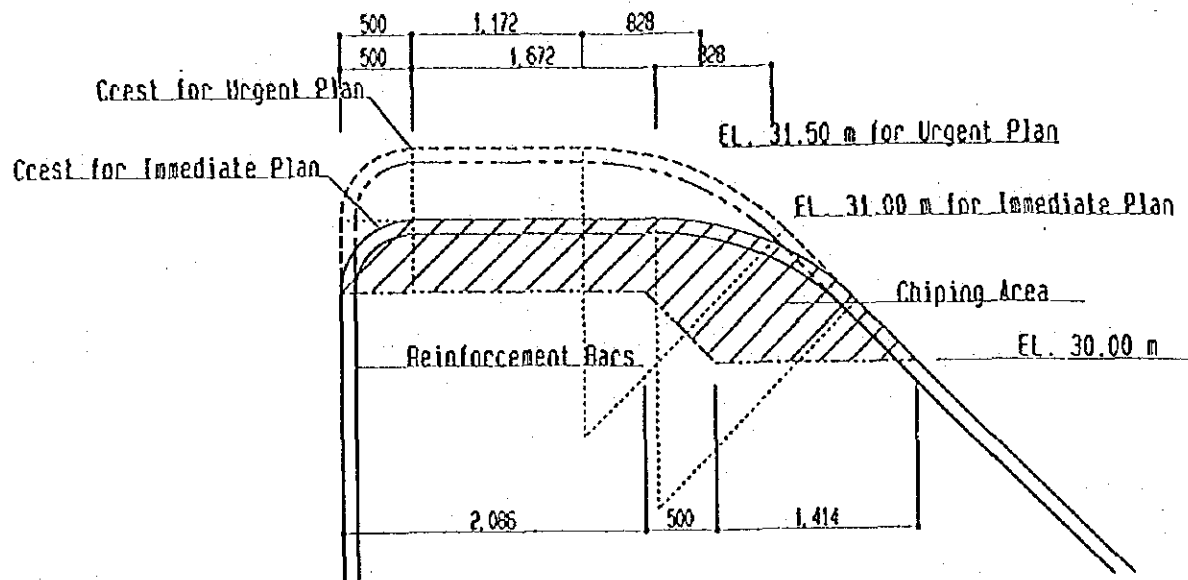


DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT

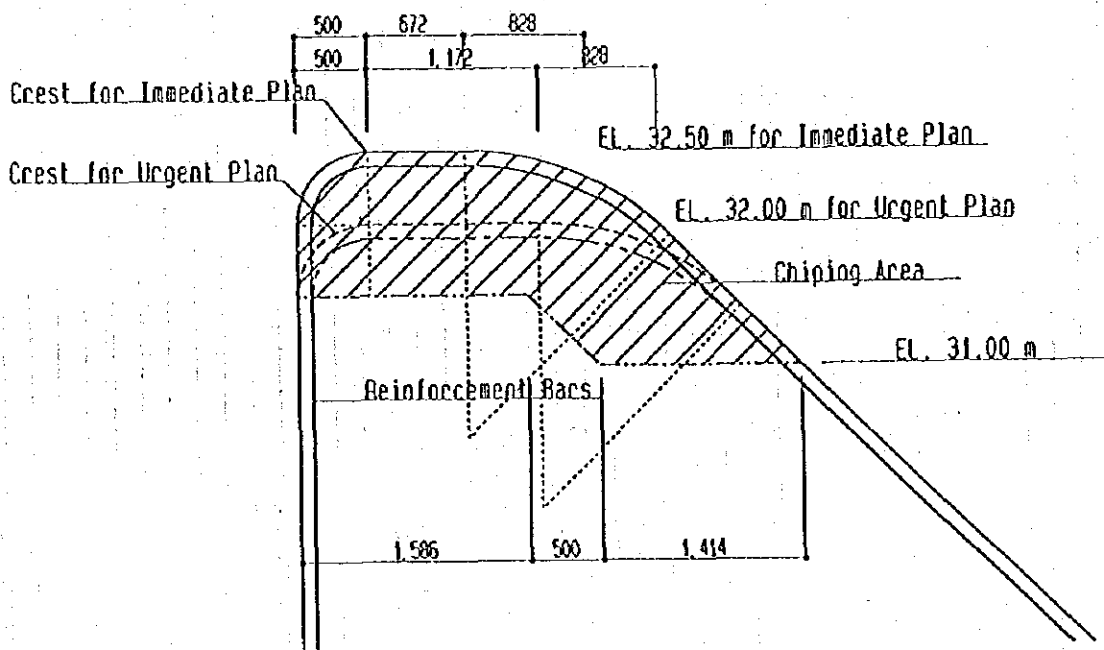
JAPAN INTERNATIONAL COOPERATION AGENCY

図 3.3

社会影響調査に係わる郡の位置



Deli River Weir

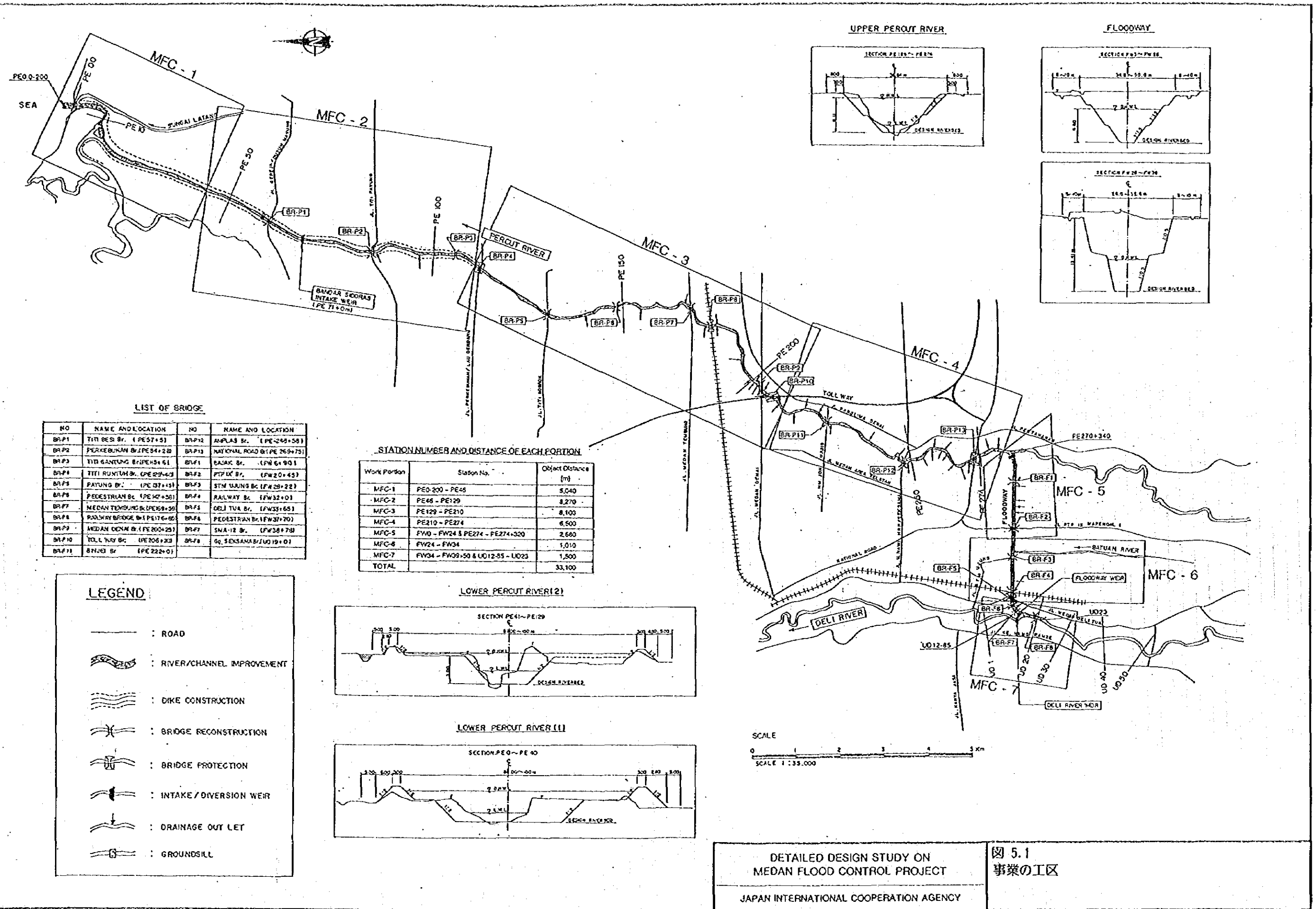


Floodway Weir

DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

図 4.1
分水堰頂の改変計画



LIST OF BRIDGE

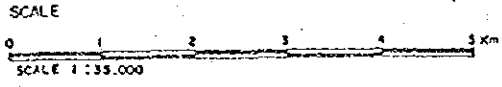
NO	NAME AND LOCATION	NO	NAME AND LOCATION
BR-P1	TITI DESI Br. (PE57+53)	BR-P12	AMPAS Br. (PE245+58)
BR-P2	PERKUBUNAN Br. (PE34+28)	BR-P13	NATIONAL ROAD Br. (PE269+75)
BR-P3	TITI GANTUNG Br. (PE54+51)	BR-F1	BAJAK Br. (FW64+90)
BR-P4	TITI RUNTUH Br. (PE29+43)	BR-F2	PITUK Br. (FW20+45)
BR-F3	PAYUNG Br. (PE37+51)	BR-F3	STN WAUNG Br. (FW28+22)
BR-F4	PEDESTRIAN Br. (PE47+58)	BR-F4	RAILWAY Br. (FW32+01)
BR-F5	MEDAN TEMBUNG Br. (PE68+58)	BR-F5	DELI IVA Br. (FW33+65)
BR-F6	RAILWAY BRIDGE Br. (PE17+65)	BR-F6	PEDESTRIAN Br. (FW37+70)
BR-F7	MEDAN OKAN Br. (PE200+25)	BR-F7	SMA-12 Br. (FW38+78)
BR-F8	TOLL WAY Br. (PE206+30)	BR-F8	Gg. SEKSNASAB/UD19+01
BR-F9	BNJEL Br. (PE222+01)		

STATION NUMBER AND DISTANCE OF EACH PORTION

Work Portion	Station No.	Object Distance (m)
MFC-1	PE0-200 - PE45	5,040
MFC-2	PE45 - PE129	8,270
MFC-3	PE129 - PE210	8,100
MFC-4	PE210 - PE274	6,500
MFC-5	FW0 - FW24 & PE274 - FE274+300	2,580
MFC-6	FW24 - FW34	1,010
MFC-7	FW34 - FW39+50 & UD12-35 - UD23	1,500
TOTAL		33,100

LEGEND

- : ROAD
- : RIVER/CHANNEL IMPROVEMENT
- : DIKE CONSTRUCTION
- : BRIDGE RECONSTRUCTION
- : BRIDGE PROTECTION
- : INTAKE / DIVERSION WEIR
- : DRAINAGE OUT LET
- : GROUNDSILL



DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

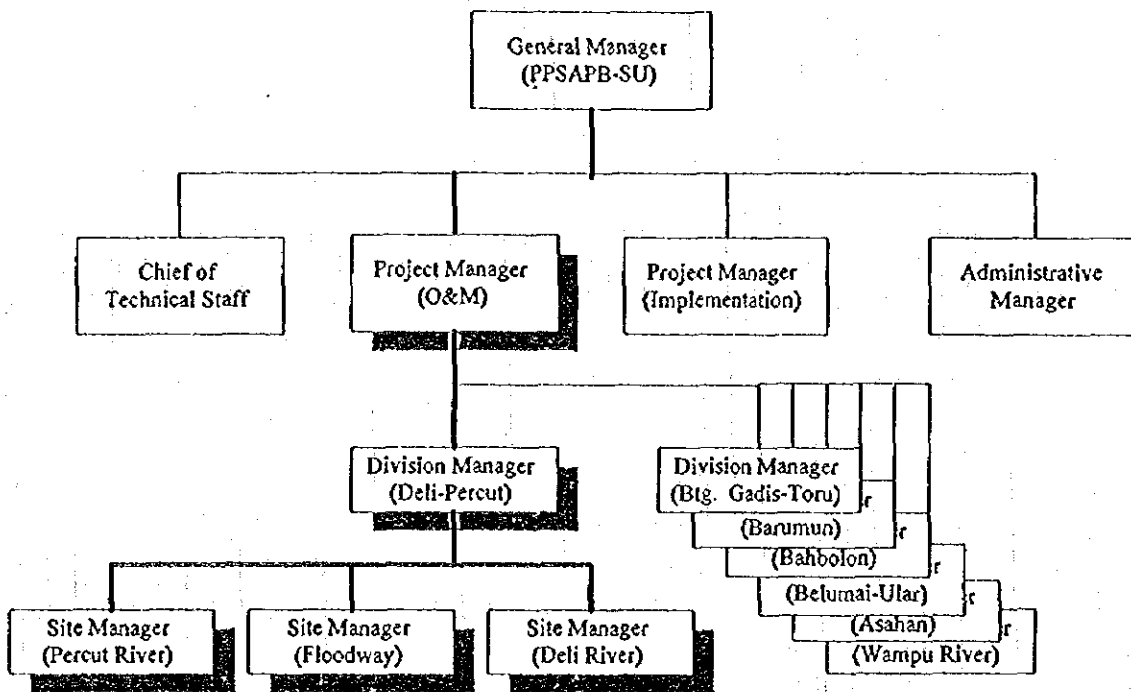
図 5.1
事業の工区

Project Name	Length (m)	Program Works	Other Works	Other Miscellaneous Work
N/C - 1 (PE 2000 - PE 2100) L = 1000 m		Program Works	1	L.S.
		River Works		
		Cleaning and Grubbing	100,000	m ²
		Seepage	20,000	m ²
		Excavation (Concrete)	81,000	m ³
		Excavation (River Channel)	120,000	m ³
		Embankment	160,000	m ³
		Reinforcement (Wet Stone Masonry)	20,000	m ³
		Reinforcement (Wet Stone Masonry)	1,500	m ³
		Sealing	80,000	m ²
		Other Works		
		Iron Working (steel)	1	L.S.
		Other Miscellaneous Work	1	L.S.
		N/C - 2 (PE 2100 - PE 2200) L = 1000 m		Program Works
River Works				
Cleaning and Grubbing	100,000			m ²
Seepage	20,000			m ²
Excavation (Concrete)	81,000			m ³
Excavation (River Channel)	120,000			m ³
Embankment	160,000			m ³
Reinforcement (Wet Stone Masonry)	20,000			m ³
Reinforcement (Wet Stone Masonry)	1,500			m ³
Sealing	80,000			m ²
Other Works				
Iron Working (steel)	1			L.S.
Other Miscellaneous Work	1			L.S.
N/C - 3 (PE 2200 - PE 2300) L = 1000 m				Program Works
		River Works		
		Cleaning and Grubbing	100,000	m ²
		Seepage	20,000	m ²
		Excavation (Concrete)	81,000	m ³
		Excavation (River Channel)	120,000	m ³
		Embankment	160,000	m ³
		Reinforcement (Wet Stone Masonry)	20,000	m ³
		Reinforcement (Wet Stone Masonry)	1,500	m ³
		Sealing	80,000	m ²
		Other Works		
		Iron Working (steel)	1	L.S.
		Other Miscellaneous Work	1	L.S.
		N/C - 4 (PE 2300 - PE 2400) L = 1000 m		Program Works
River Works				
Cleaning and Grubbing	100,000			m ²
Seepage	20,000			m ²
Excavation (Concrete)	81,000			m ³
Excavation (River Channel)	120,000			m ³
Embankment	160,000			m ³
Reinforcement (Wet Stone Masonry)	20,000			m ³
Reinforcement (Wet Stone Masonry)	1,500			m ³
Sealing	80,000			m ²
Other Works				
Iron Working (steel)	1			L.S.
Other Miscellaneous Work	1			L.S.
N/C - 5 (PE 2400 - PE 2500) L = 1000 m				Program Works
		River Works		
		Cleaning and Grubbing	100,000	m ²
		Seepage	20,000	m ²
		Excavation (Concrete)	81,000	m ³
		Excavation (River Channel)	120,000	m ³
		Embankment	160,000	m ³
		Reinforcement (Wet Stone Masonry)	20,000	m ³
		Reinforcement (Wet Stone Masonry)	1,500	m ³
		Sealing	80,000	m ²
		Other Works		
		Iron Working (steel)	1	L.S.
		Other Miscellaneous Work	1	L.S.
		N/C - 6 (PE 2500 - PE 2600) L = 1000 m		Program Works
River Works				
Cleaning and Grubbing	100,000			m ²
Seepage	20,000			m ²
Excavation (Concrete)	81,000			m ³
Excavation (River Channel)	120,000			m ³
Embankment	160,000			m ³
Reinforcement (Wet Stone Masonry)	20,000			m ³
Reinforcement (Wet Stone Masonry)	1,500			m ³
Sealing	80,000			m ²
Other Works				
Iron Working (steel)	1			L.S.
Other Miscellaneous Work	1			L.S.
N/C - 7 (PE 2600 - PE 2700) L = 1000 m				Program Works
		River Works		
		Cleaning and Grubbing	100,000	m ²
		Seepage	20,000	m ²
		Excavation (Concrete)	81,000	m ³
		Excavation (River Channel)	120,000	m ³
		Embankment	160,000	m ³
		Reinforcement (Wet Stone Masonry)	20,000	m ³
		Reinforcement (Wet Stone Masonry)	1,500	m ³
		Sealing	80,000	m ²
		Other Works		
		Iron Working (steel)	1	L.S.
		Other Miscellaneous Work	1	L.S.

DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

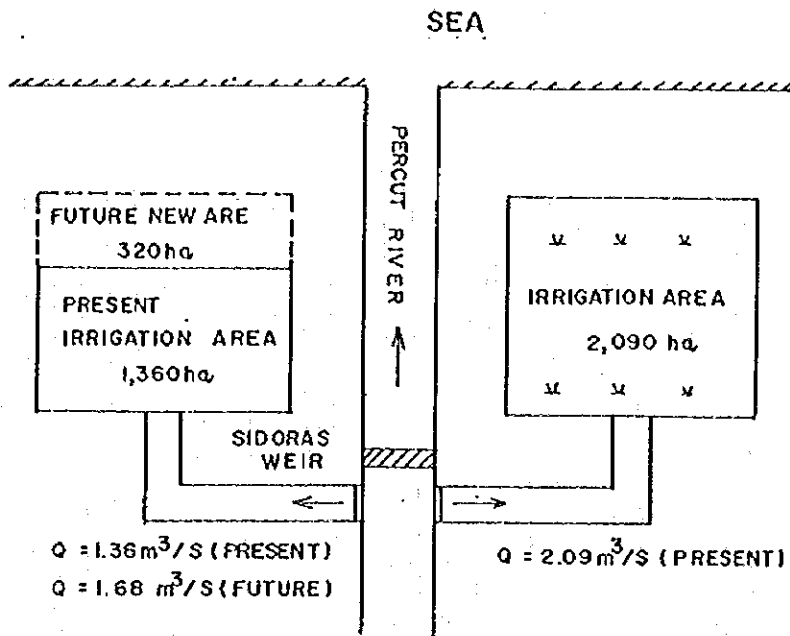
図 5.2
全体工事実施計画



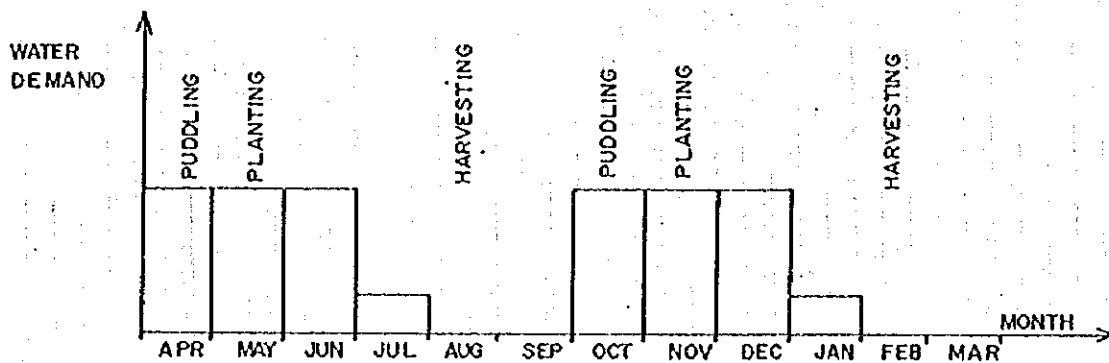
DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

