

Fig. 4.1-1

Location of Phru Phli Khwai Retarding Basin



Phru Phli Khwai Existing Condition



Phru Mao Existing Condition

Fig 4.1-2

Photograph of Phru Phli Khwai and Phru Mao Existing condition

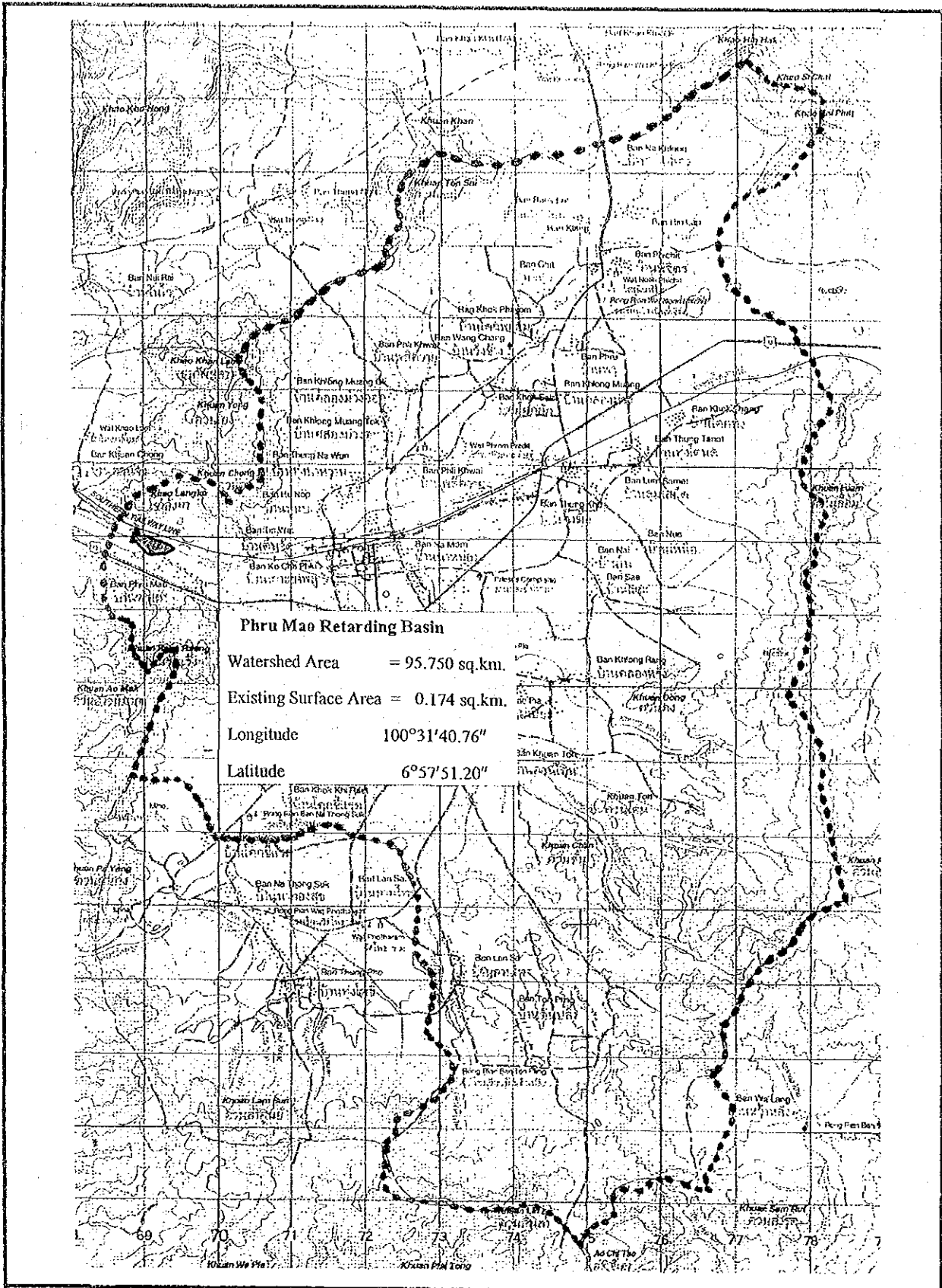