図 6.1
維持管理のための組織計画



IRRIGATION AREA AND INTAKE DISCHARGE

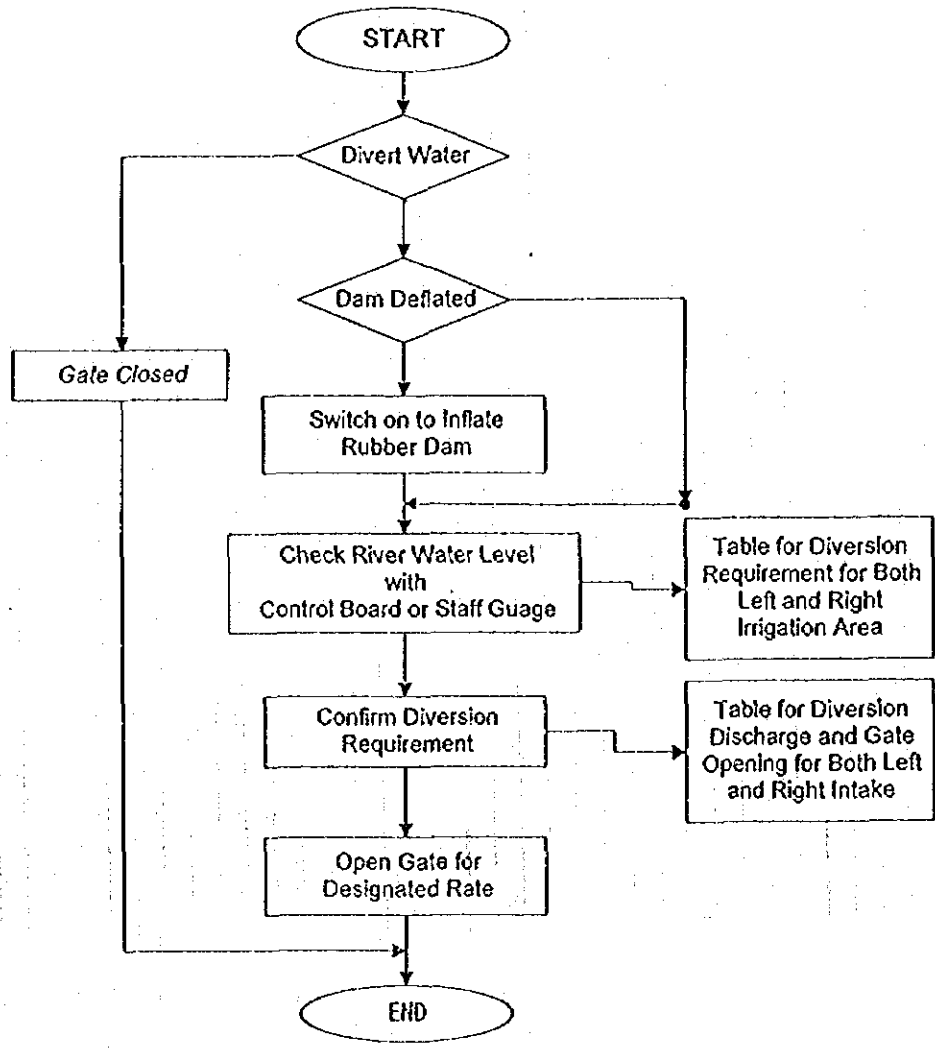


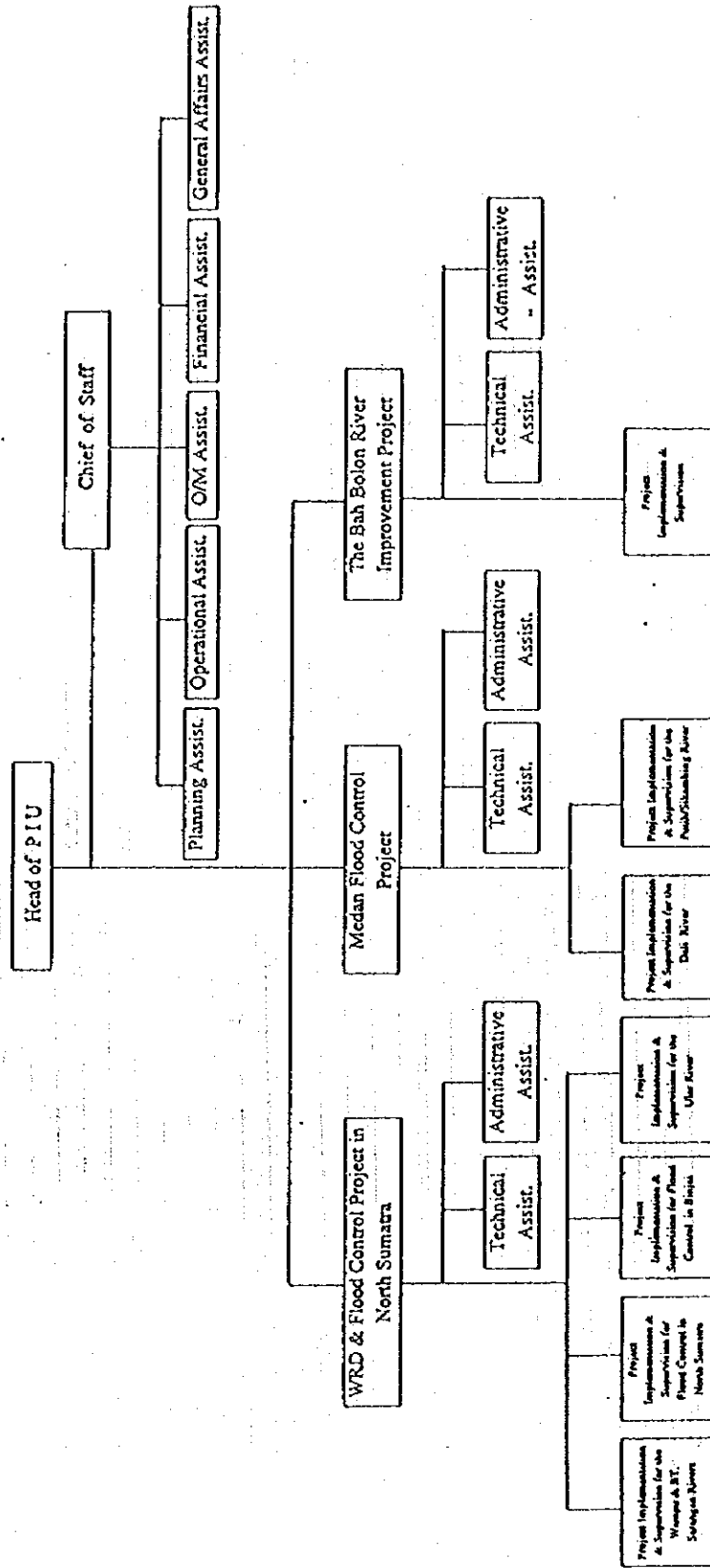
CROPPING AND WATER DEMAND PATTERN

DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

図 6.2
パツ・ル・シラ堰に係わる灌漑計画

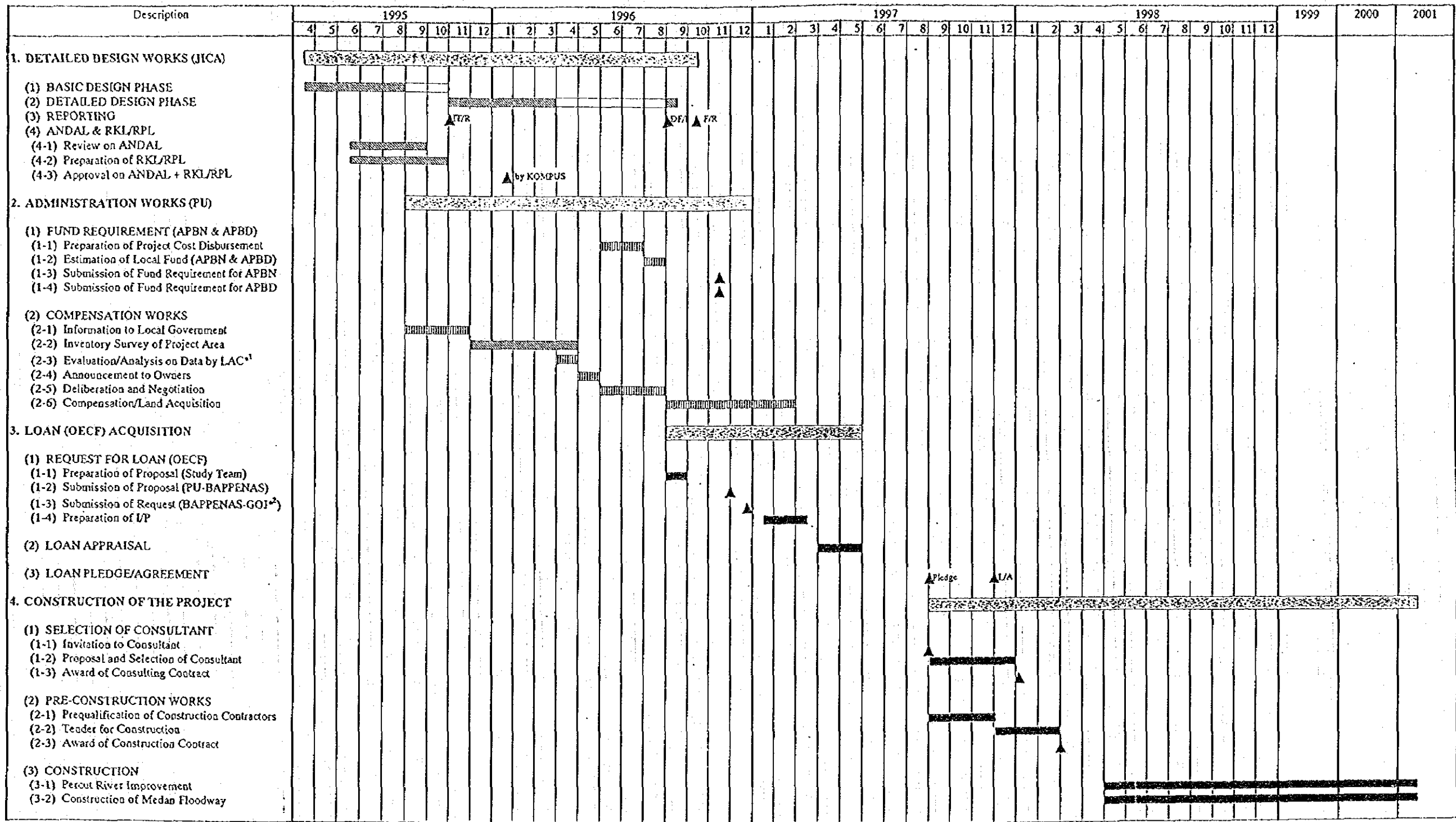




DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT

7.1
PPSAPB-SUの組織図

JAPAN INTERNATIONAL COOPERATION AGENCY



Legend : ¹ LAC = Land Acquisition Committee
² GOJ = Government of Japan

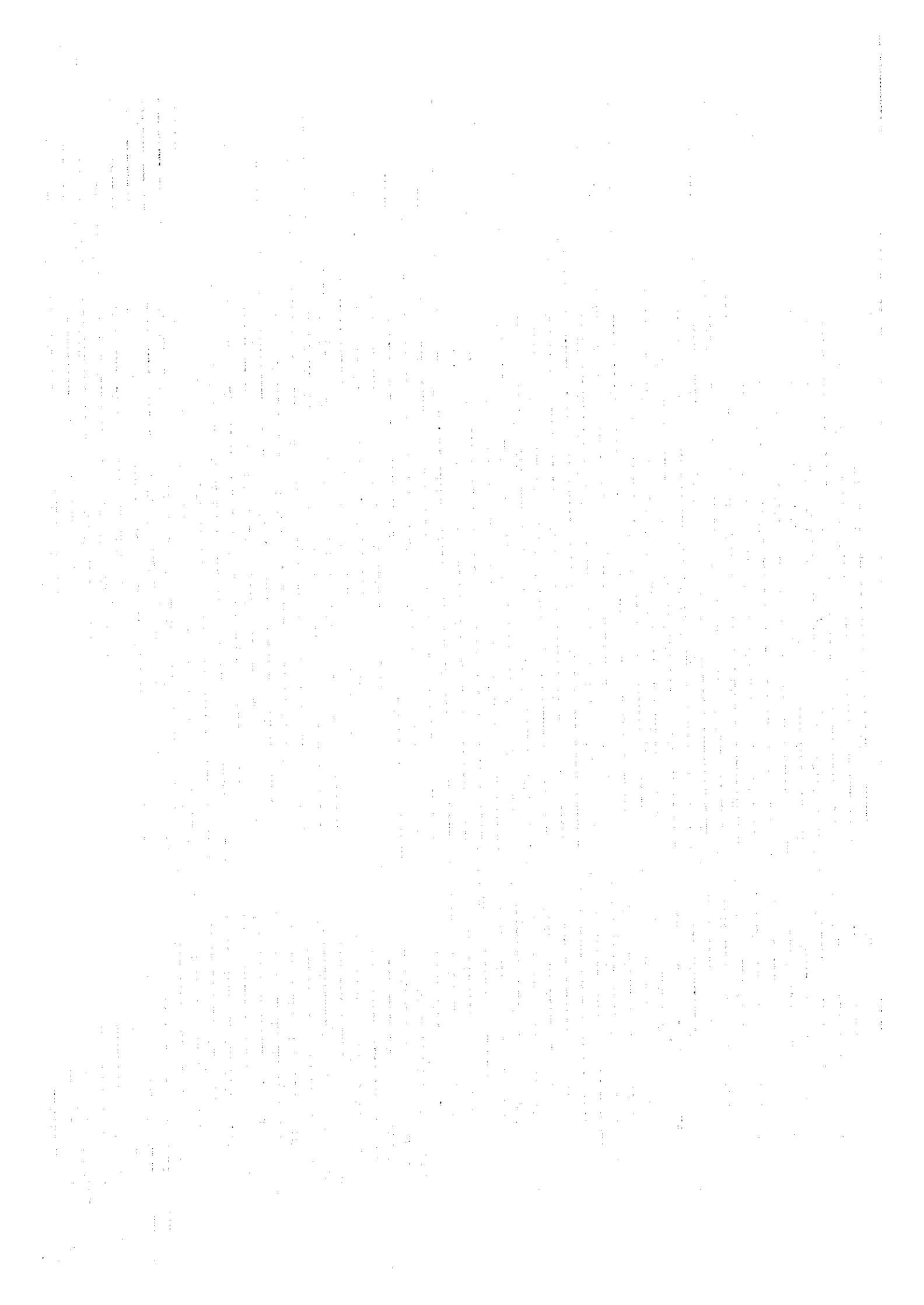
IT/R = Interim Report,

DF/R = Draft Final Report,

F/R = Final Report

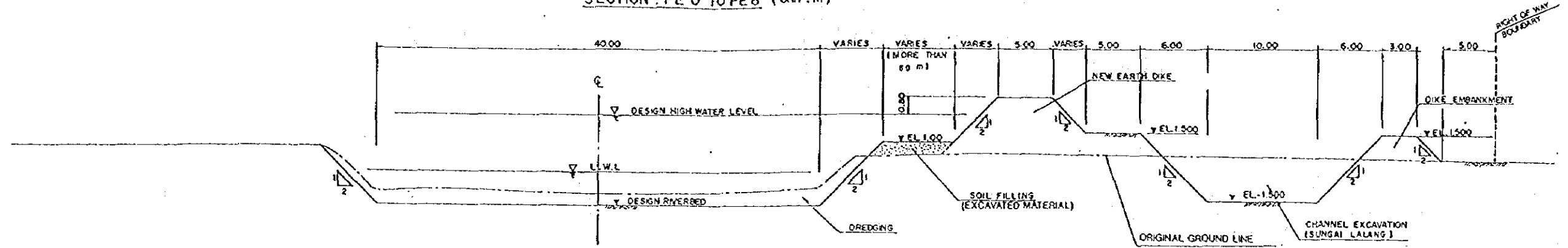
DETAILED DESIGN STUDY ON
 MEDAN FLOOD CONTROL PROJECT
 JAPAN INTERNATIONAL COOPERATION AGENCY

図 7.2
 事業実施計画

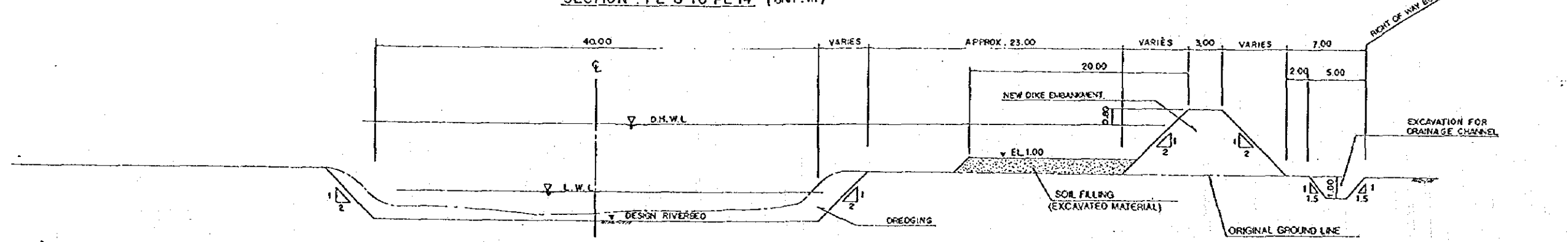


図面

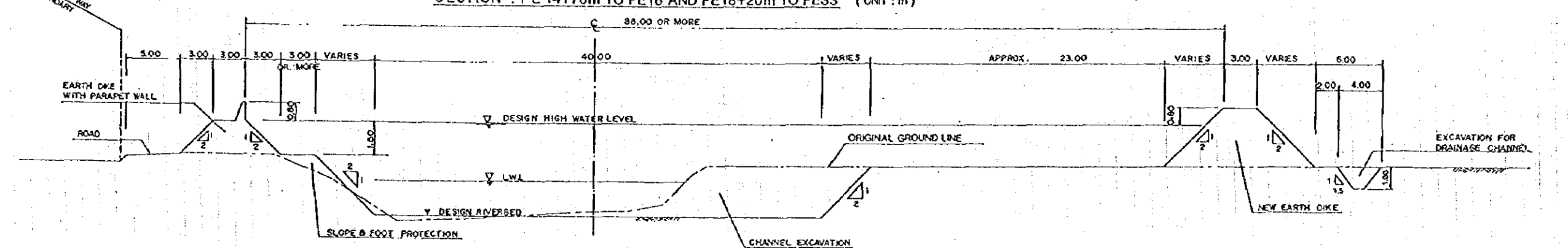
SECTION : PE 0 TO PE 8 (UNIT:m)



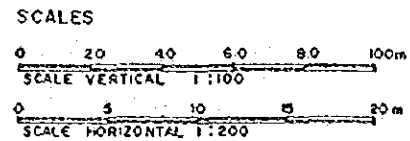
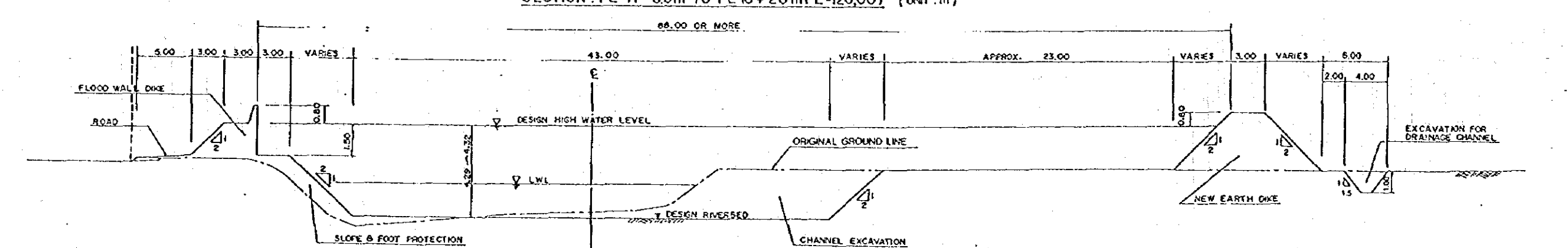
SECTION : PE 8 TO PE 14 (UNIT:m)



SECTION : PE 14+70m TO PE16 AND PE18+20m TO PE33 (UNIT:m)



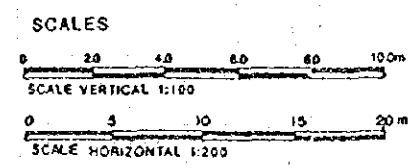
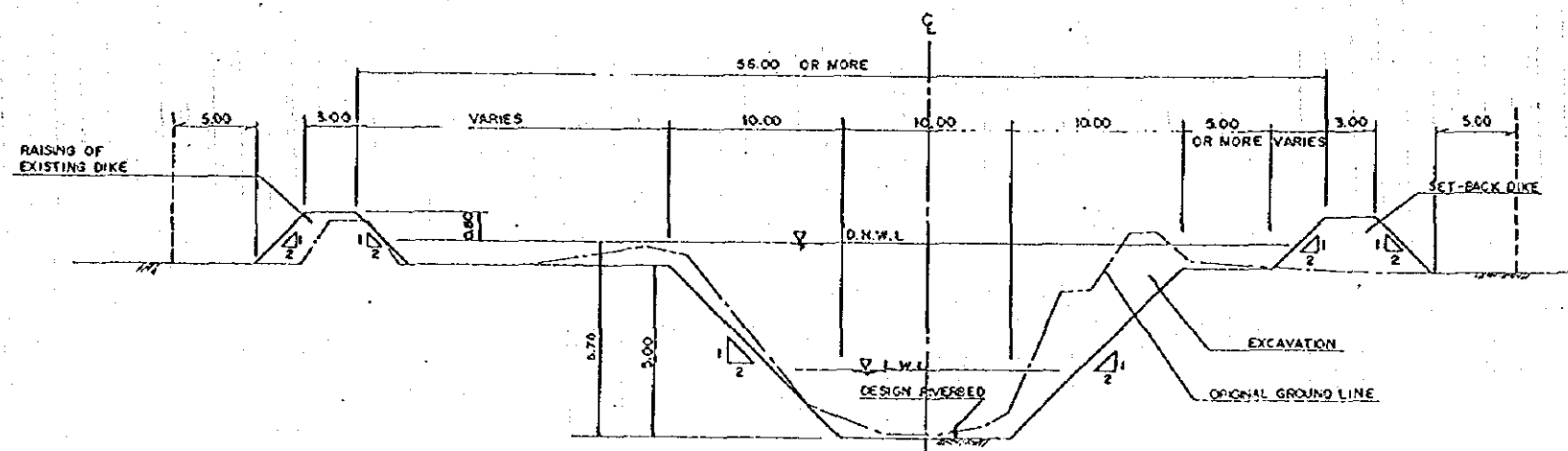
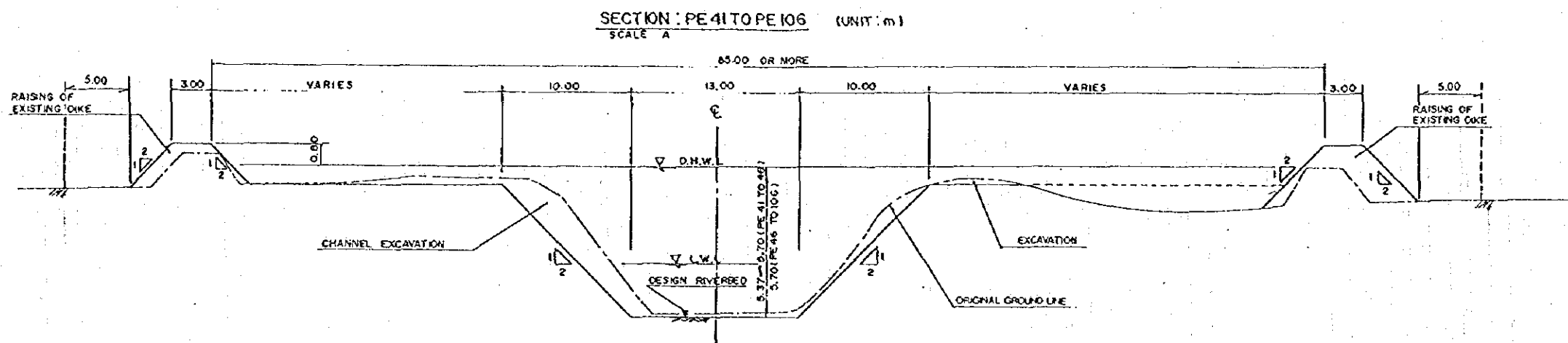
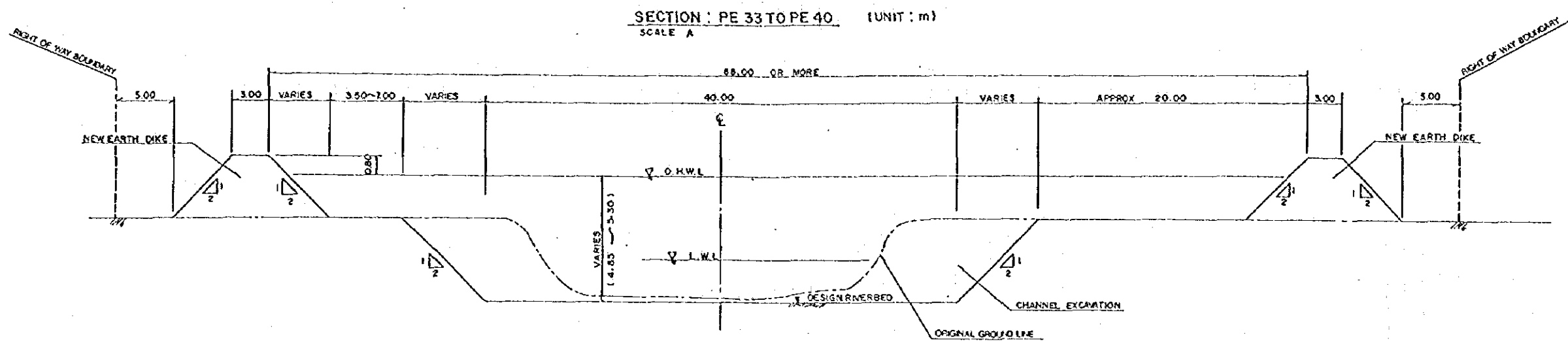
SECTION : PE 17-6.5m TO PE 18+20m (L=20.00) (UNIT:m)



DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

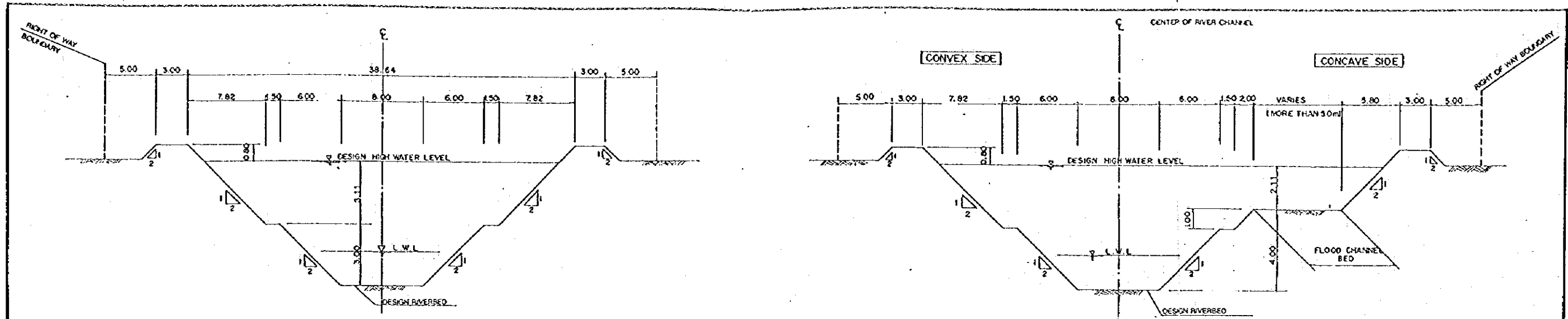
図面 4.1(1/3)
ブルチユット川標準横断面図



DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT

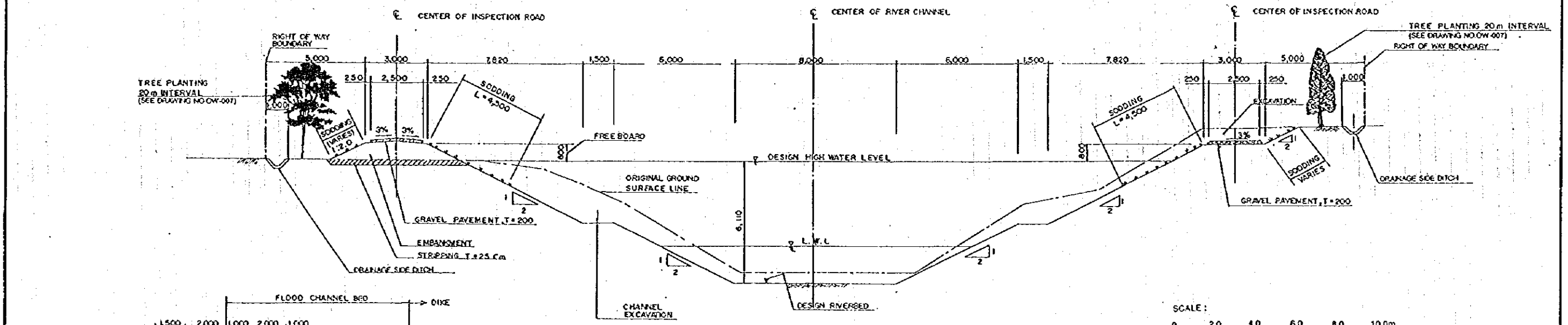
図面 4.1(2/3)
ブルチュット川標準横断面図

JAPAN INTERNATIONAL COOPERATION AGENCY

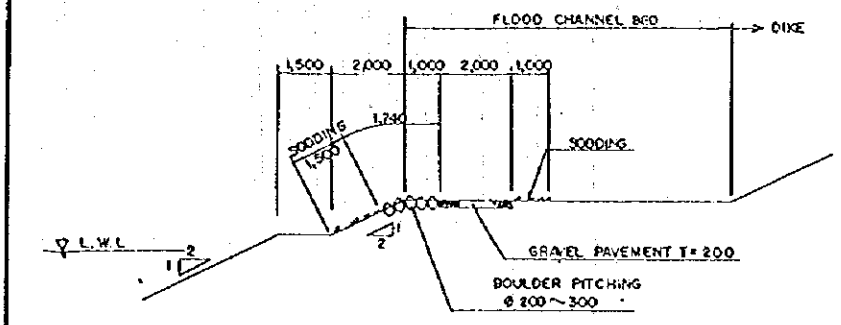
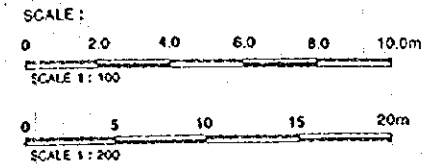


STANDARD CROSS SECTION OF PERCUT RIVER (PE 129+43m TO PE 247+0m) (UNIT:m)
 SCALE VERTICAL 1:100
 HORIZONTAL 1:200

STANDARD CROSS SECTION AT BEND (UNIT:m)
 SCALE VERTICAL 1:100
 HORIZONTAL 1:200

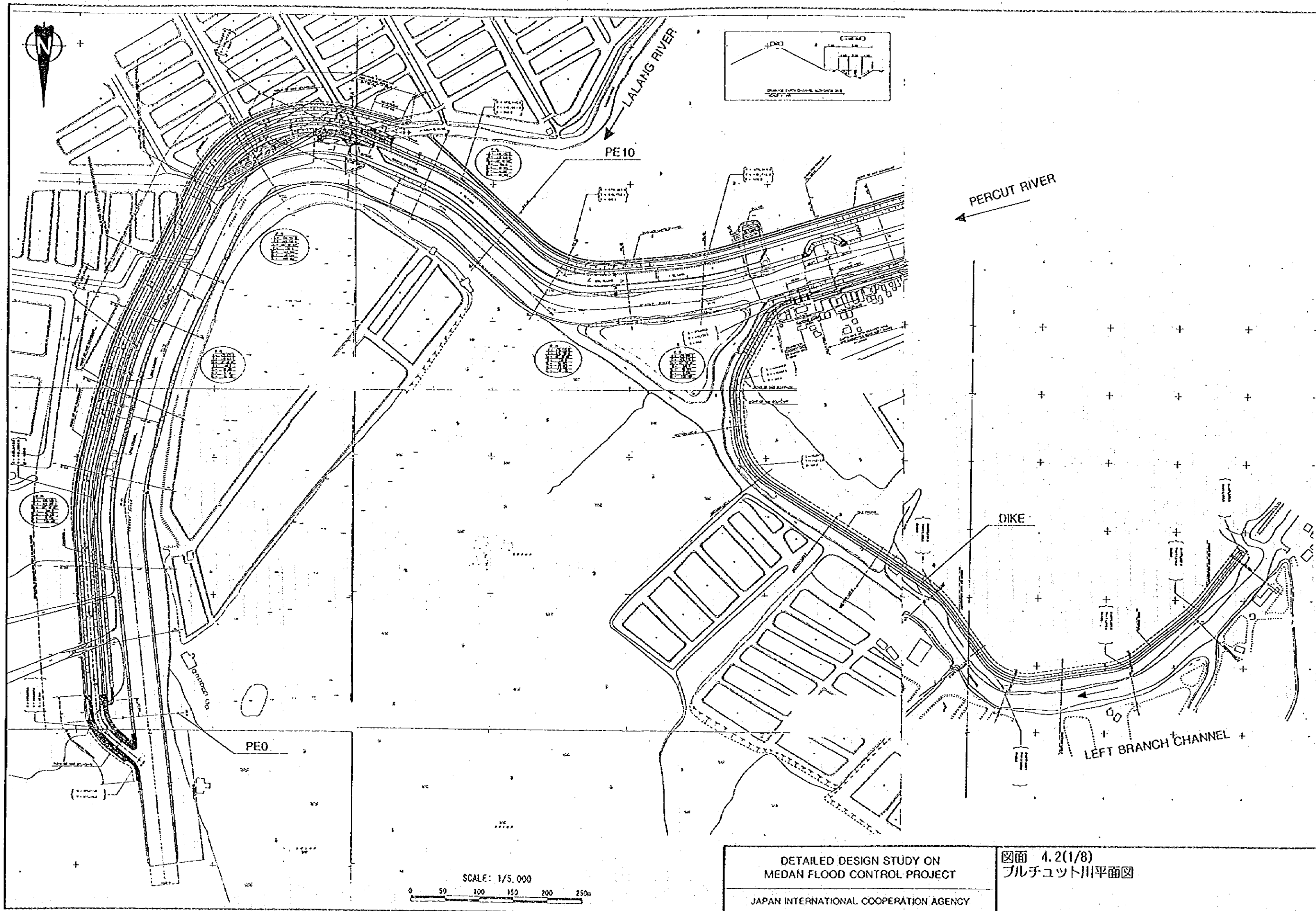


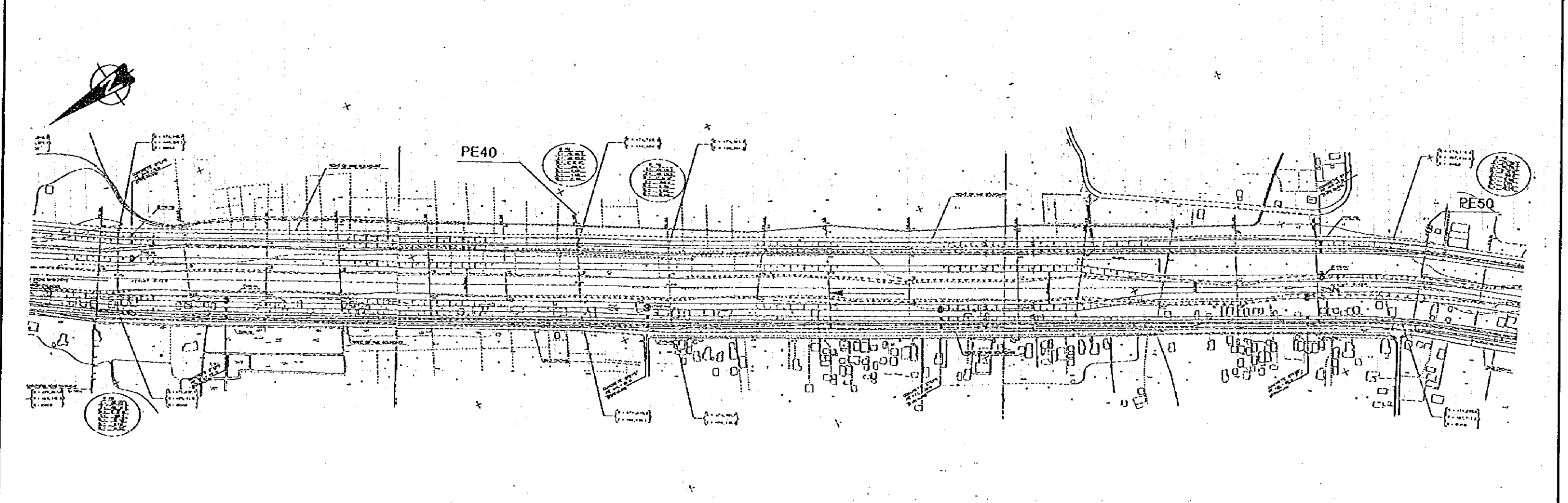
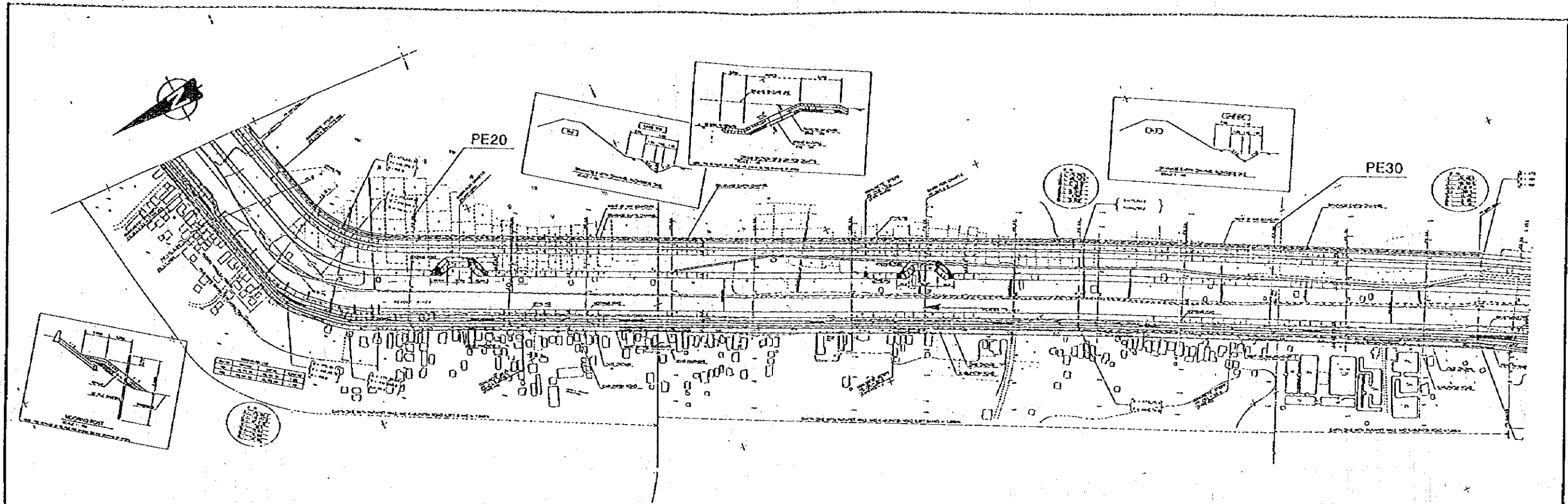
TYPICAL CROSS SECTION OF RIVER CHANNEL AND INSPECTION ROAD (UNIT:mm)
 SCALE 1:100



DETAIL OF WALKWAY ON FLOOD CHANNEL BED
 SCALE 1:100

DETAILED DESIGN STUDY ON MEDAN FLOOD CONTROL PROJECT JAPAN INTERNATIONAL COOPERATION AGENCY	図面 4.1(3/3) ブルチユット川標準横断面図
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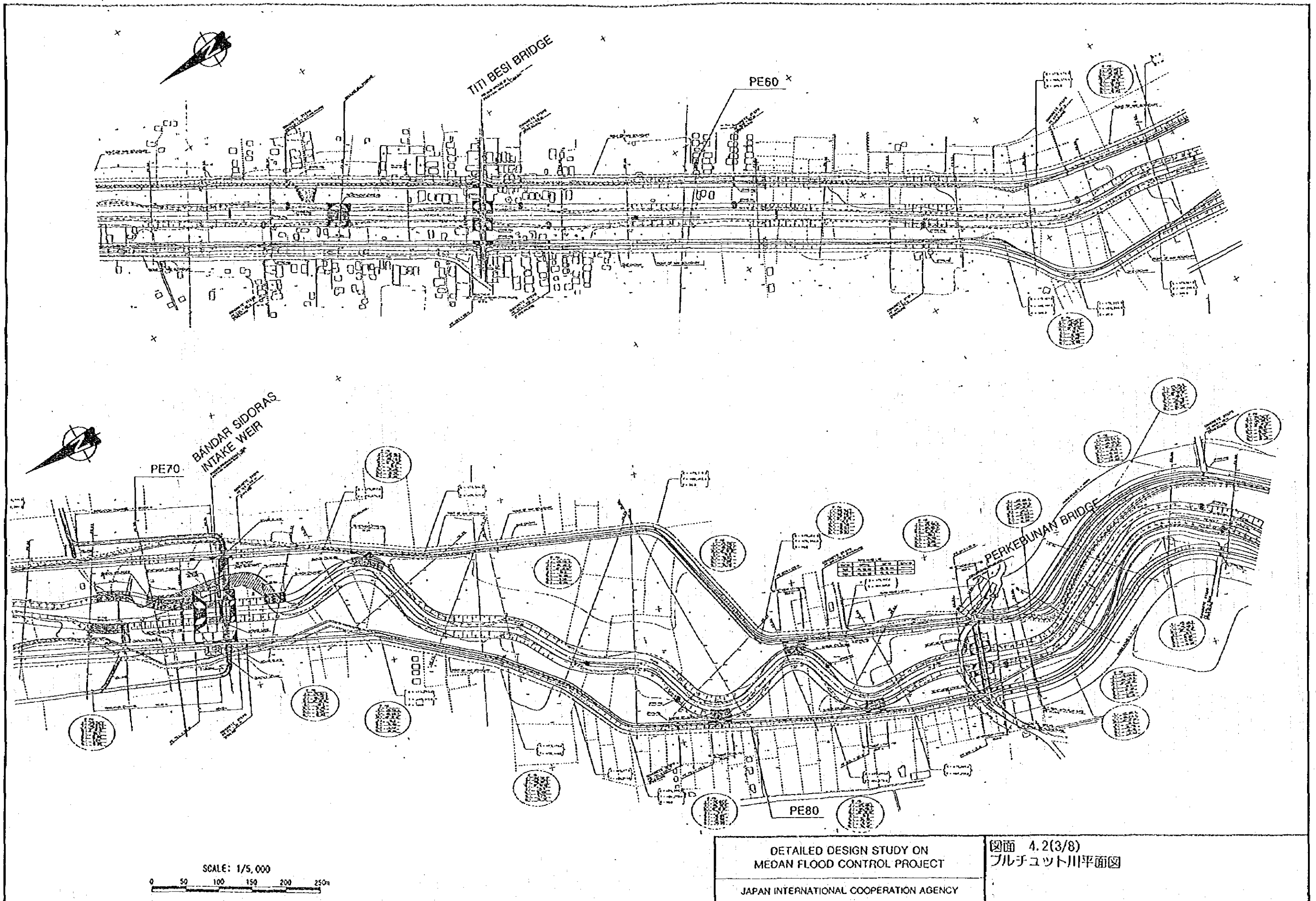




SCALE: 1/5,000
 0 50 100 150 200 250m

DETAILED DESIGN STUDY ON
 MEDAN FLOOD CONTROL PROJECT
 JAPAN INTERNATIONAL COOPERATION AGENCY

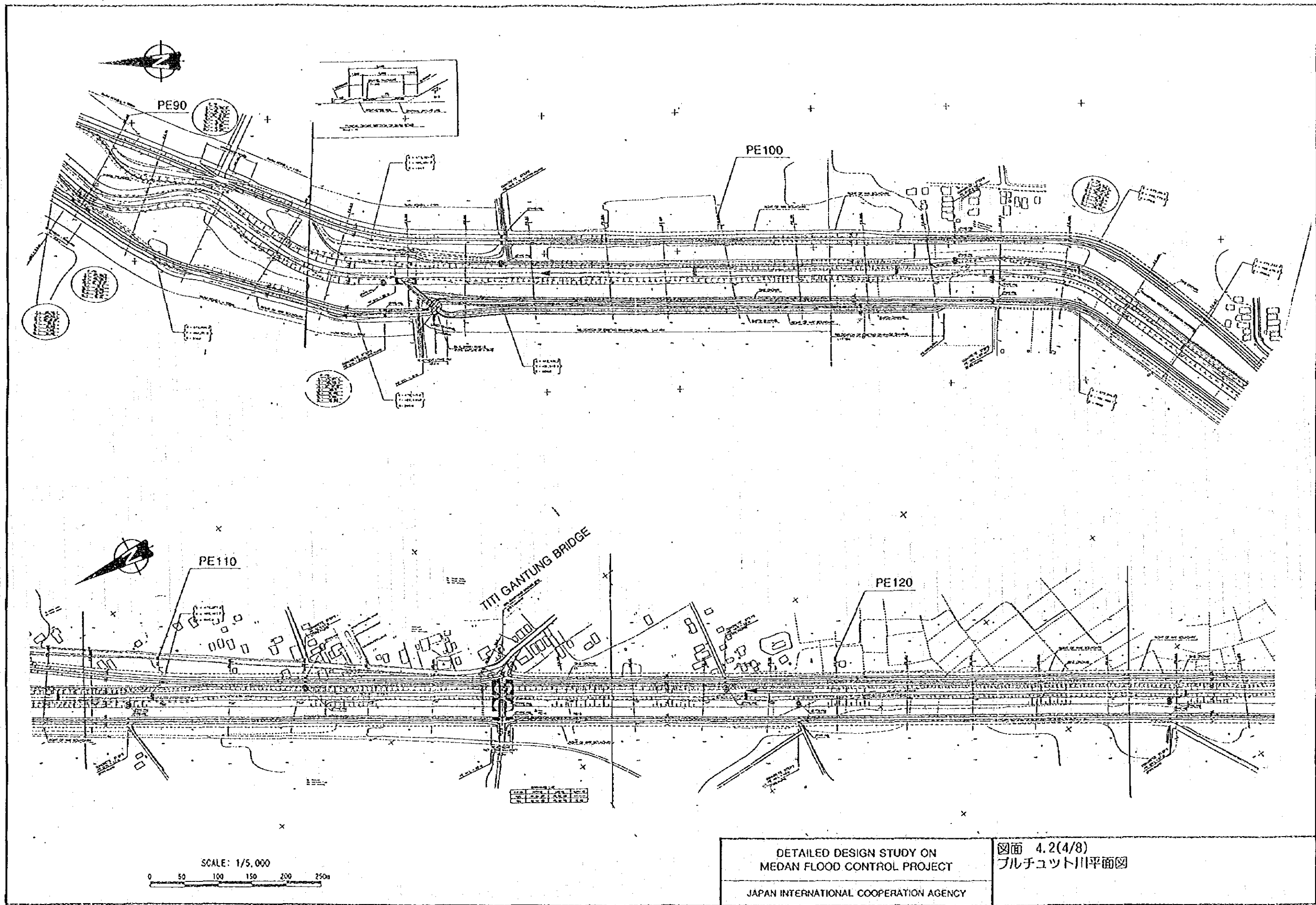
図面 4.2(2/8)
 ブルチユット川平面図



DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT

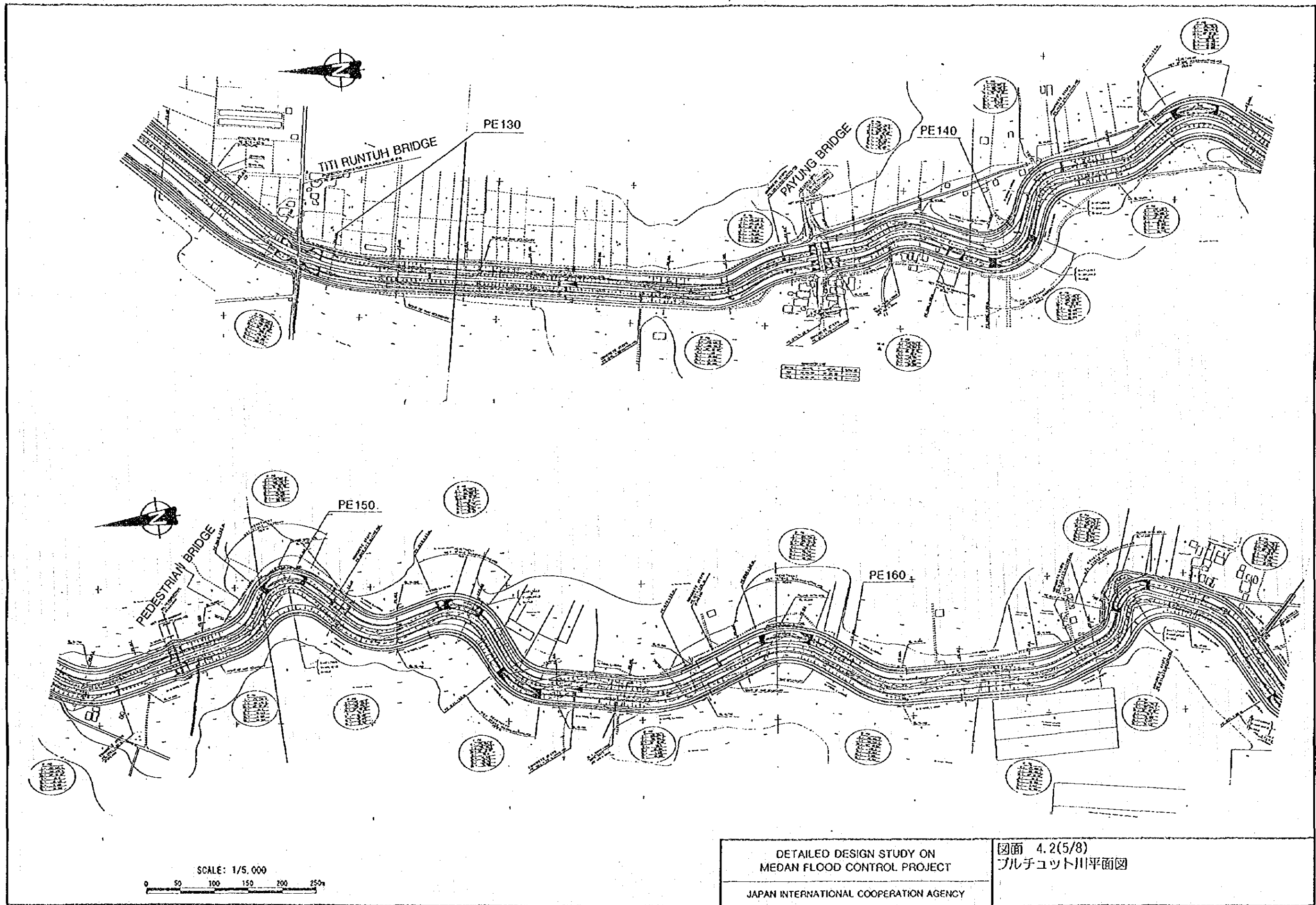
JAPAN INTERNATIONAL COOPERATION AGENCY

図面 4.2(3/8)
ブルチユット川平面図



DETAILED DESIGN STUDY ON
 MEDAN FLOOD CONTROL PROJECT
 JAPAN INTERNATIONAL COOPERATION AGENCY

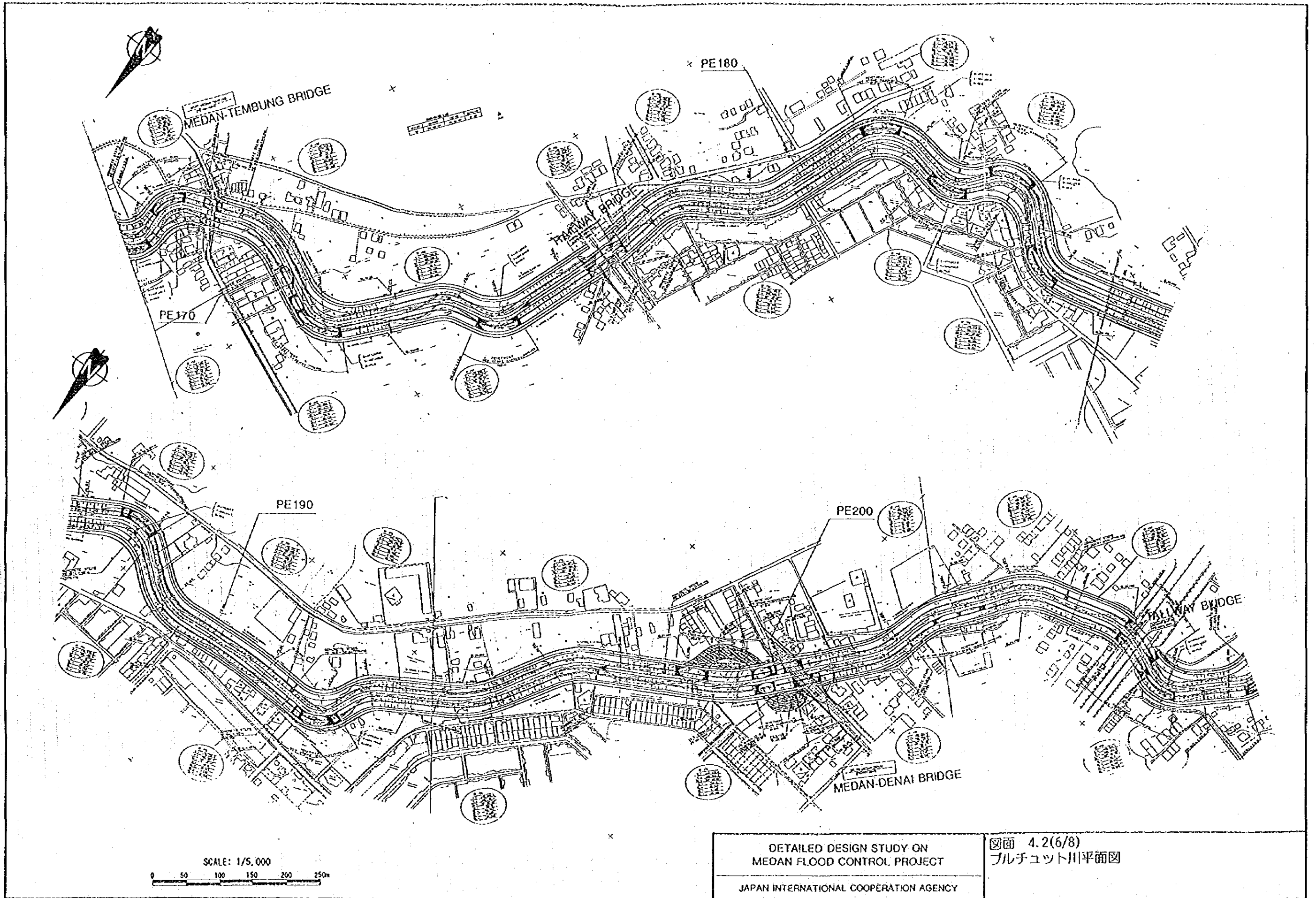
図面 4.2(4/8)
 ブルチュット川平面図



SCALE: 1/5,000
 0 50 100 150 200 250m

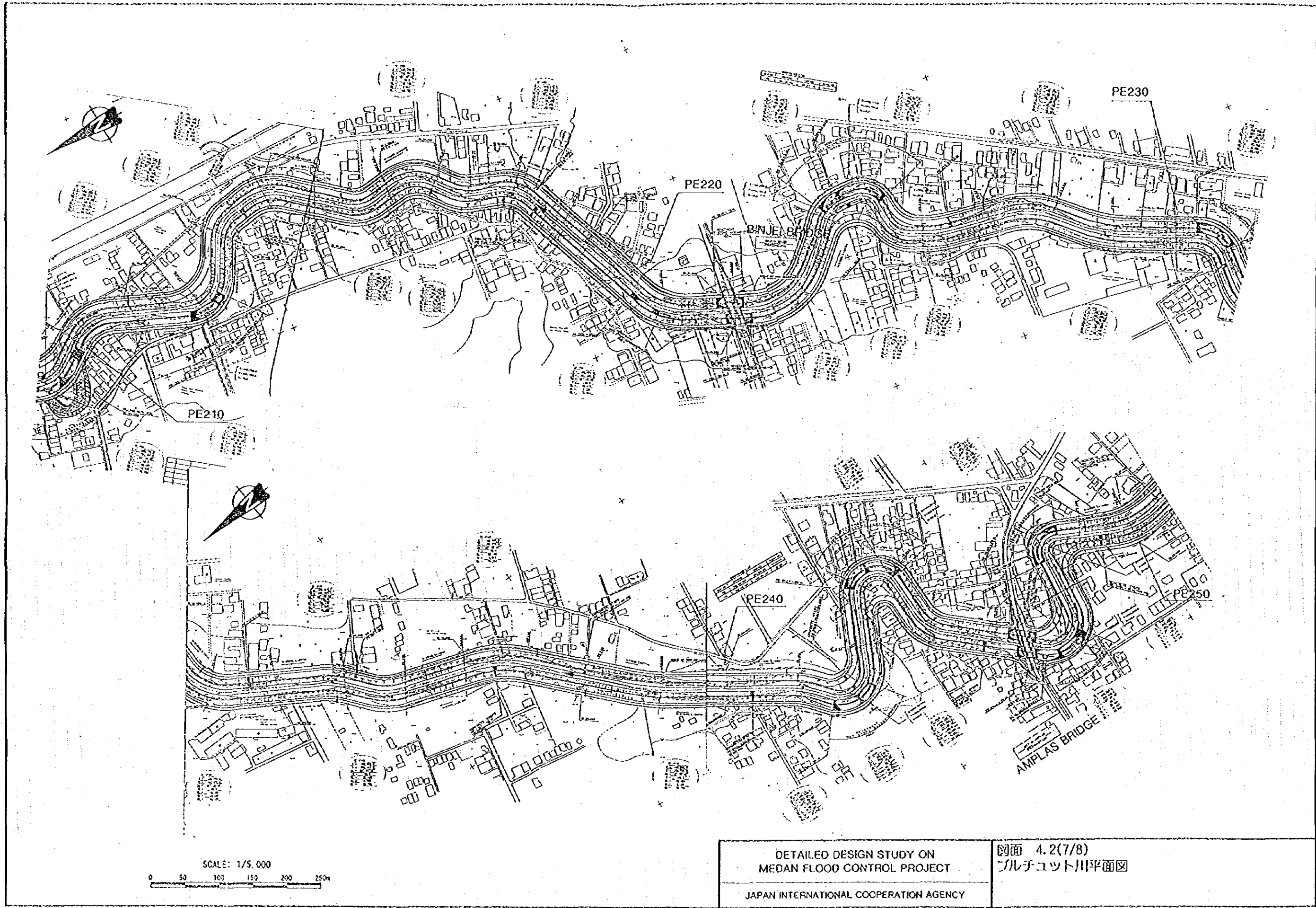
DETAILED DESIGN STUDY ON
 MEDAN FLOOD CONTROL PROJECT
 JAPAN INTERNATIONAL COOPERATION AGENCY

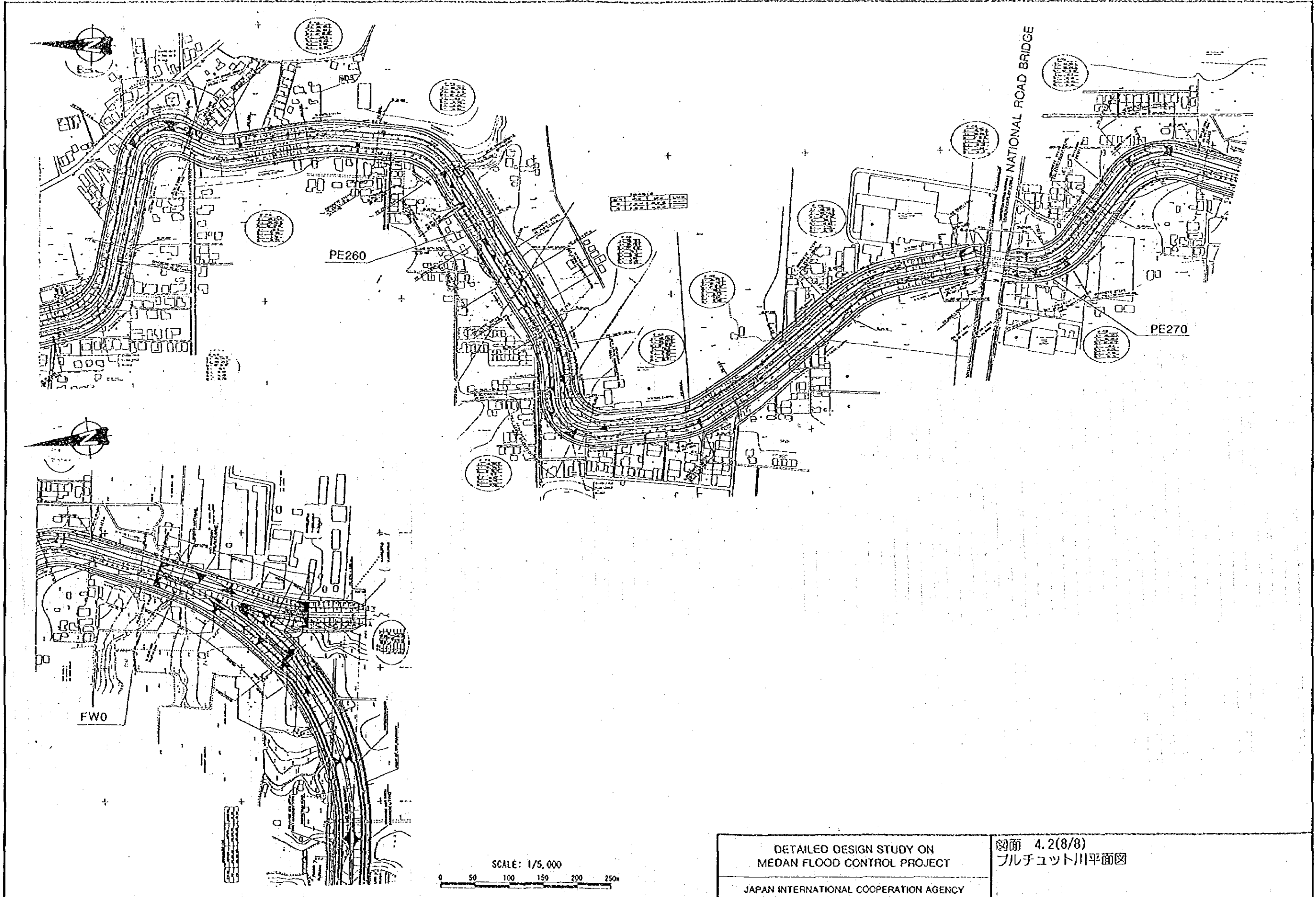
図面 4.2(5/8)
 プルチュット川平面図



DETAILED DESIGN STUDY ON
 MEDAN FLOOD CONTROL PROJECT
 JAPAN INTERNATIONAL COOPERATION AGENCY

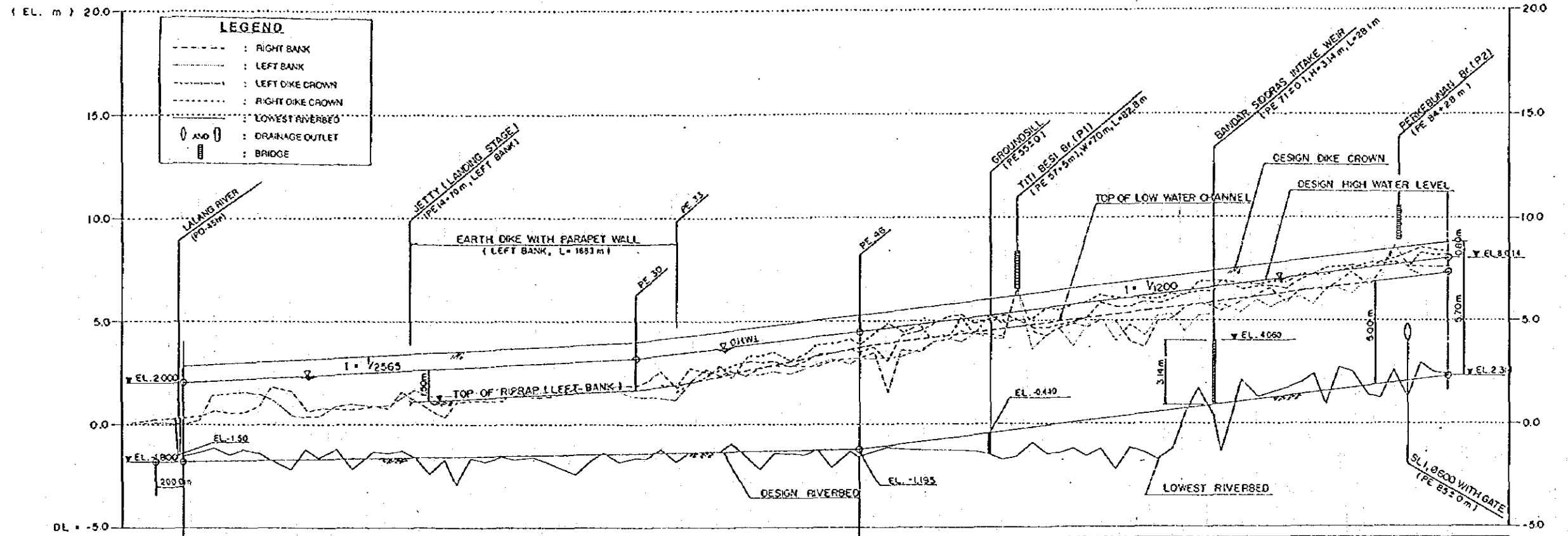
図面 4.2(6/8)
 ブルチユット川平面図



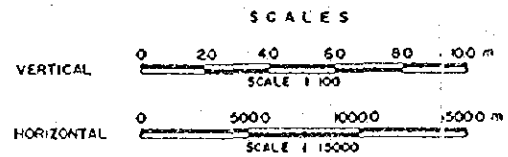


DETAILED DESIGN STUDY ON
 MEDAN FLOOD CONTROL PROJECT
 JAPAN INTERNATIONAL COOPERATION AGENCY

図面 4.2(8/8)
 ブルチユット川平面図

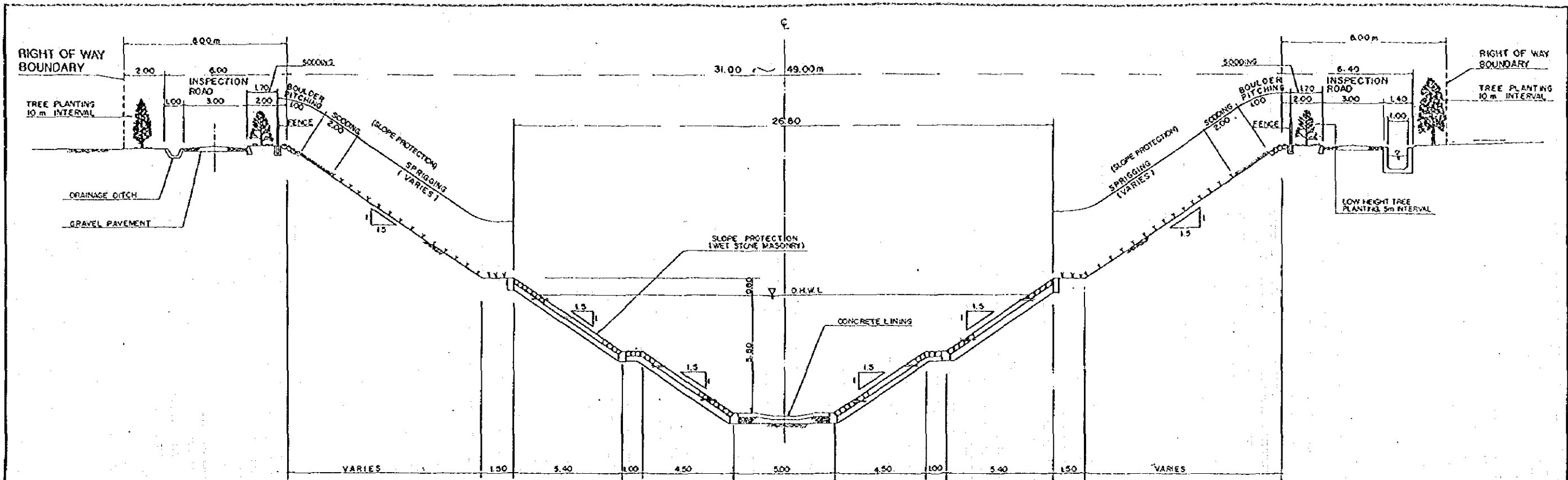


GRADIENT OF DESIGN RIVERBED		1: 1/8000		1: 1/200	
DESIGN ELEVATION	DIKE CROWN				
	HIGH WATER LEVEL				
EXISTING ELEVATION	RIVERBED	RIGHT GROUND	LEFT GROUND	LOWEST RIVERBED	ACCUMULATED (m)
					PARTIAL (m)
STATION NO.					
PE0	2.800	0.30	0.04	-1.47	0.00
PE1	2.847	0.45	0.22	-1.34	120.00
PE2	2.882	0.84	1.40	-1.17	212.00
PE3	2.928	0.56	1.32	-1.53	327.50
PE4	2.971	0.57	1.35	-1.26	436.50
PE5	3.018	0.89	1.43	-1.39	557.50
PE6	3.049	1.82	1.82	-1.75	639.50
PE7	3.110	0.60	0.46	-2.18	794.50
PE8	3.147	0.67	0.36	-1.19	950.50
PE9	3.166	0.73	0.43	-1.66	989.00
PE10	3.231	0.74	0.87	-1.18	1116.50
PE11	3.274	0.74	0.98	-2.15	1215.50
PE12	3.331	0.93	0.91	-1.34	1363.50
PE13	3.373	0.80	0.94	-1.42	1488.50
PE14	3.409	1.32	1.30	-1.27	1603.50
PE15	3.432	1.20	1.64	-1.33	1671.50
PE16	3.489	0.74	1.36	-2.43	1763.50
PE17	3.530	0.37	1.38	-1.65	1871.50
PE18	3.567	1.08	1.37	-2.91	1965.00
PE19	3.602	1.17	1.62	-1.62	2055.00
PE20	3.639	1.12	1.59	-1.79	2133.50
PE21	3.687	1.10	1.73	-1.54	2273.50
PE22	3.726	1.60	1.43	-1.73	2372.50
PE23	3.767	1.35	1.48	-1.61	2479.00
PE24	3.807	1.34	1.58	-1.00	2581.00
PE25	3.855	1.47	1.61	-2.16	2704.50
PE26	3.890	1.75	1.51	-2.40	2795.50
PE27	3.932	1.69	1.56	-1.67	2902.50
PE28	3.973	1.59	1.72	-1.35	3006.50
PE29	4.009	1.59	1.59	-1.82	3107.50
PE30	4.055	1.30	1.30	-1.59	3218.00
PE31	4.125	2.12	1.34	-1.34	3314.00
PE32	4.202	2.57	1.28	-1.20	3408.00
PE33	4.286	2.78	1.22	-1.82	3514.00
PE34	4.367	2.09	1.22	-1.36	3622.50
PE35	4.456	2.83	2.26	-1.32	3738.50
PE36	4.530	2.37	2.32	-1.28	3833.50
PE37	4.602	2.55	2.49	-0.91	3927.50
PE38	4.687	2.37	2.46	-1.58	4037.00
PE39	4.758	2.68	2.46	-2.19	4130.00
PE40	4.830	2.55	2.55	-1.40	4223.00
PE41	4.916	2.46	2.46	-1.41	4333.50
PE42	4.998	2.83	2.73	-1.44	4441.50
PE43	5.089	2.90	2.89	-1.19	4532.50
PE44	5.145	3.15	3.15	-2.12	4631.00
PE45	5.240	3.16	3.16	-1.31	4763.50
PE46	5.305	3.20	3.16	-1.56	4838.50
PE47	5.389	3.45	3.45	-1.11	4939.50
PE48	5.471	3.62	3.62	-1.82	5037.50
PE49	5.556	3.55	3.72	-1.20	5139.50
PE50	5.656	3.88	3.88	-1.18	5239.50
PE51	5.720	4.09	4.09	-1.21	5336.00
PE52	5.828	4.45	4.22	-1.41	5466.00
PE53	5.900	4.69	4.66	-1.38	5532.00
PE54	5.978	4.36	4.36	-1.27	5646.50
PE55	6.061	4.31	4.18	-1.37	5746.00
PE56	6.147	4.21	4.13	-1.63	5849.50
PE57	6.236	4.29	4.12	-1.54	5953.50
PE58	6.338	4.45	3.68	-0.90	6078.50
PE59	6.420	4.26	4.31	-1.42	6177.00
PE60	6.490	4.69	4.66	-1.38	6270.00
PE61	6.583	4.98	3.72	-1.18	6371.50
PE62	6.662	4.71	4.80	-1.16	6467.00
PE63	6.745	5.02	5.17	-1.18	6566.50
PE64	6.831	4.01	4.01	-2.30	6669.50
PE65	6.921	4.04	4.77	-1.20	6773.50
PE66	7.005	3.77	4.22	-1.41	6878.50
PE67	7.087	5.02	5.21	-1.03	6976.50
PE68	7.169	3.06	5.33	-1.18	7075.00
PE69	7.251	3.52	4.31	-0.22	7173.50
PE70	7.335	3.78	6.23	0.68	7274.00
PE71	7.418	3.72	5.72	0.40	7374.00
PE72	7.460	5.50	5.84	-1.39	7424.50
PE73	7.585	5.43	5.43	2.14	7524.50
PE74	7.677	6.25	6.06	1.32	7684.50
PE75	7.760	6.34	6.65	1.48	7784.00
PE76	7.844	6.03	6.03	1.75	7885.50
PE77	7.927	6.48	6.13	1.94	7984.50
PE78	8.008	6.36	5.78	2.41	8081.50
PE79	8.081	6.51	6.46	1.89	8181.50
PE80	8.155	6.88	6.55	2.71	8281.50
PE81	8.239	6.36	6.36	2.65	8359.00
PE82	8.323	6.70	7.08	1.37	8459.50
PE83	8.402	6.92	6.92	1.28	8554.50
PE84	8.483	6.60	6.60	2.67	8651.50
PE85	8.566	7.49	7.49	1.24	8751.50
PE86	8.645	7.67	7.24	3.00	8846.00
PE87	8.727	7.98	7.13	2.48	8944.50
PE88	8.814	7.83	7.51	2.42	9049.50

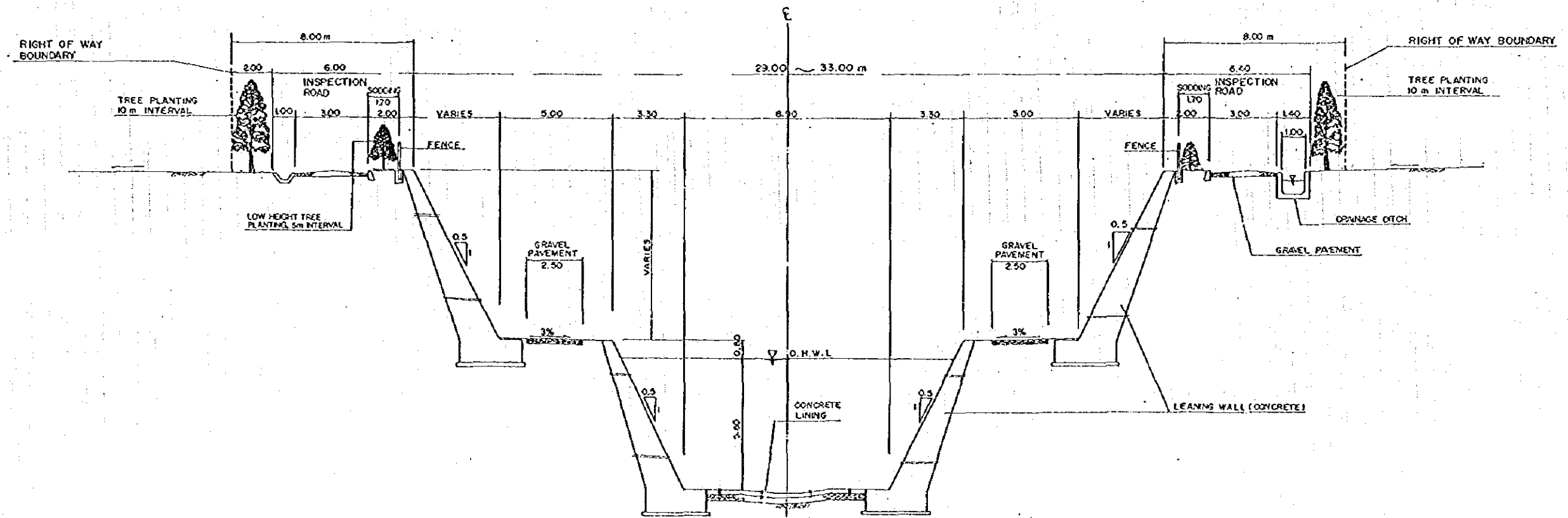


LONGITUDINAL PROFILE OF PERCUT RIVER (1/3)

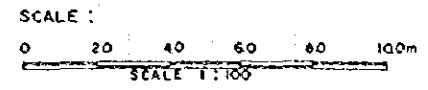
DETAILED DESIGN STUDY ON
 MEDAN FLOOD CONTROL PROJECT
 図面 4.3(1/3)
 プルチユット川計画縦断面図
 JAPAN INTERNATIONAL COOPERATION AGENCY



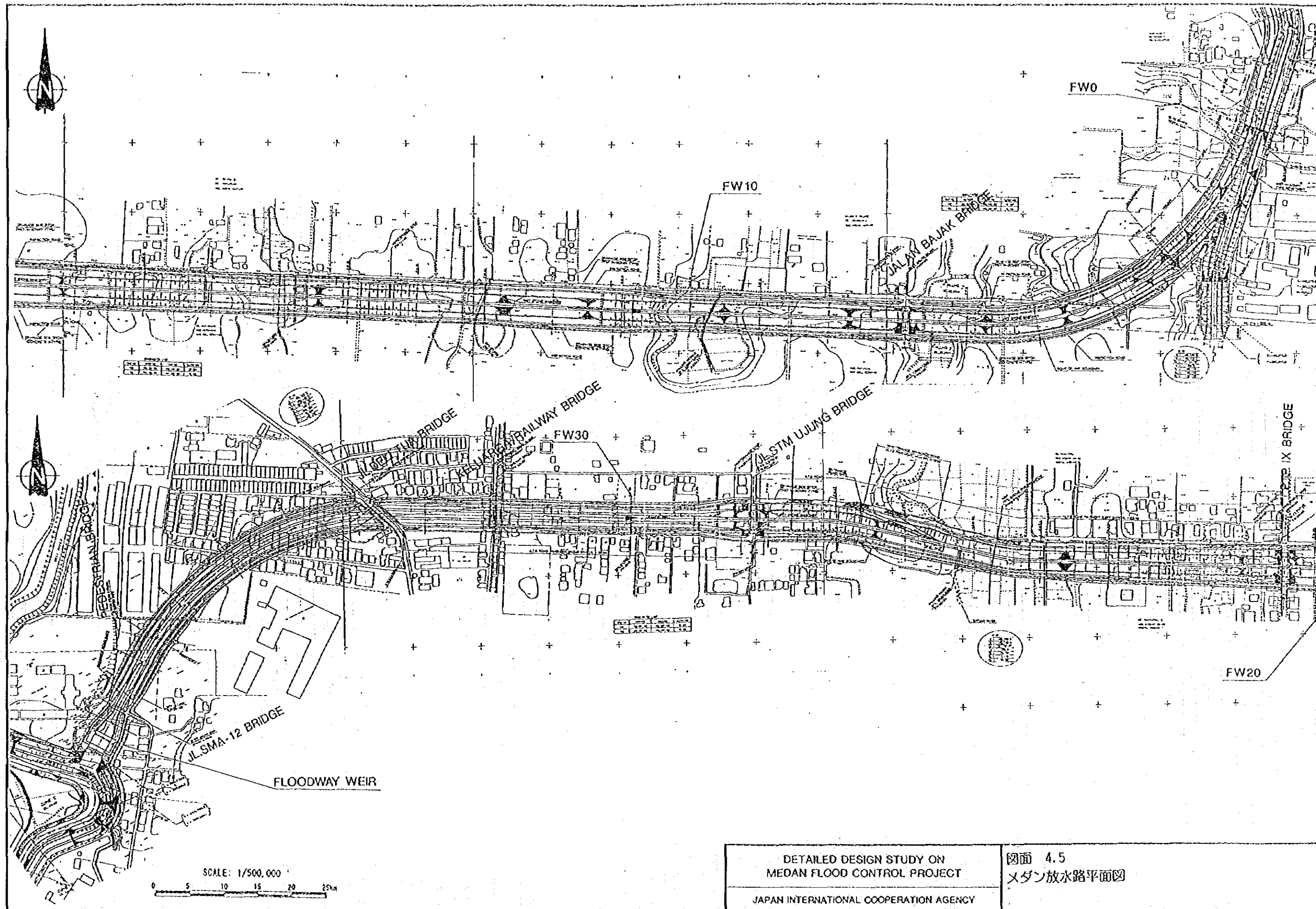
STANDARD CROSS SECTION OF FLOODWAY (CHANNEL TYPE - I) (UNIT: m)



STANDARD CROSS SECTION OF FLOODWAY (CHANNEL TYPE - II) (UNIT: m)

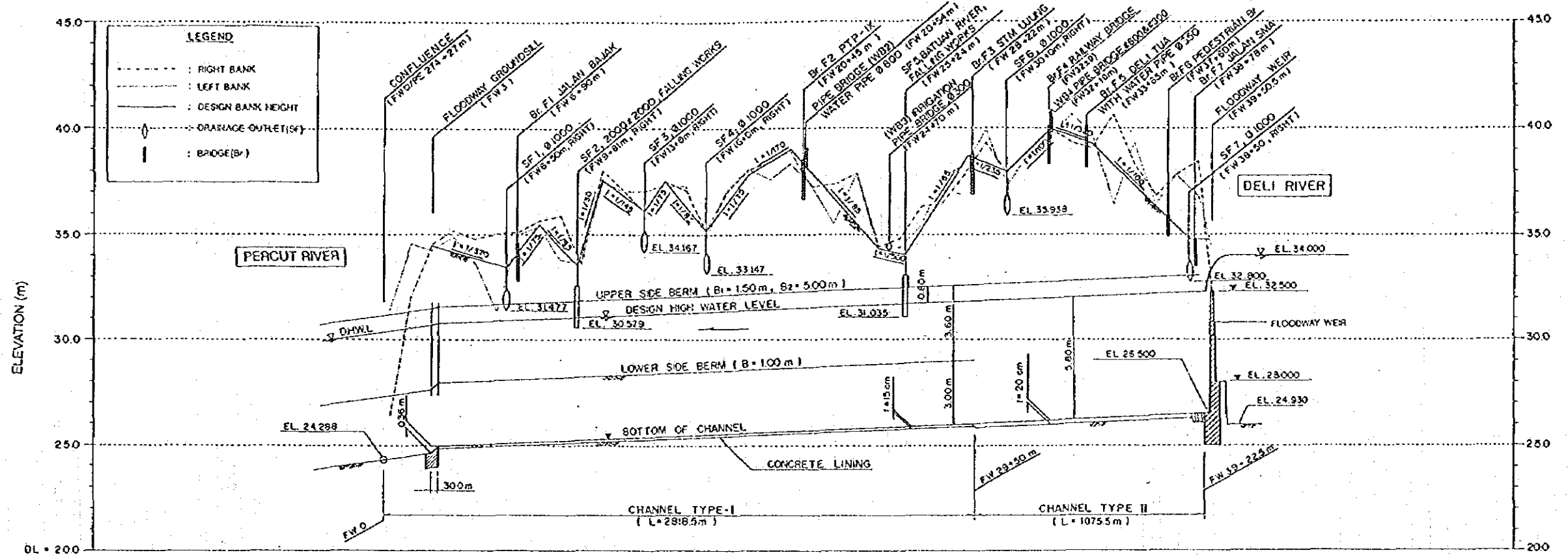


<p>DETAILED DESIGN STUDY ON MEDAN FLOOD CONTROL PROJECT</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>図面 4.4 メダン放水路標準横断面図</p>
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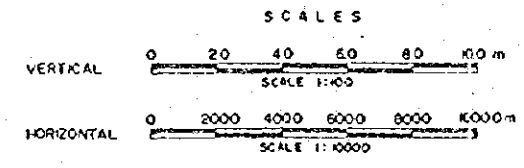
DETAILED DESIGN STUDY ON
 MEDAN FLOOD CONTROL PROJECT
 JAPAN INTERNATIONAL COOPERATION AGENCY

図面 4.5
 メダン放水路平面図



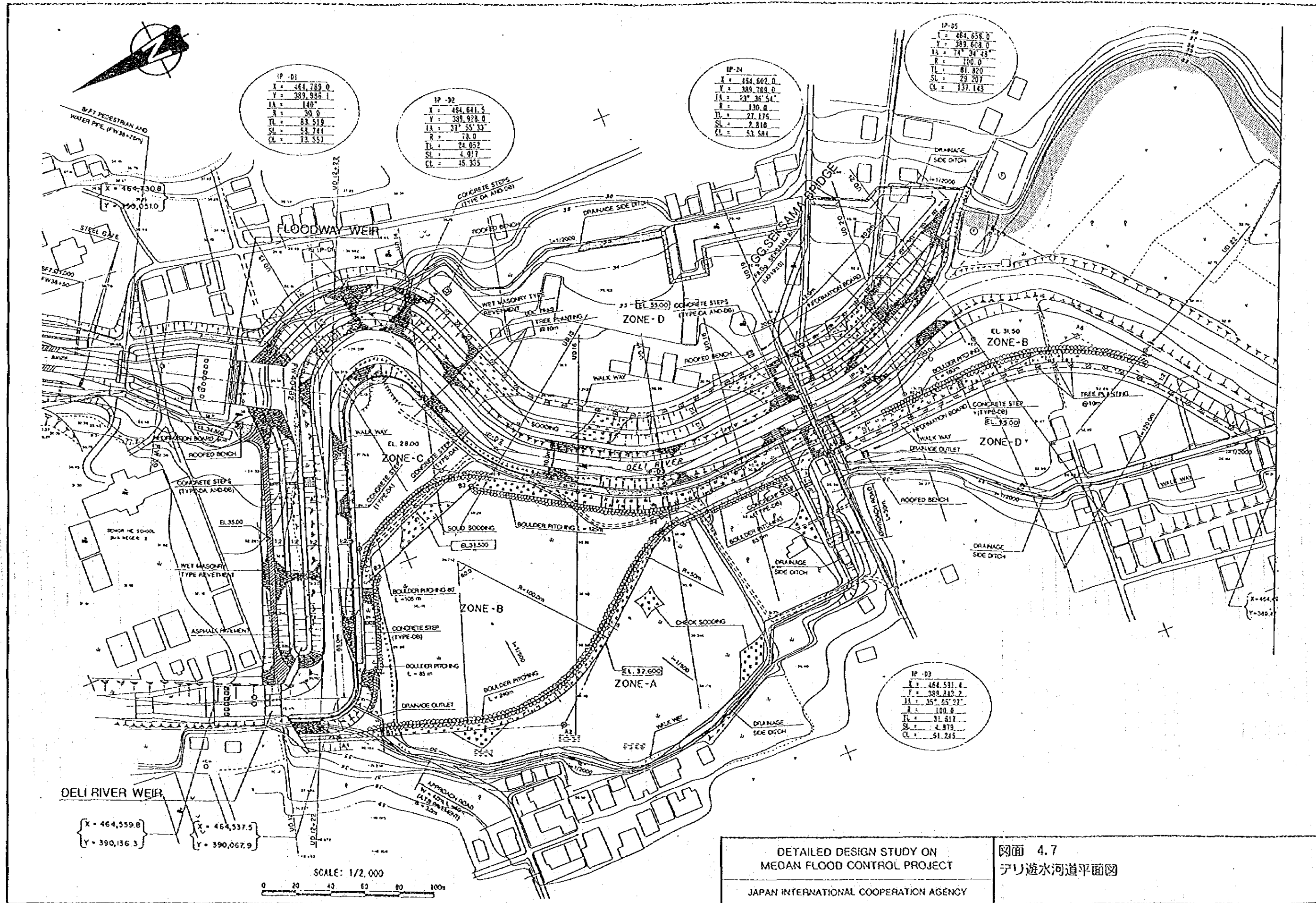
GRADIENT OF DESIGN CHANNEL BED		$1 : 1/825$		$1 : 1/2350$		
DESIGN ELEVATION	CHANNEL BANK					
	UPPER SIDE BERM	31.165	31.165	31.165	31.165	31.165
	HIGH WATER LEVEL	30.365	30.365	30.365	30.365	30.365
	BOTTOM OF CHANNEL	24.255	24.255	24.255	24.255	24.255
EXISTING ELEVATION	RIGHT GROUND	24.255	24.255	24.255	24.255	24.255
	LEFT GROUND	30.000	30.000	30.000	30.000	30.000
DISTANCE	ACCUMULATED (m)	27.0	27.0	27.0	27.0	27.0
	PARTIAL (m)	27.0	27.0	27.0	27.0	27.0
STATION NO.		FW 0	FW 1	FW 2	FW 3	FW 4

LONGITUDINAL PROFILE OF FLOODWAY



DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

図面 4.6
メダン放水路計画縦断面図



IP-D1
 X = 464,789.0
 Y = 389,985.1
 IA = 140°
 R = 30.0
 TL = 83.519
 SL = 58.744
 CL = 73.557

IP-D2
 X = 454,641.5
 Y = 389,928.0
 IA = 37° 55' 33"
 R = 70.0
 TL = 24.052
 SL = 4.017
 CL = 15.335

IP-D4
 X = 454,602.0
 Y = 389,709.0
 IA = 23° 36' 54"
 R = 130.0
 TL = 27.176
 SL = 2.810
 CL = 53.581

IP-D5
 X = 464,656.0
 Y = 389,608.0
 IA = 78° 34' 48"
 R = 100.0
 TL = 61.320
 SL = 29.207
 CL = 137.143

IP-D3
 X = 464,531.4
 Y = 389,842.2
 IA = 25° 05' 27"
 R = 100.0
 TL = 31.612
 SL = 4.879
 CL = 51.215

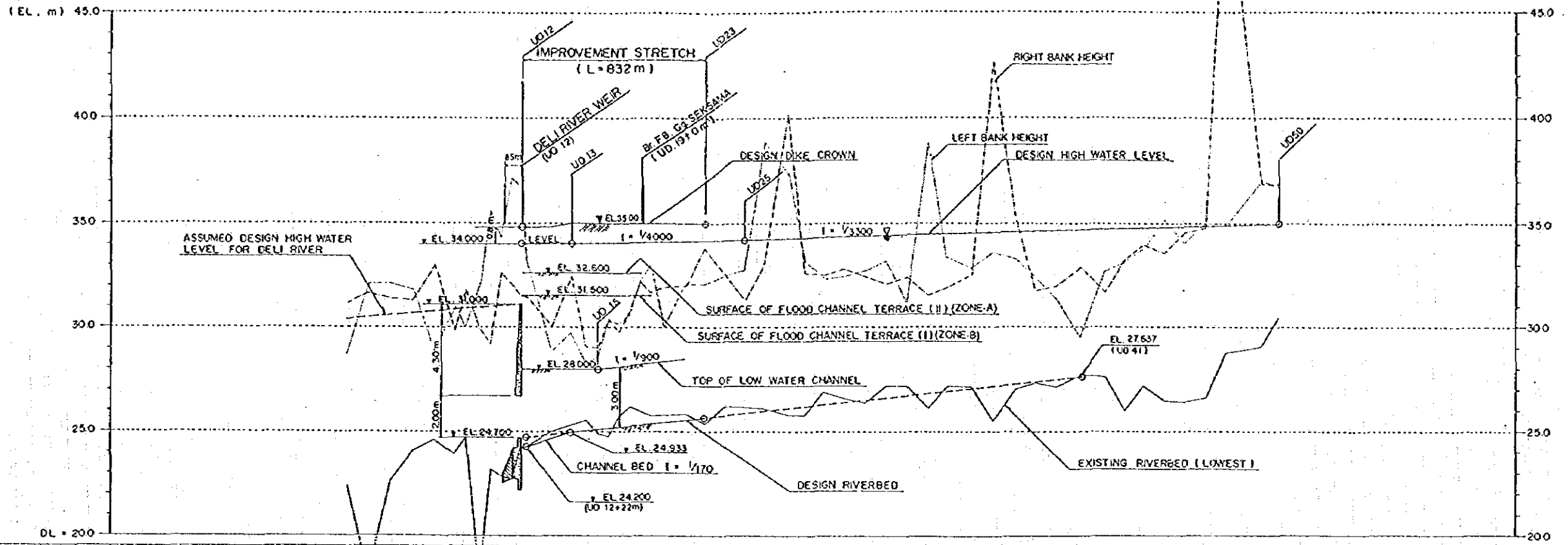
X = 464,559.8
 Y = 390,136.3

X = 464,537.5
 Y = 390,067.9

SCALE: 1/2,000
 0 20 40 60 80 100m

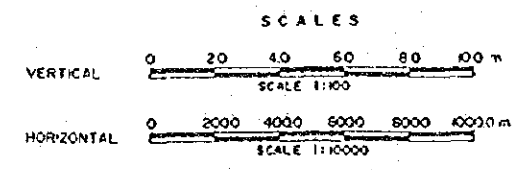
DETAILED DESIGN STUDY ON
 MEDIAN FLOOD CONTROL PROJECT
 JAPAN INTERNATIONAL COOPERATION AGENCY

図面 4.7
 デリ遊水河道平面図

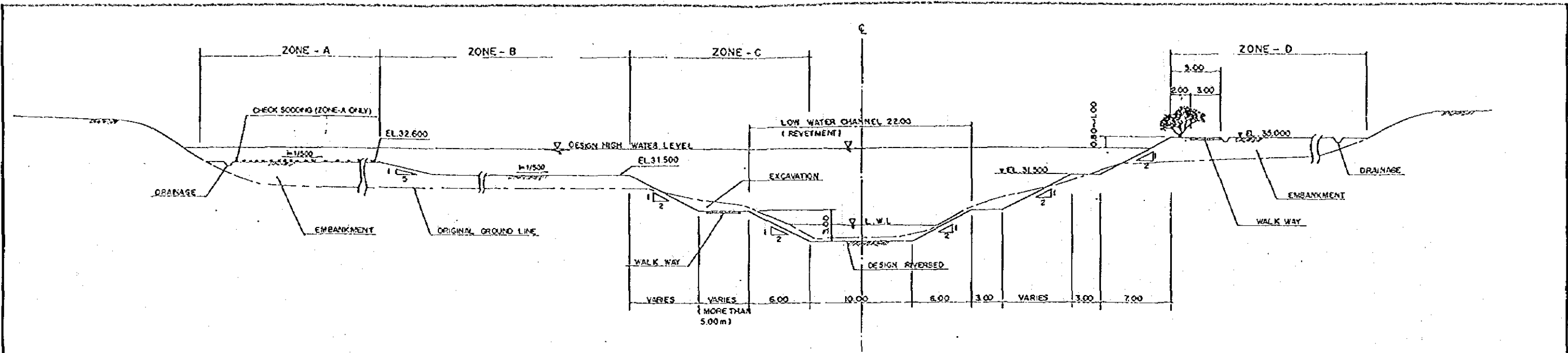


GRADIENT OF DESIGN RIVERBED		I = 1/900, L = 2643 m	
DESIGN ELEVATION	DIKE CROWN	ELEVATION (m)	
	HIGH WATER LEVEL	DESIGN RIVERBED	EXISTING RIVERBED (LOWEST)
EXISTING ELEVATION	RIGHT GROUND	ELEVATION (m)	
	LEFT GROUND	ELEVATION (m)	
DISTANCE	ACCUMULATED (m)	ELEVATION (m)	
	PARTIAL (m)	ELEVATION (m)	
STATION NO.			
UD 1	00.0	22.375	28.608
UD 2	97.5	18.155	32.084
UD 3	104.0	22.660	32.114
UD 4	111.0	312.5	31.796
UD 5	103.0	413.5	28.059
UD 6	103.0	518.5	23.867
UD 7	53.0	571.5	24.664
UD 8	70.0	641.5	18.023
UD 9	48.5	690.0	23.146
UD 10	50.3	740.3	22.660
UD 11	50.6	791.0	22.750
UD 12	27.0	867.0	24.282
UD 13	110.0	977.0	25.032
UD 14	65.0	1077.0	25.280
UD 15	56.0	1158.0	24.872
UD 16	51.5	1300.0	22.833
UD 17	42.5	1347.5	26.175
UD 18	49.3	1397.0	25.949
UD 19	34.0	1451.0	23.758
UD 20	52.5	1503.5	23.565
UD 21	101.5	1603.0	25.066
UD 22	94.0	1693.0	25.400
UD 23	99.5	1779.5	26.215
UD 24	99.5	1877.0	26.192
UD 25	101.0	1968.0	26.136
UD 26	116.0	2104.0	25.844
UD 27	79.0	2183.0	25.787
UD 28	89.0	2272.0	26.897
UD 29	59.0	2371.0	26.645
UD 30	106.0	2477.0	26.412
UD 31	98.0	2575.0	27.214
UD 32	96.0	2671.0	27.205
UD 33	103.0	2872.0	27.209
UD 34	104.0	2976.0	27.161
UD 35	100.0	3076.0	25.490
UD 36	117.0	3193.0	27.058
UD 37	94.0	3287.0	27.303
UD 38	96.0	3383.0	27.132
UD 39	127.0	3510.0	27.753
UD 40	115.0	3623.0	27.616
UD 41	95.0	3720.0	26.122
UD 42	90.0	3810.0	27.194
UD 43	98.0	3908.0	26.486
UD 44	99.0	4007.0	26.436
UD 45	97.0	4104.0	26.656
UD 46	93.0	4197.0	28.788
UD 47	171.0	4368.0	25.122
UD 48	90.0	4458.0	30.324
UD 49			36.894
UD 50			34.982

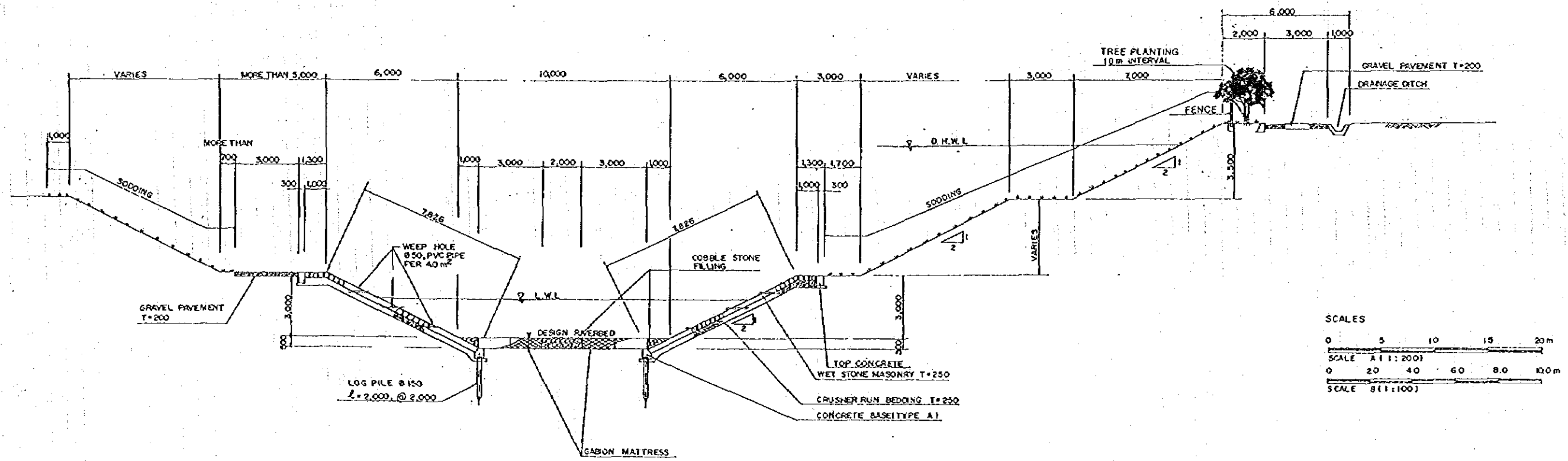
LONGITUDINAL PROFILE OF DELI RIVER RETARDING CHANNEL



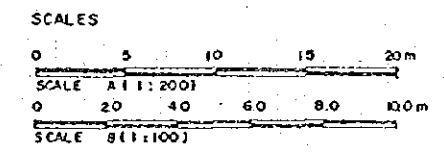
<p>DETAILED DESIGN STUDY ON MEDAN FLOOD CONTROL PROJECT</p>	<p>図面 4.8 デリ遊水河道計画縦断図</p>
<p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	



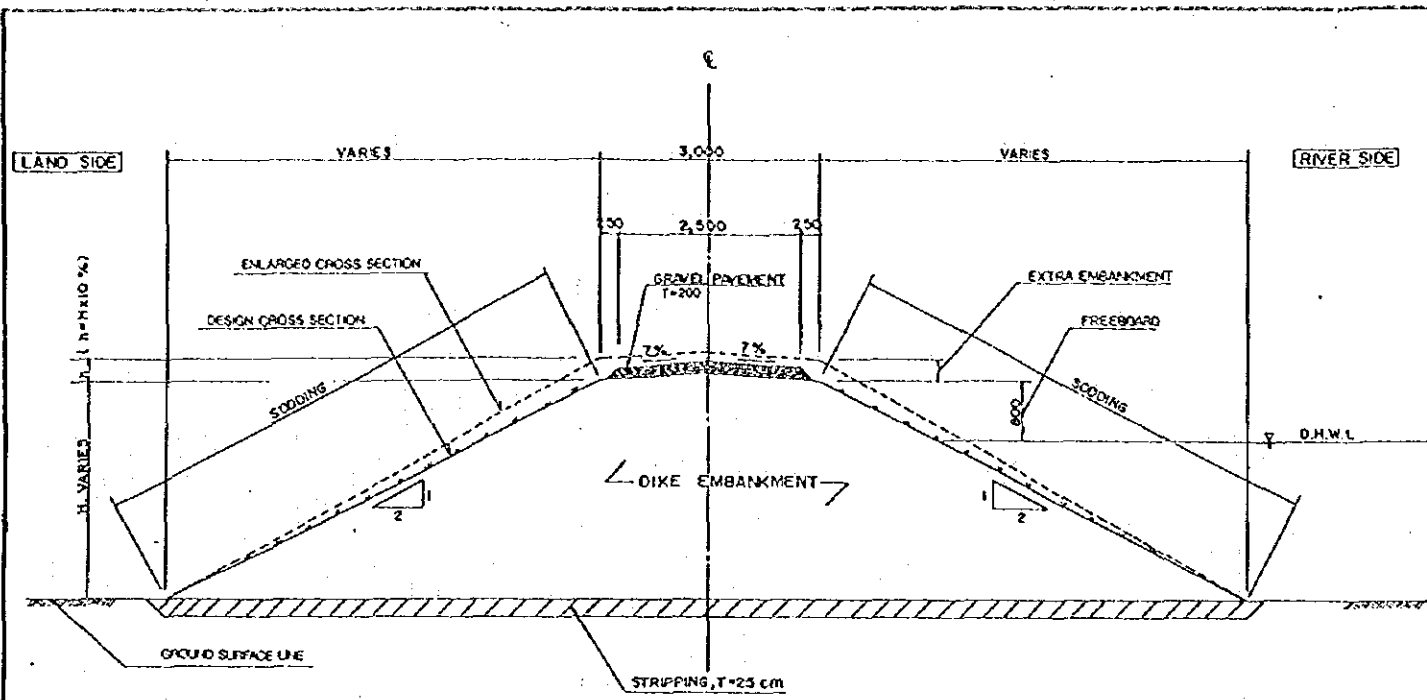
SCHMATIC CROSS SECTION OF RETARDING CHANNEL IMPROVEMENT AND UTILIZATION (UNIT : m)
SCALE A



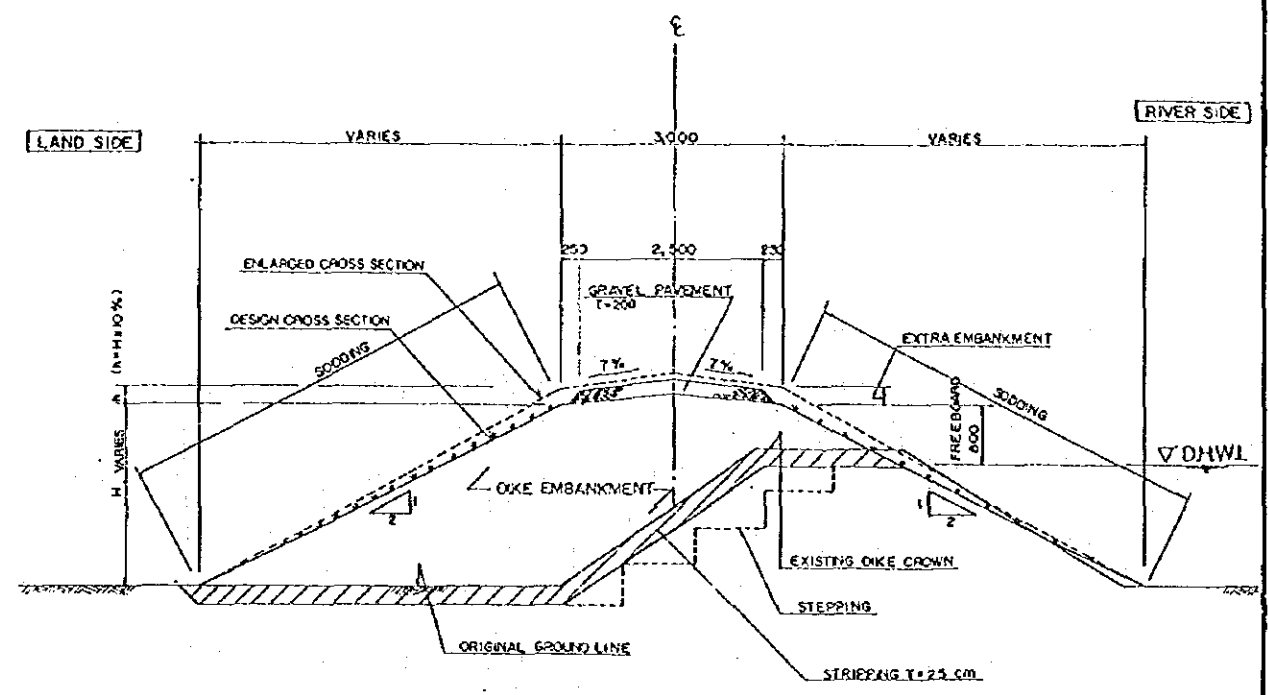
STANDARD CROSS SECTION OF RETARDING CHANNEL AND SLOPE PROTECTION (UNIT : mm)
SCALE B



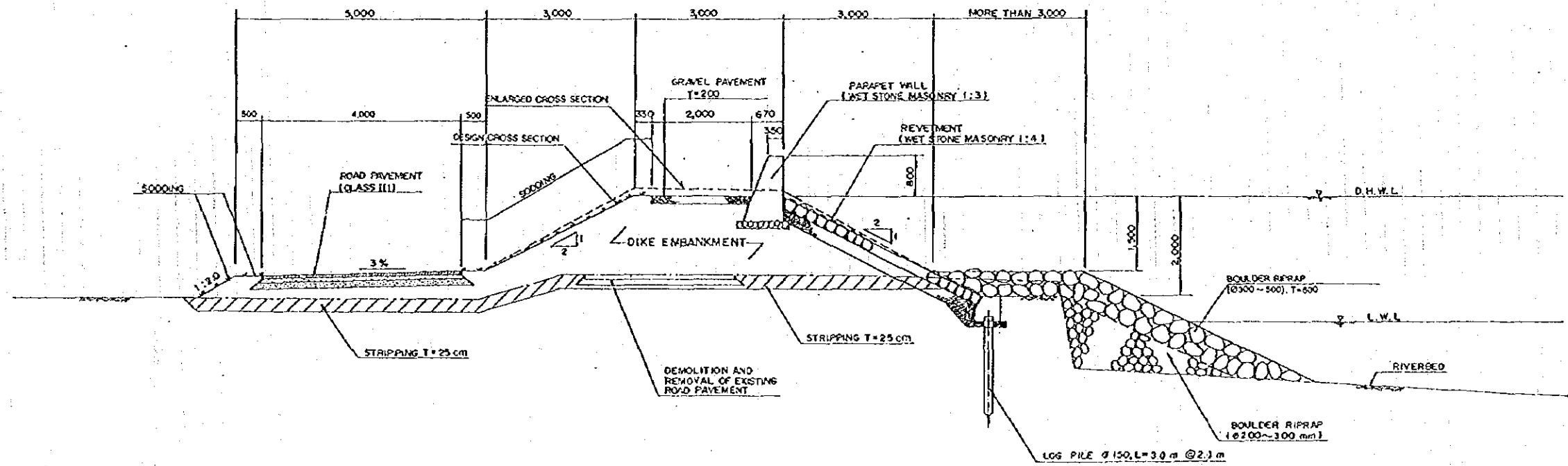
DETAILED DESIGN STUDY ON MEDAN FLOOD CONTROL PROJECT JAPAN INTERNATIONAL COOPERATION AGENCY	図面 4.9 テリ遊水河道標準横断面図
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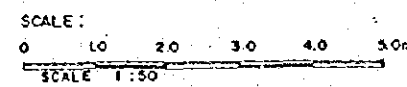
TYPICAL CROSS SECTION OF NEW DIKE
SCALE 1:50



TYPICAL SECTION OF DIKE RAISED ON EXISTING DIKE
SCALE 1:50

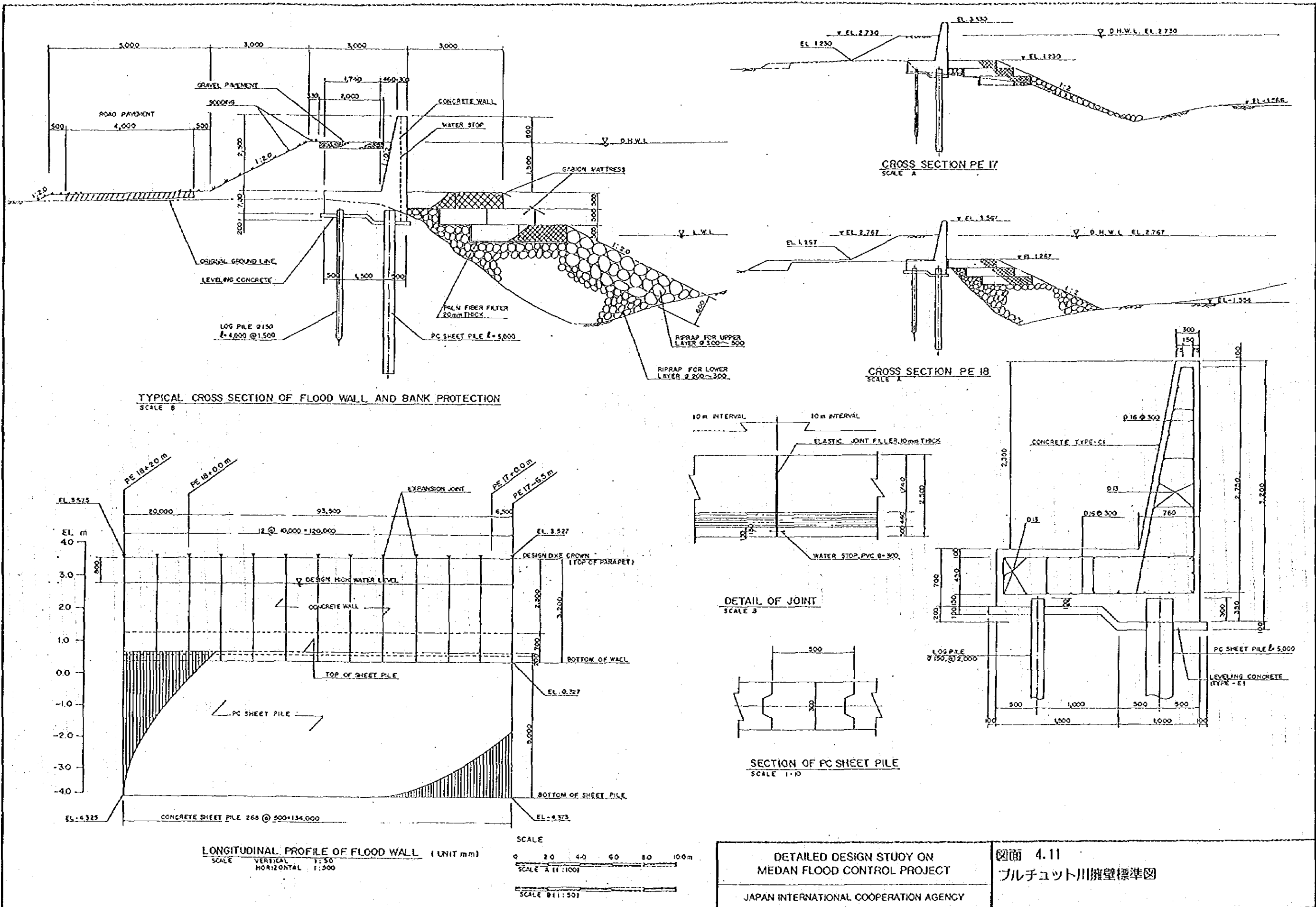


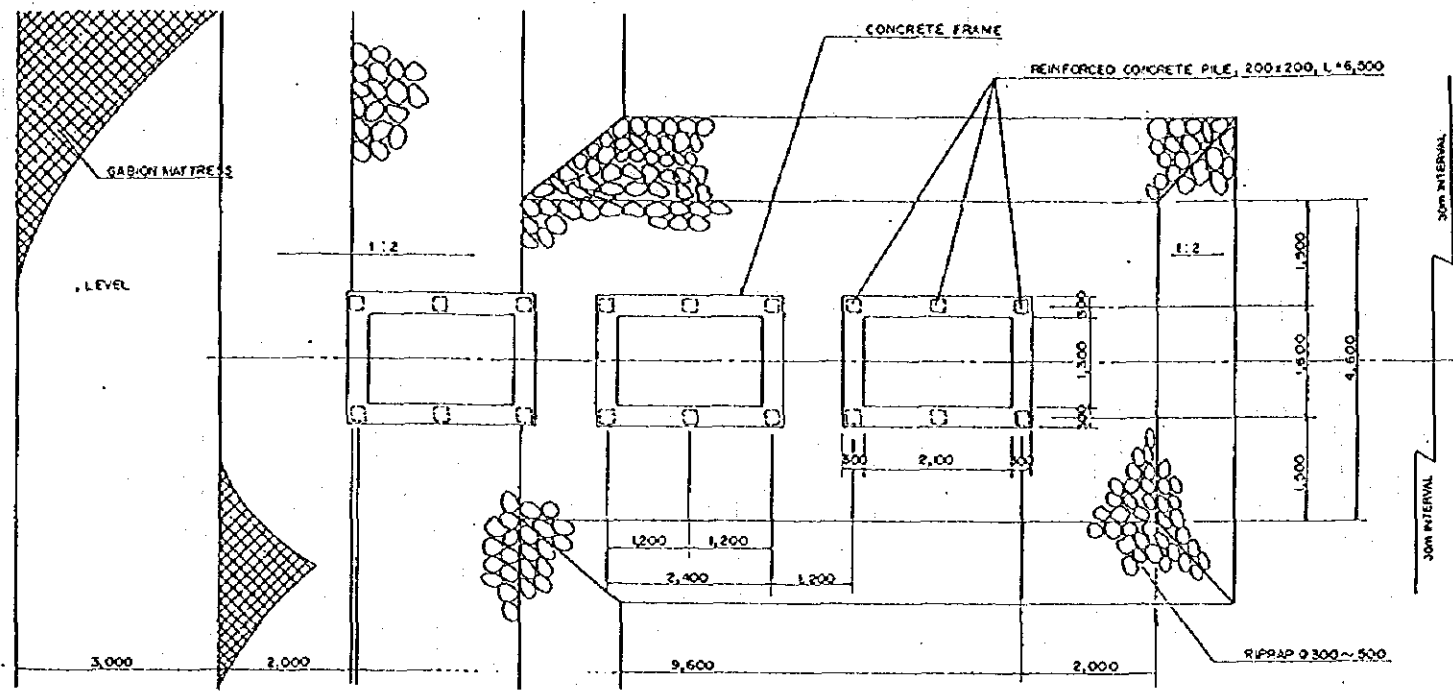
TYPICAL CROSS SECTION OF COMBINATION DIKE OF EMBANKMENT AND PARAPET WALL
PERCUT RIVER (PE 14+70m TO PE 33±0m, LEFT BANK)
SCALE 1:50



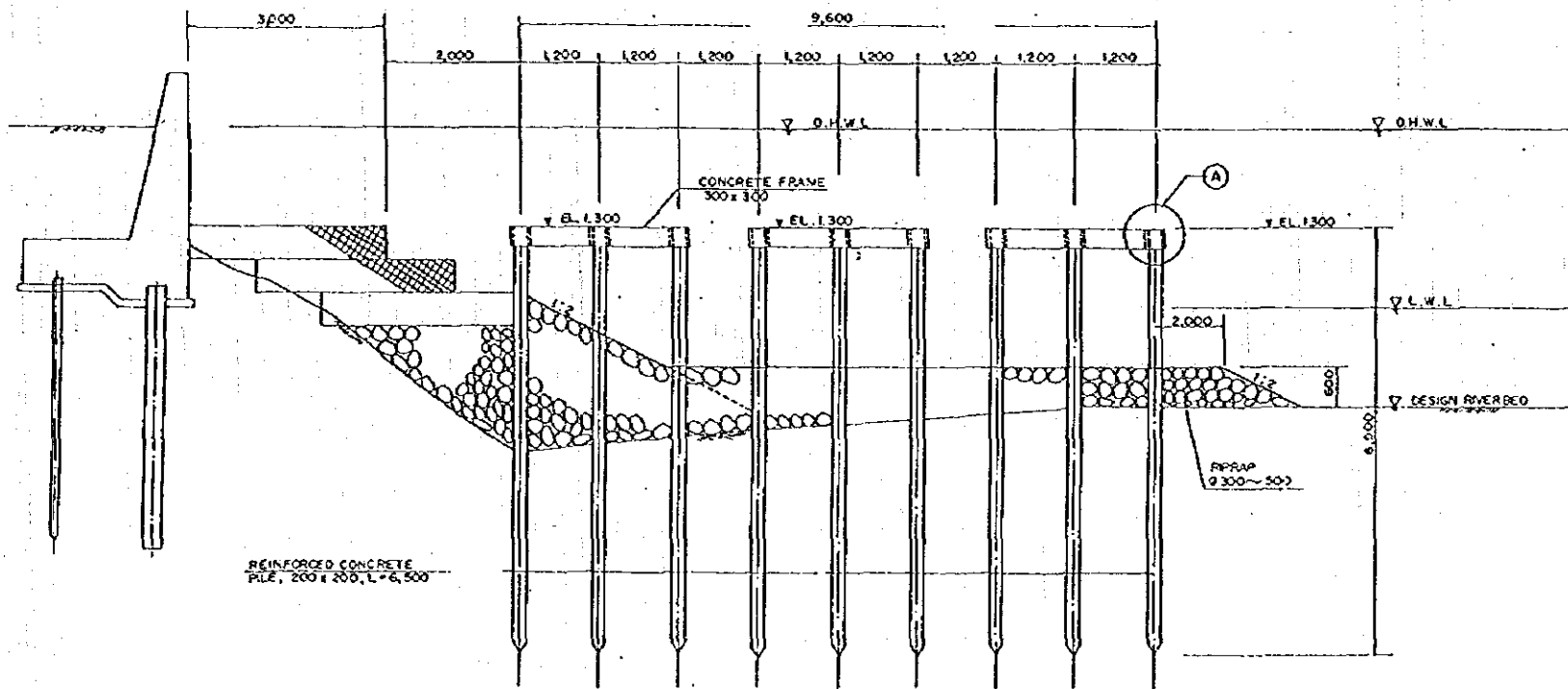
DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

図面 4.10
堤防標準横断面

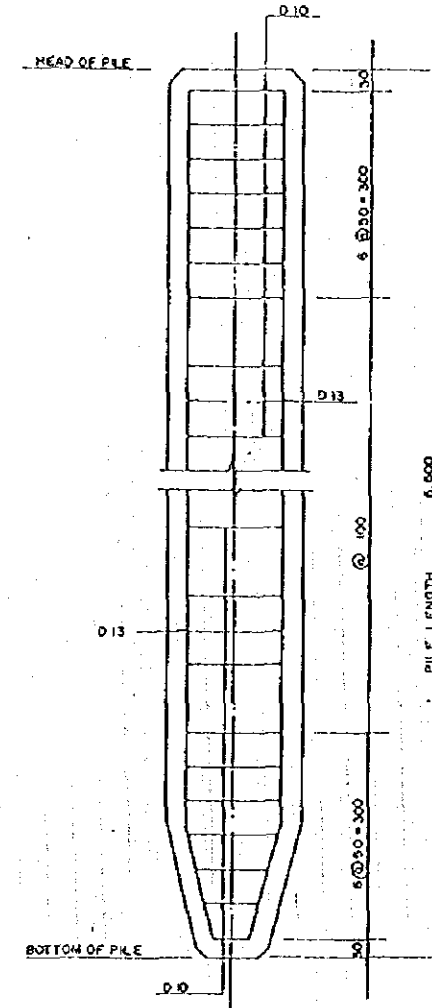
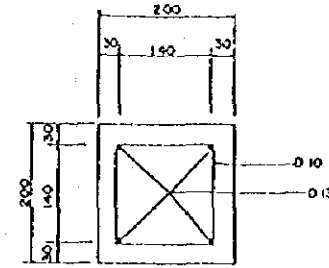




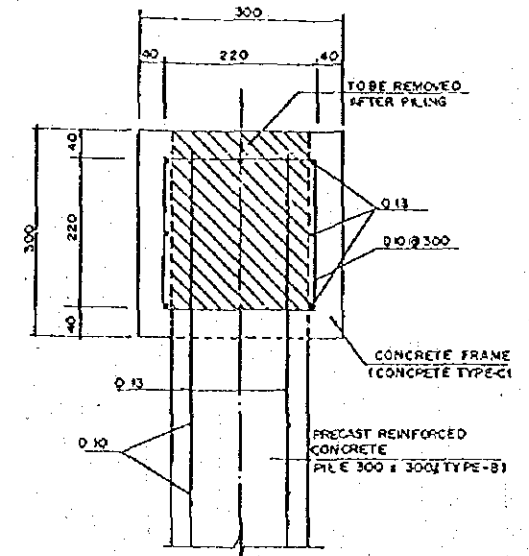
PLAN (UNIT mm)
SCALE A



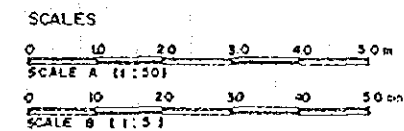
PROFILE OF GROIN AND BANK PROTECTION (UNIT mm)
SCALE A



PILE ELEVATION AND CROSS SECTION (UNIT mm)
SCALE B



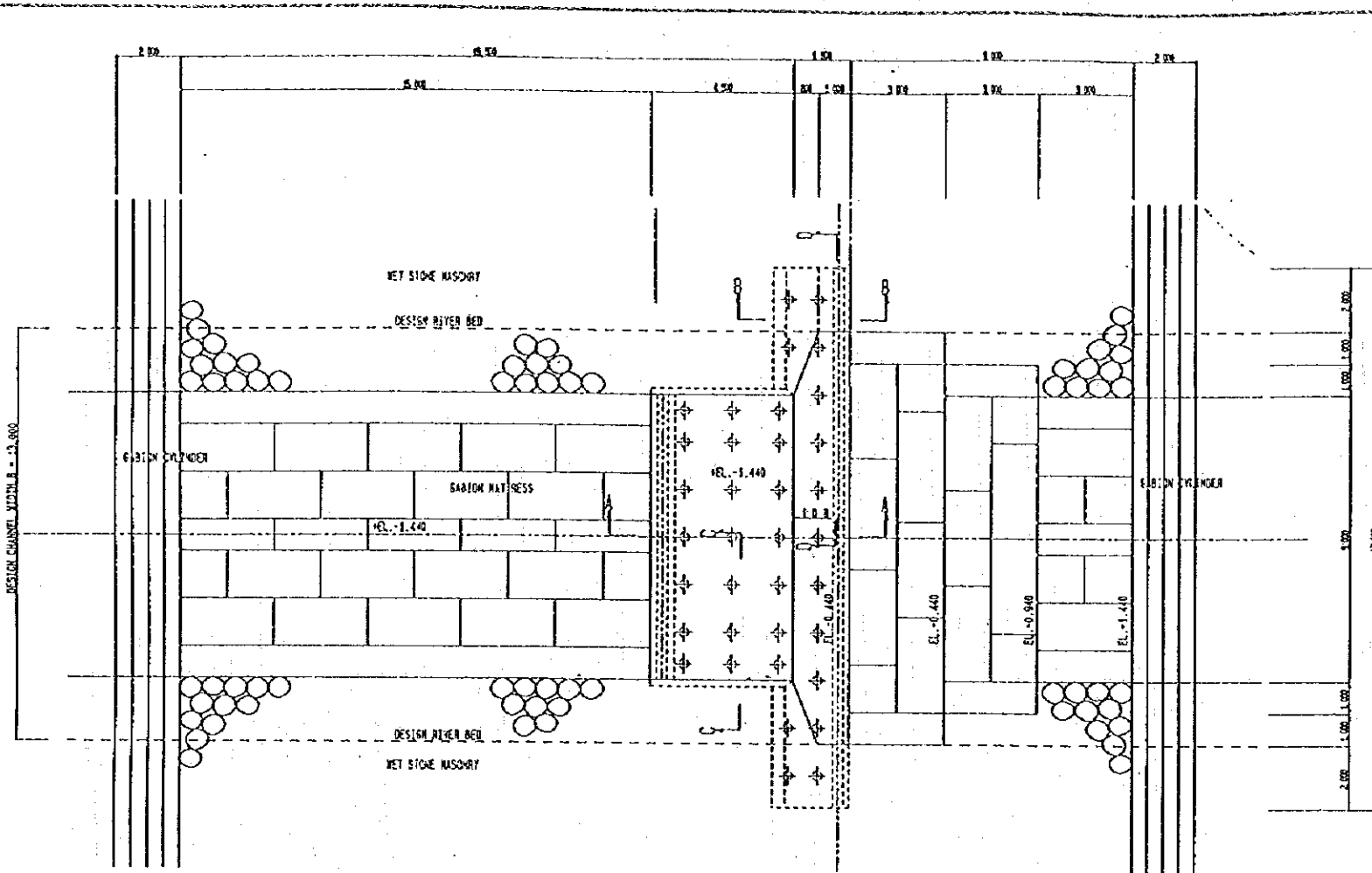
DETAIL OF (A)
SCALE B



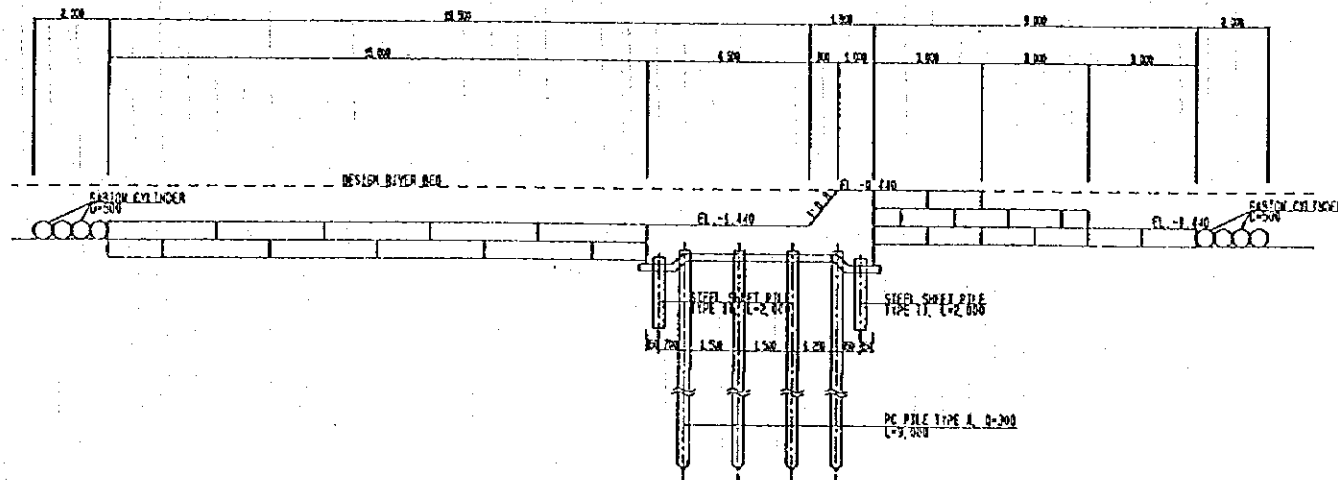
DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

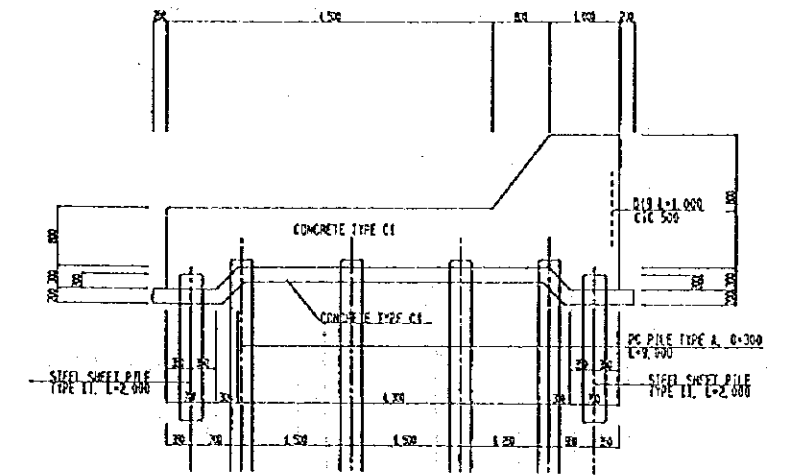
図面 4.12
ブルチュット川水制工



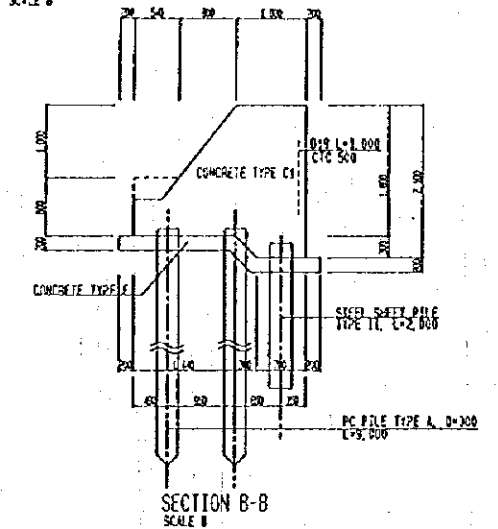
PLAN
SCALE 1



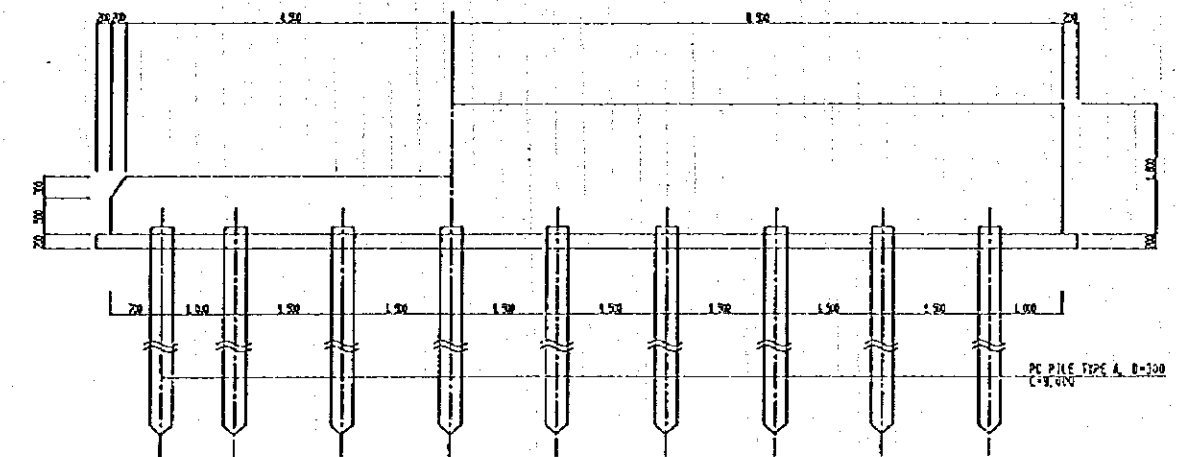
PROFILE
SCALE 1



SECTION A-A
SCALE 8

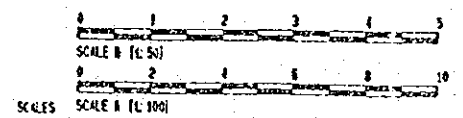


SECTION B-B
SCALE 8



SECTION C-C
SCALE 8

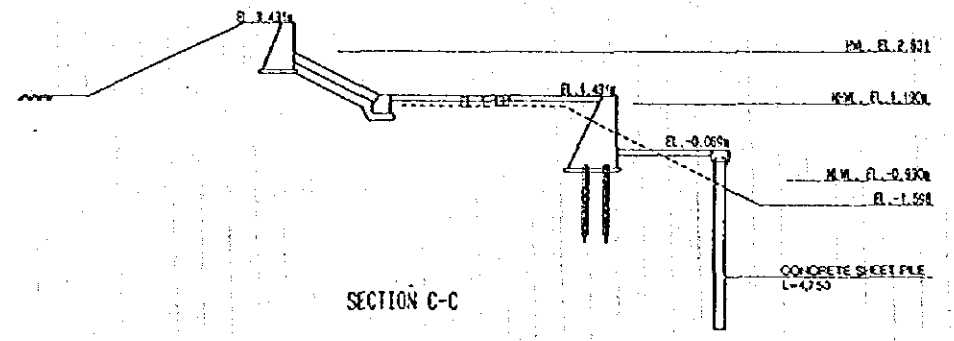
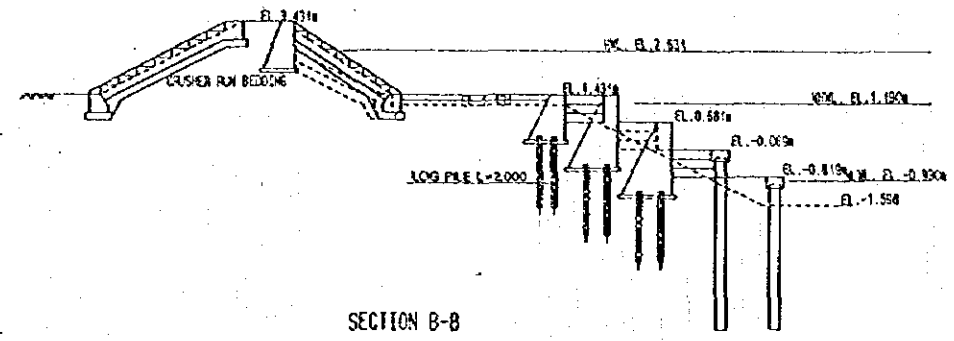
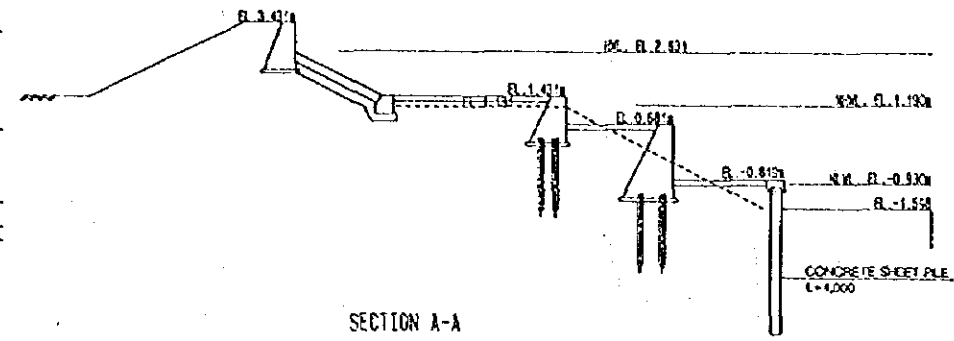
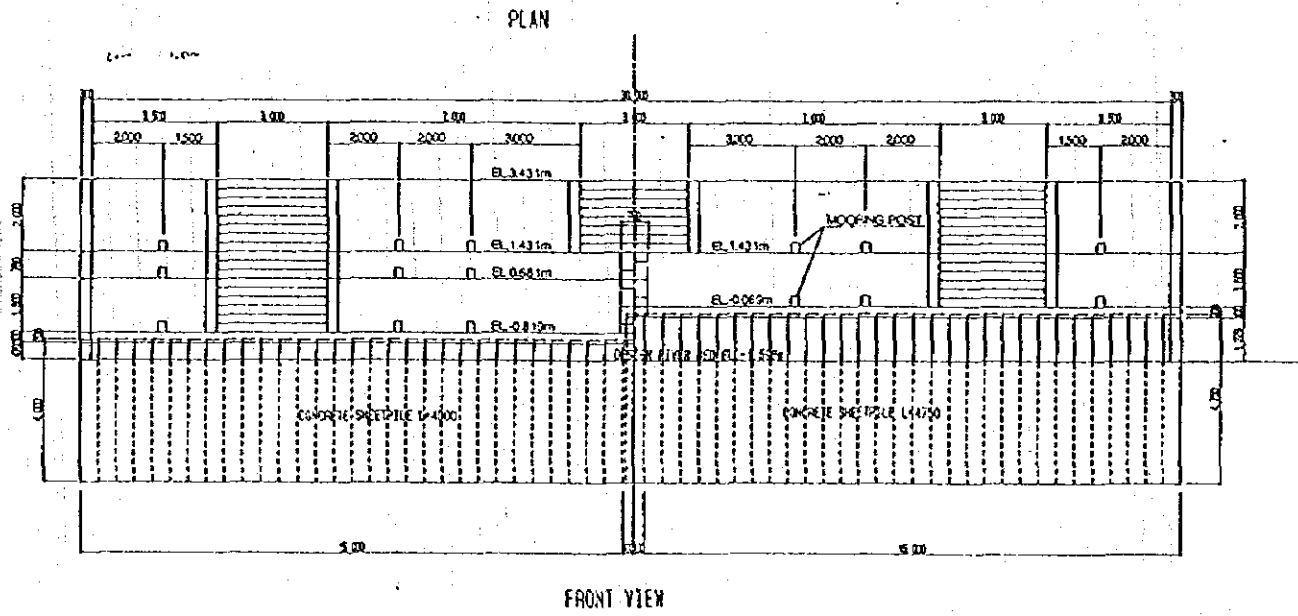
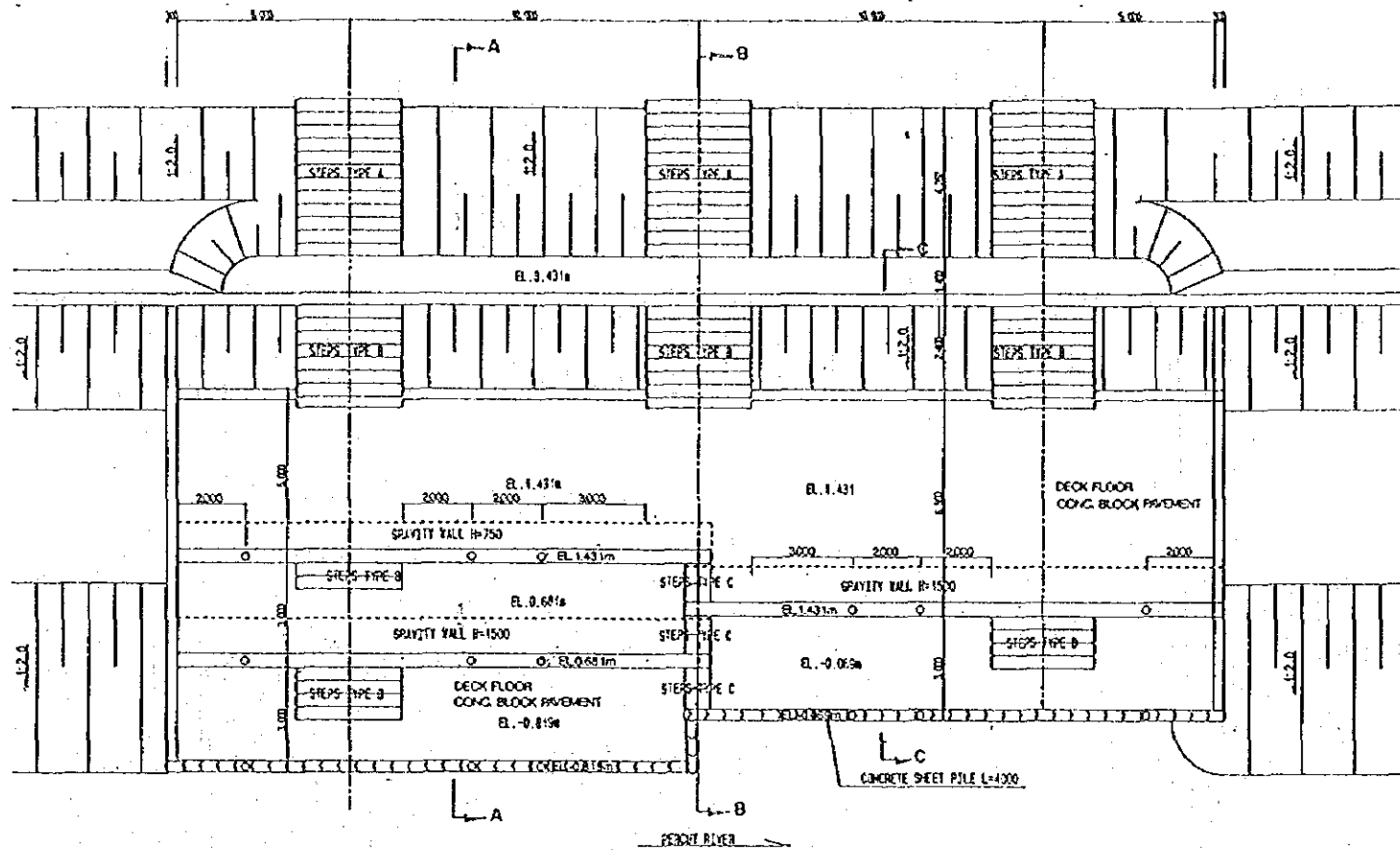
SECTION D-D
SCALE 8



DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT

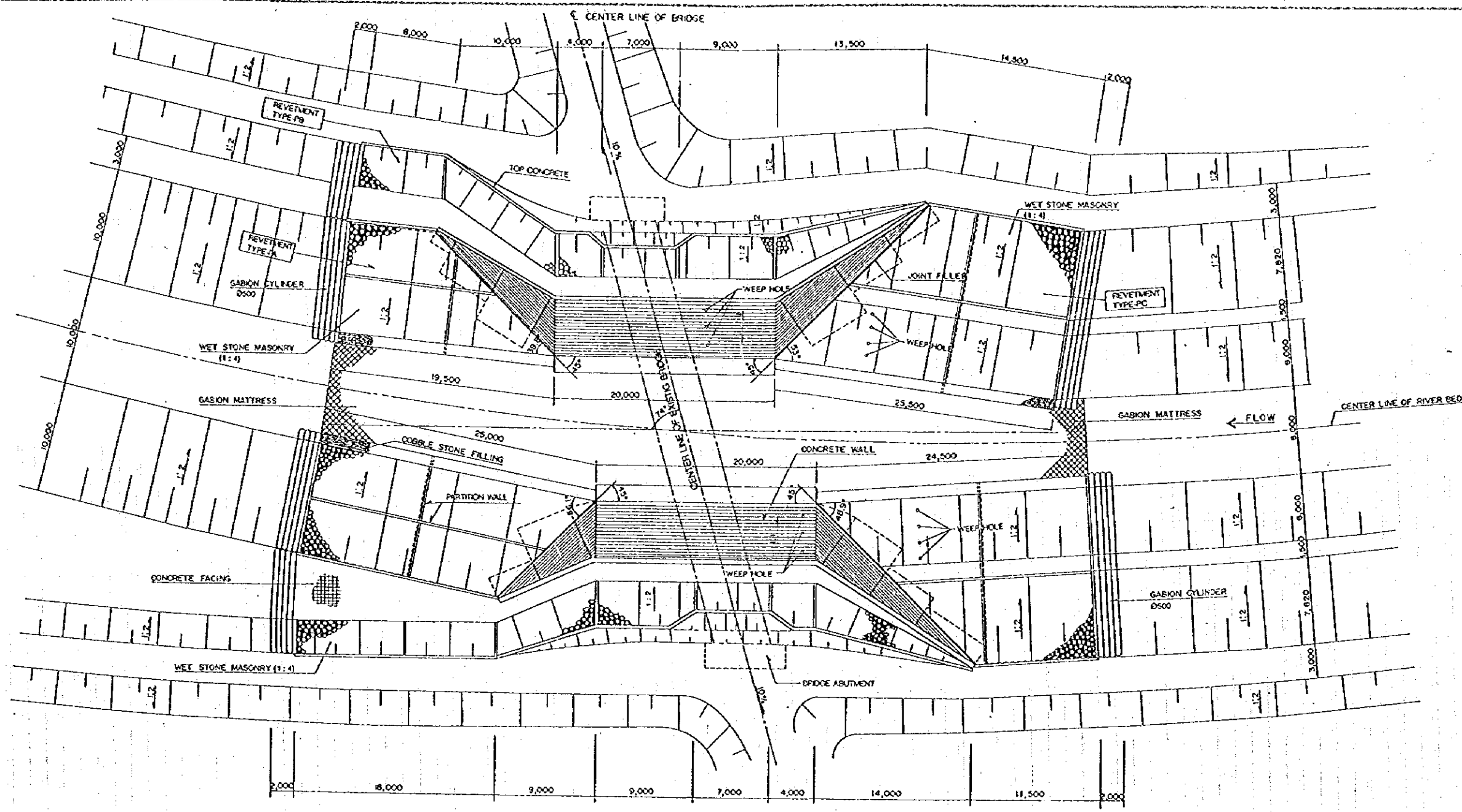
図面 4.13
ブルチュット川帯工

JAPAN INTERNATIONAL COOPERATION AGENCY

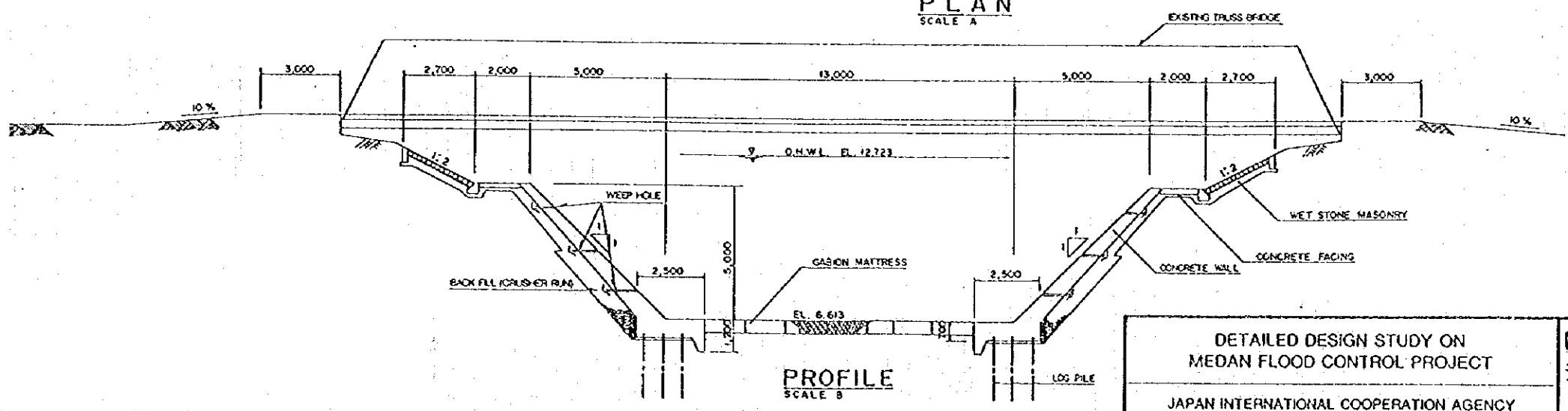


SCALE
0 20 40 60 80 100m
SCALE AT 1:1000

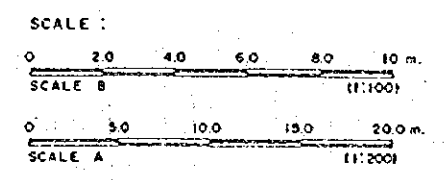
DETAILED DESIGN STUDY ON MEDAN FLOOD CONTROL PROJECT JAPAN INTERNATIONAL COOPERATION AGENCY	図面 4.14 ガルチュット川船着き場
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PLAN
SCALE A

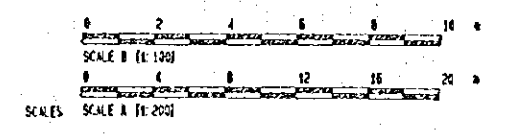
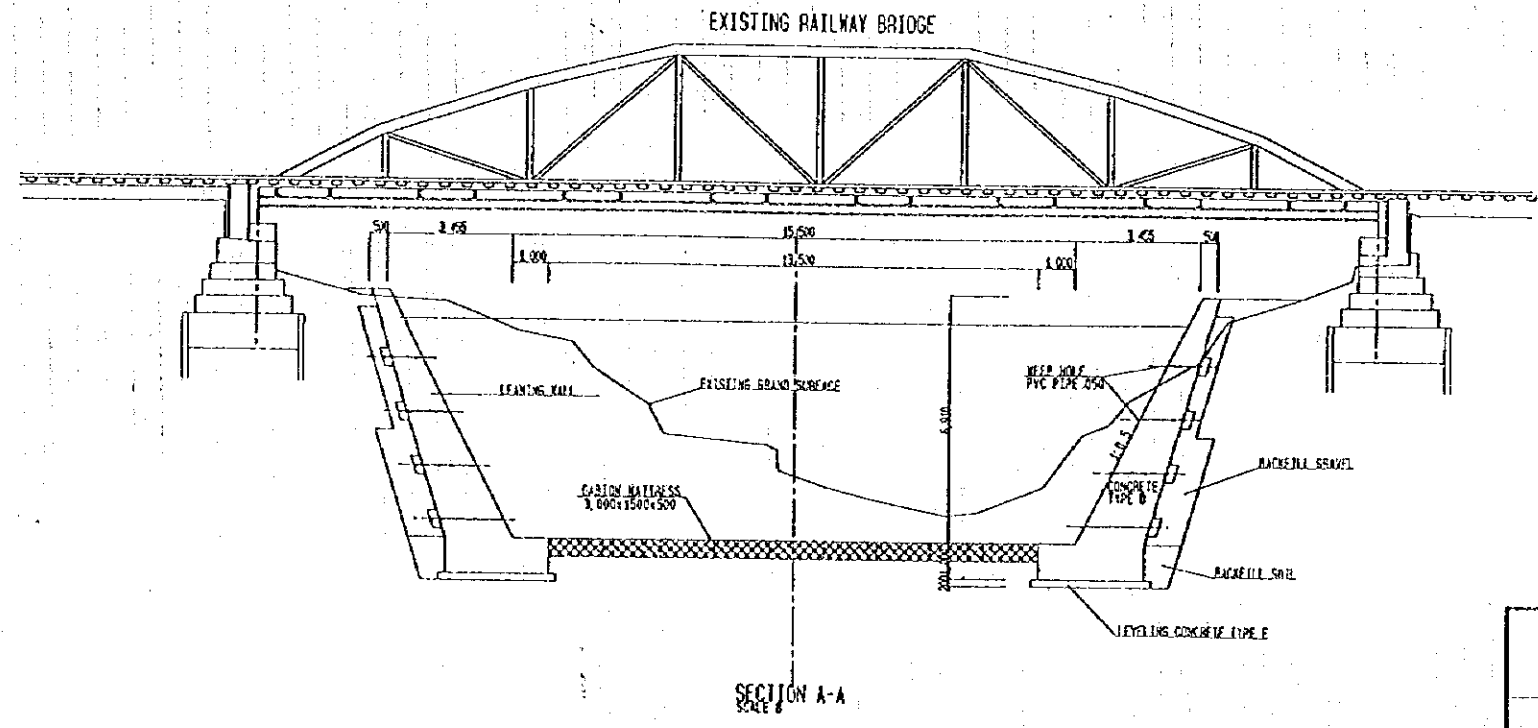
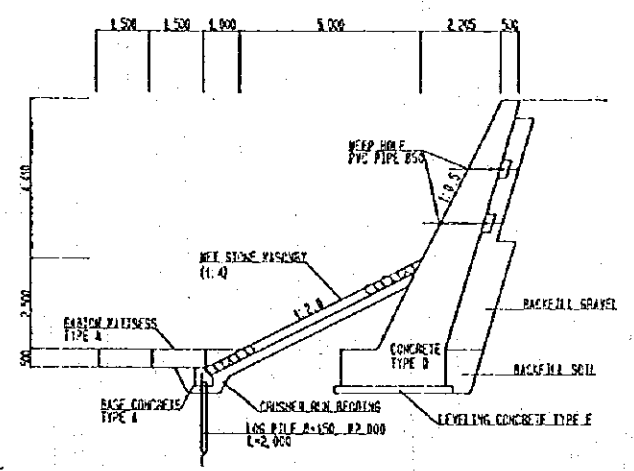
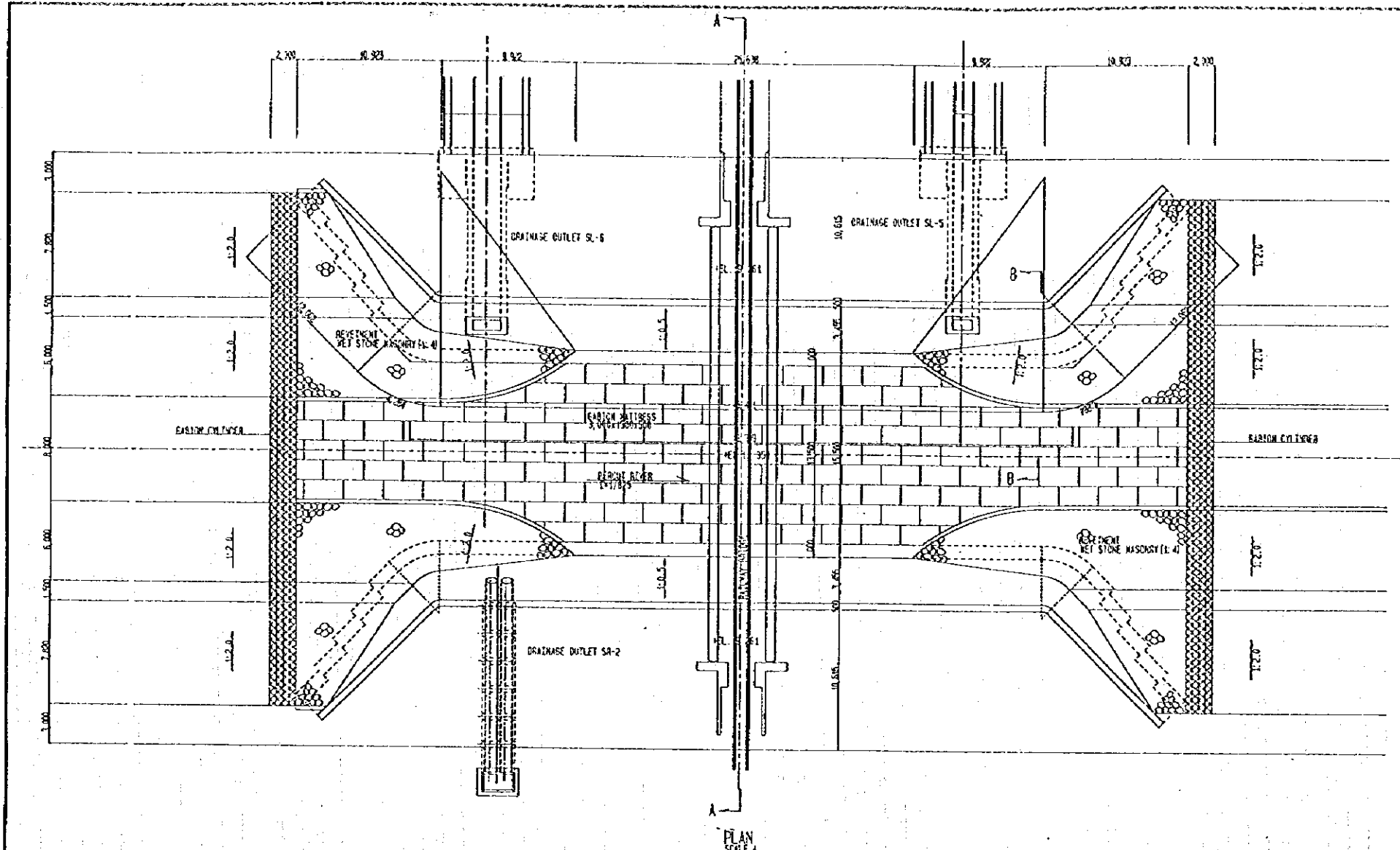


PROFILE
SCALE B



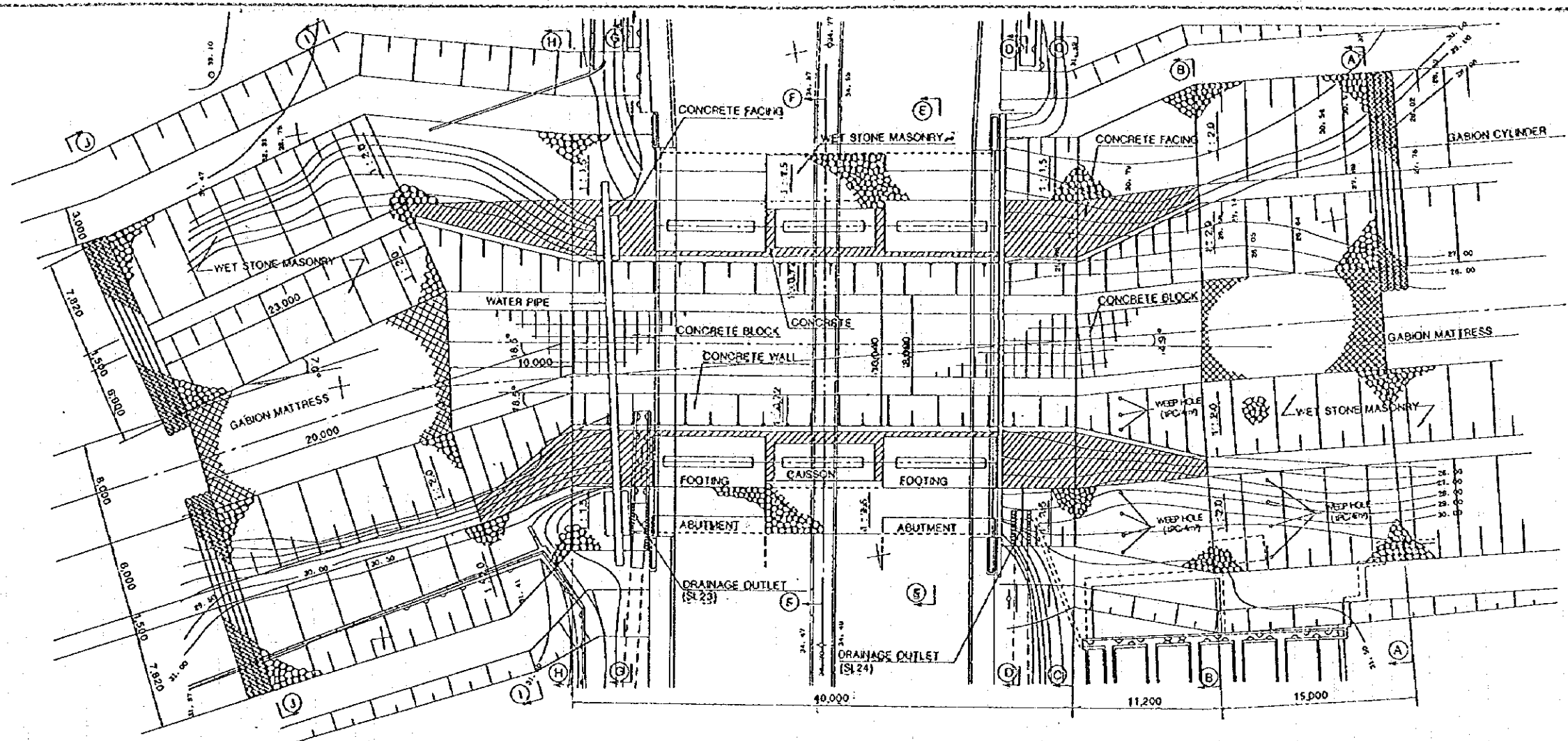
DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

図面 4.15
河川橋脚保護工

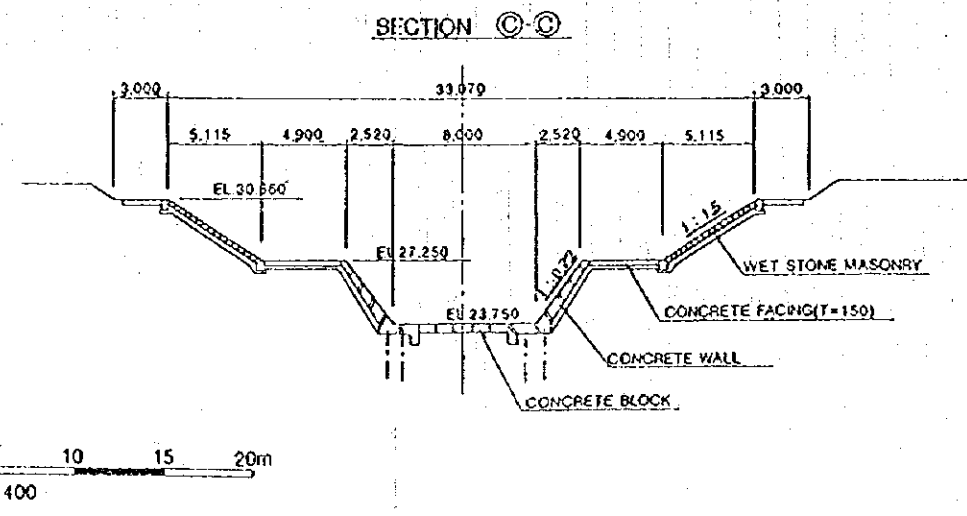
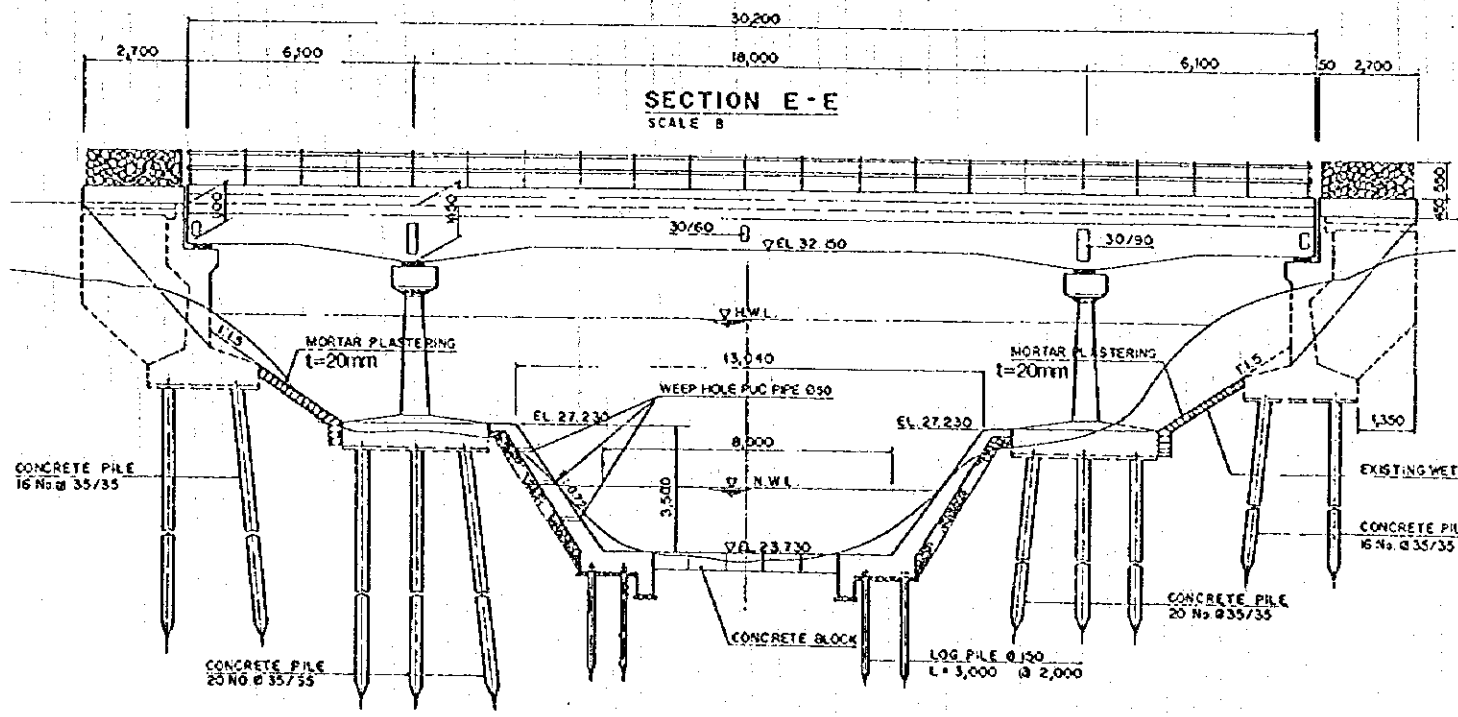


DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

図面 4.16
鉄道橋保護工



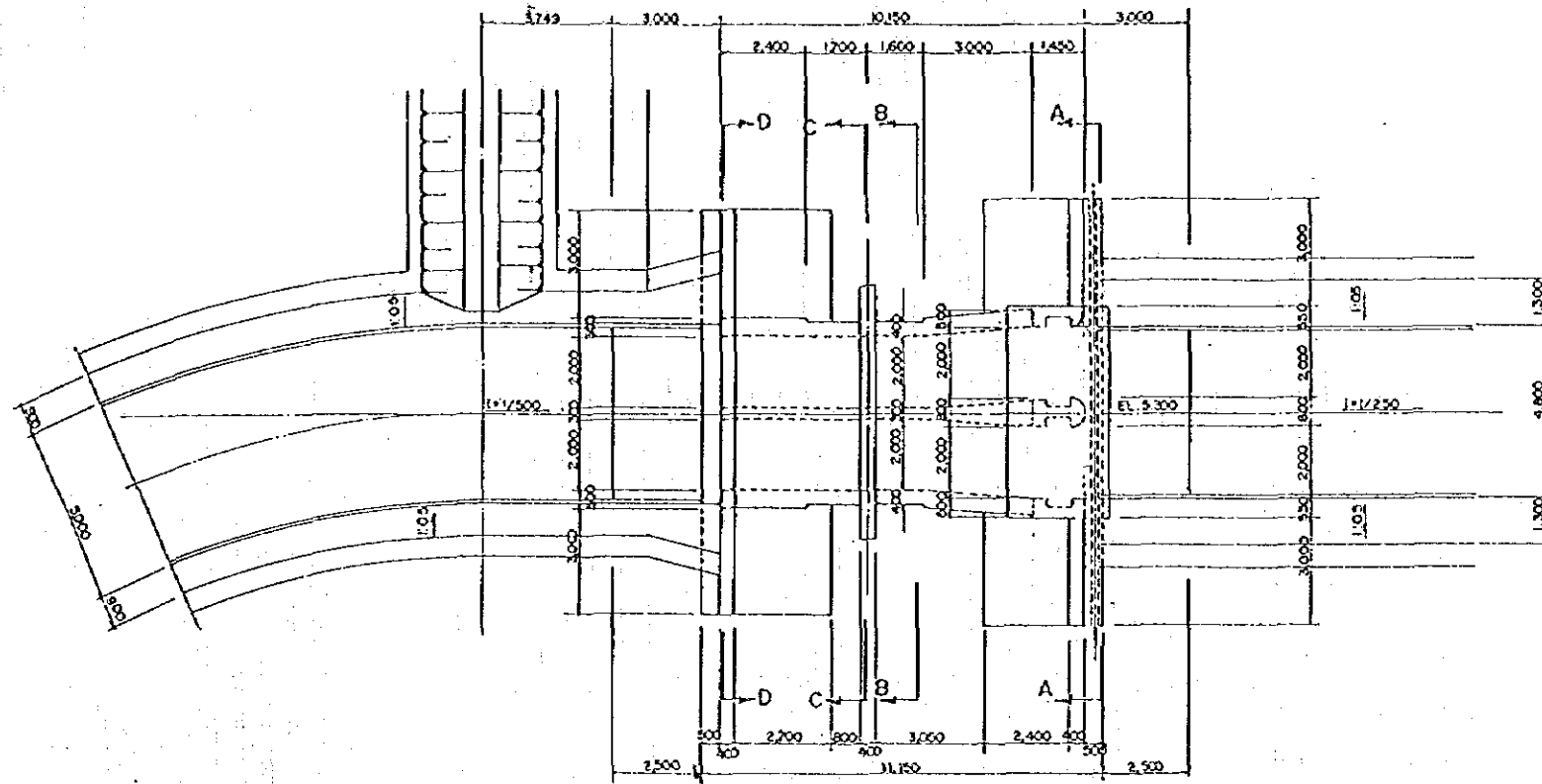
PLAN
SCALE 1 : 200



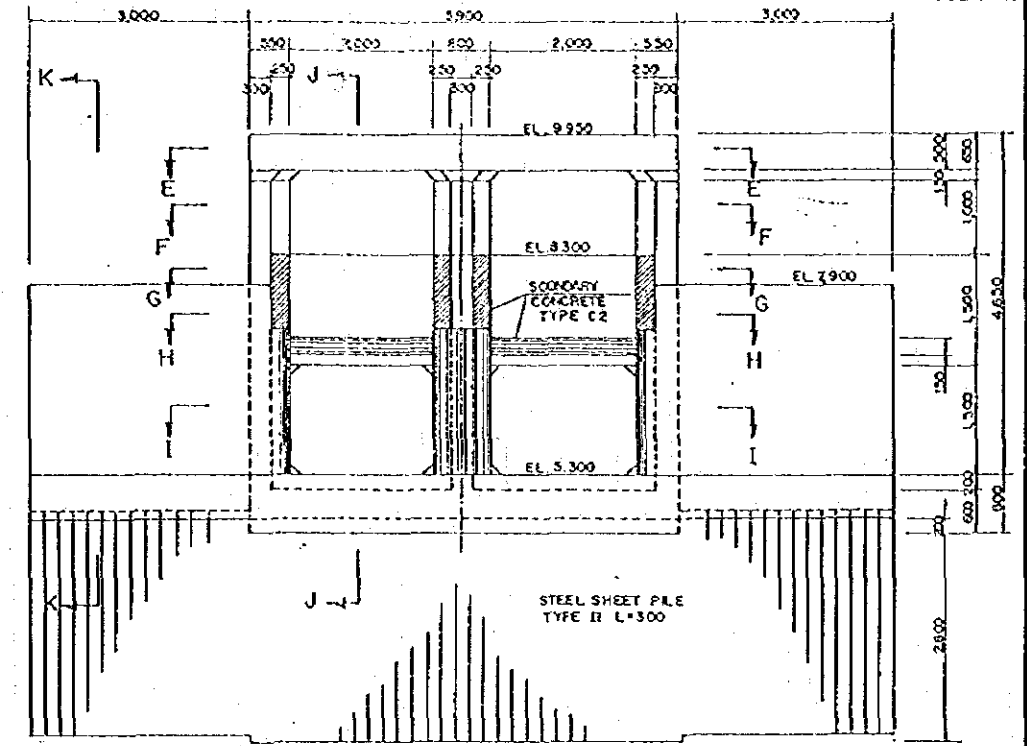
SCALE
0 5 10 15 20m
SCALE 1 : 400

DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

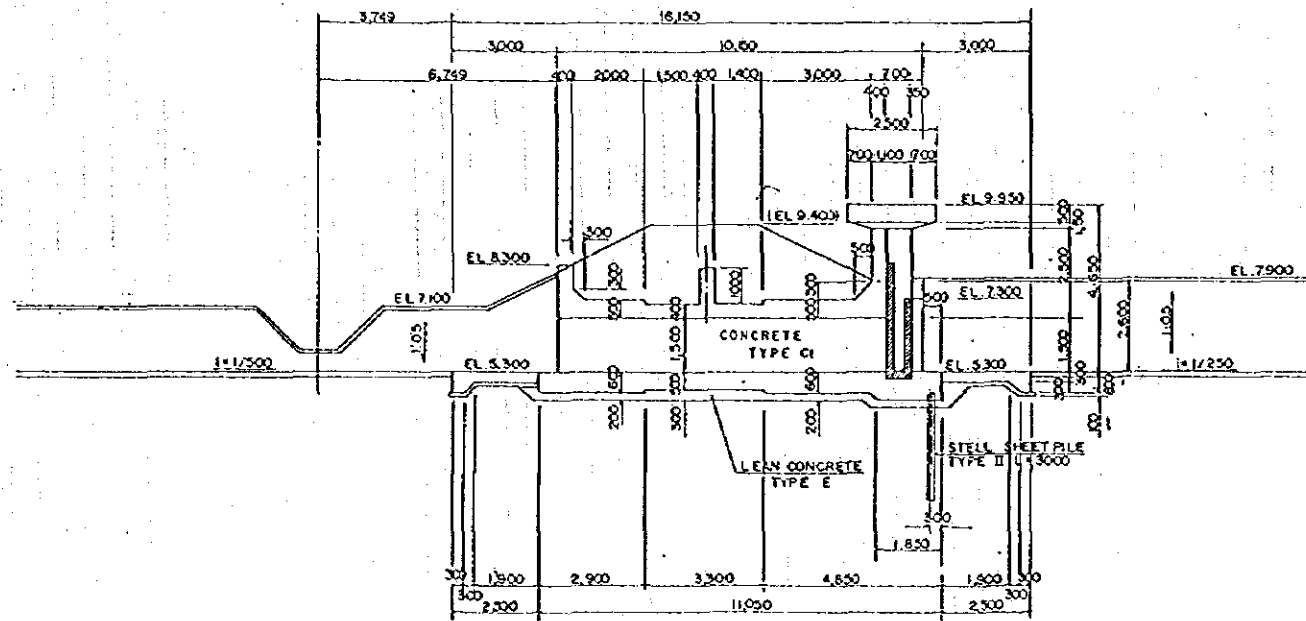
図面 4.17
国道橋保護橋



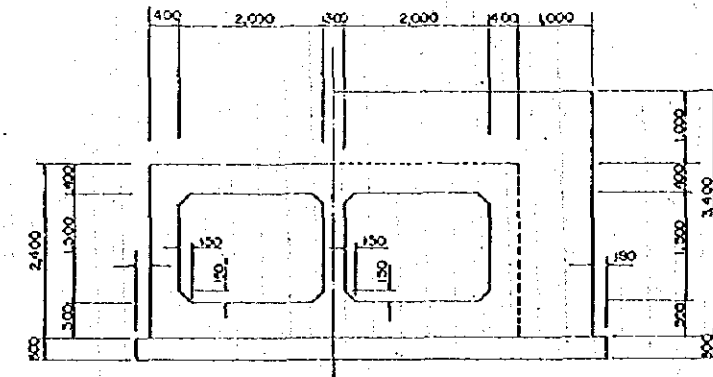
PLAN
SCALE A



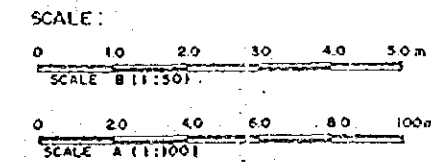
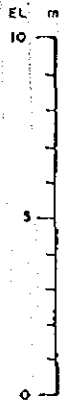
SECTION A-A
SCALE B



PROFILE
SCALE A



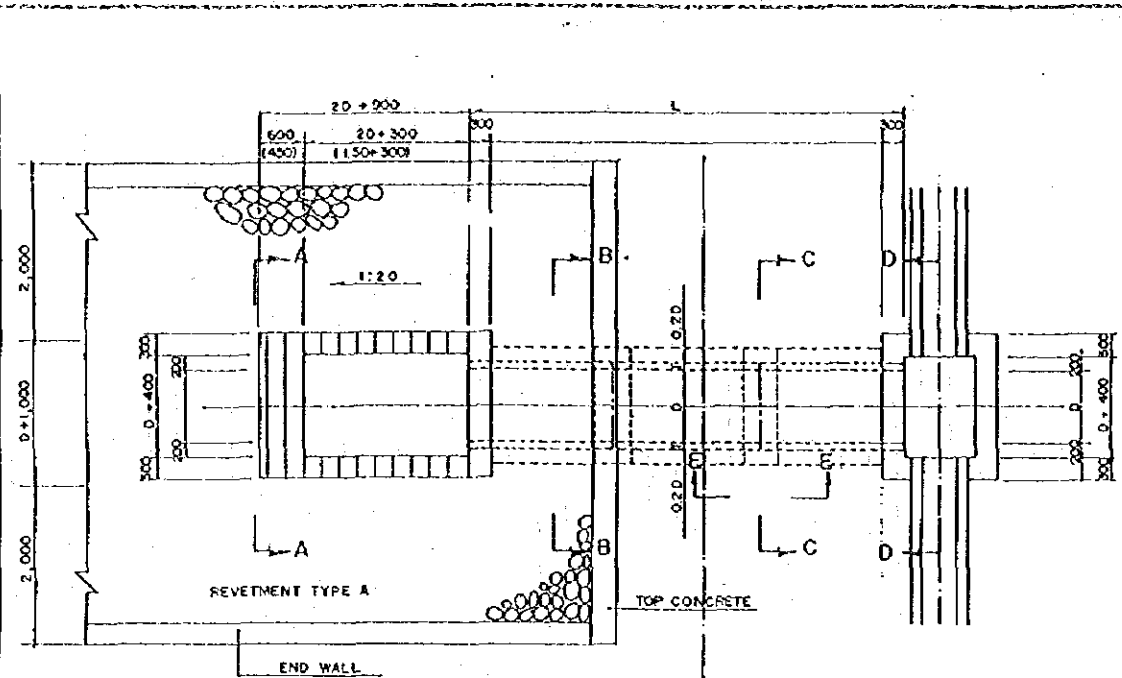
SECTION B-B SECTION C-C
SCALE B



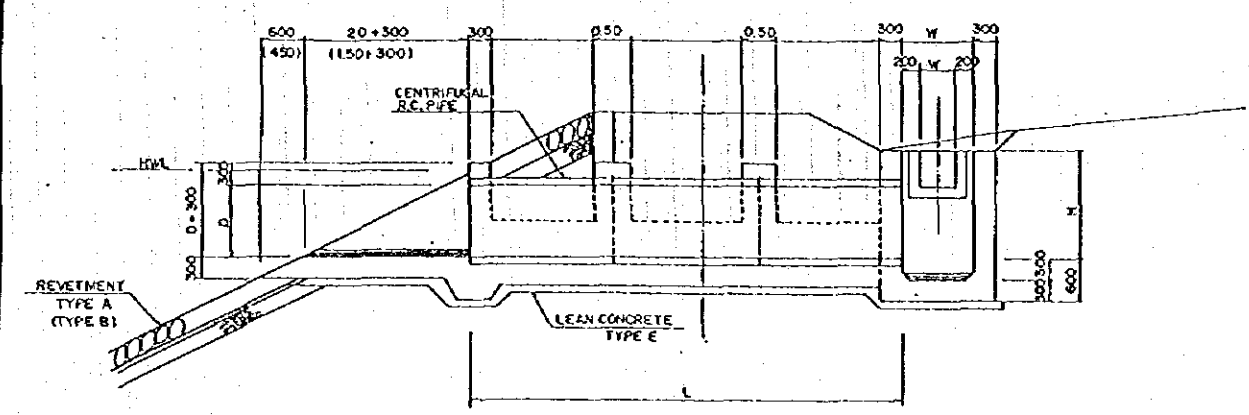
DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

図面 4.18
樋門一般図 (SI-2)

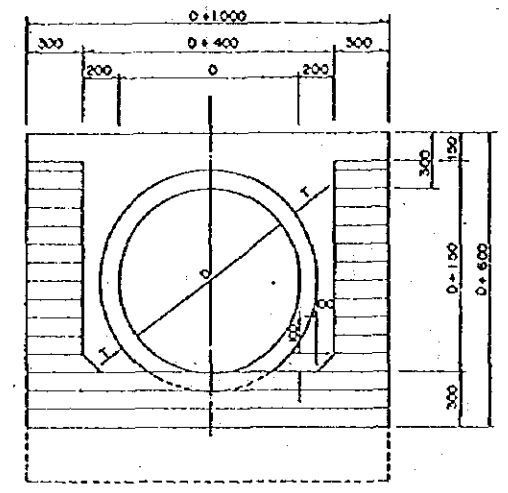


PLAN
SCALE A

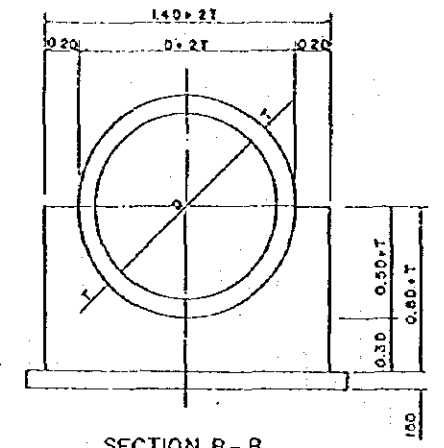


PROFILE
SCALE A

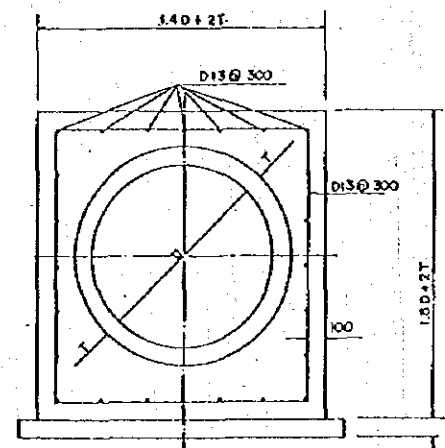
D (mm)	T (mm)
1000	82
800	66
600	50



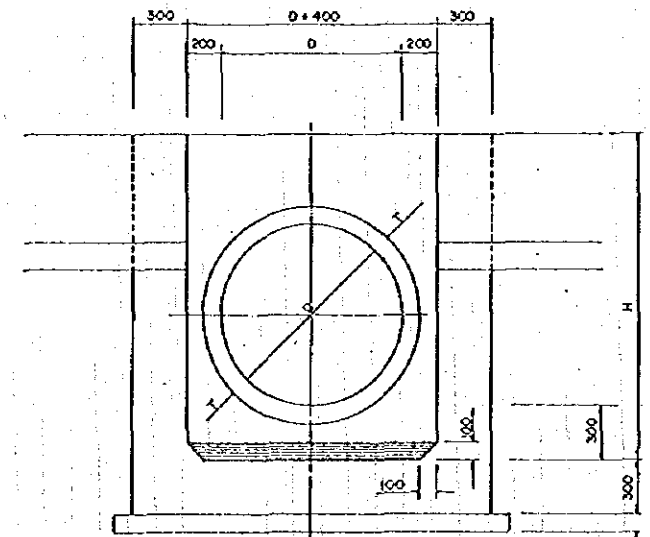
SECTION A-A
SCALE B



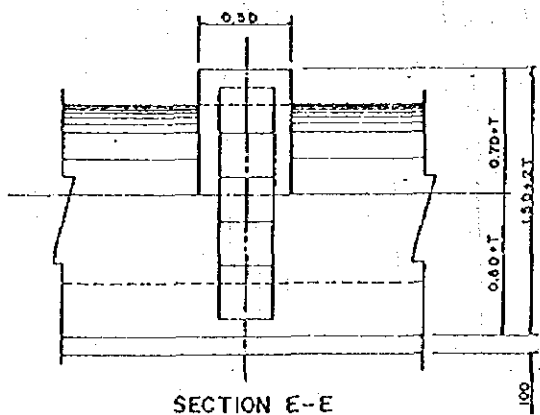
SECTION B-B
SCALE B



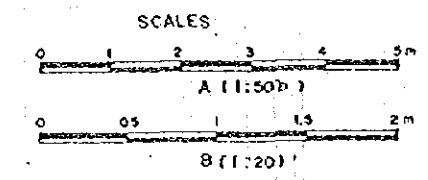
SECTION C-C
SCALE B



SECTION D-D
SCALE B



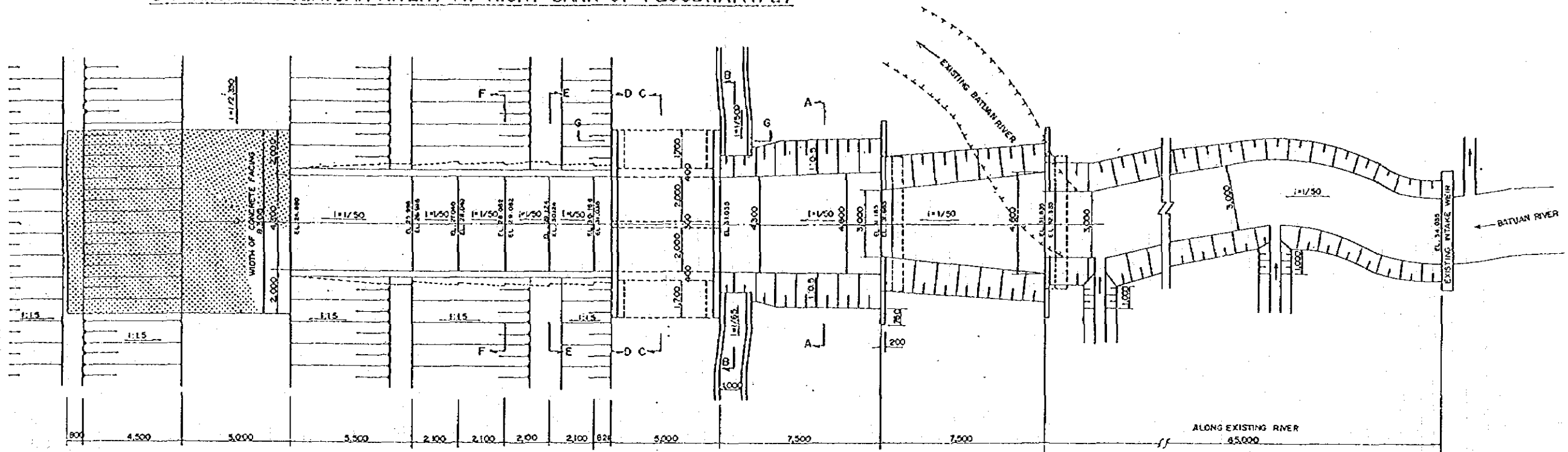
SECTION E-E
SCALE B



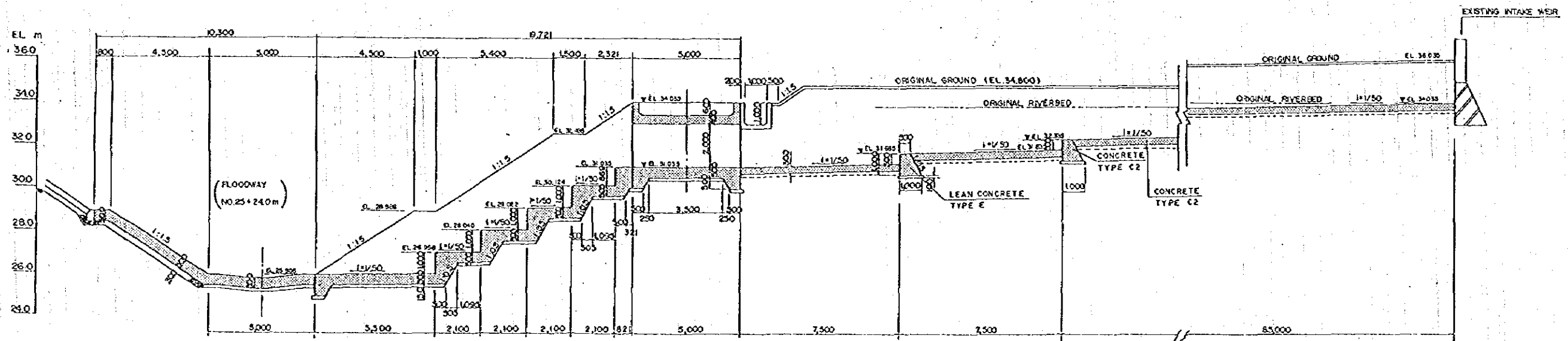
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図面 4.19
円形樋管の一般図

DRAINAGE SF5 (BATUAN RIVER) AT RIGHT BANK OF FLOODWAY(1/2)



PLAN



PROFILE

SCALE
0 20 40 60 80 100m
SCALE 1 : 200

DETAILED DESIGN STUDY ON
MEDAN FLOOD CONTROL PROJECT

図面 4.20
バトゥアン川の処理計画

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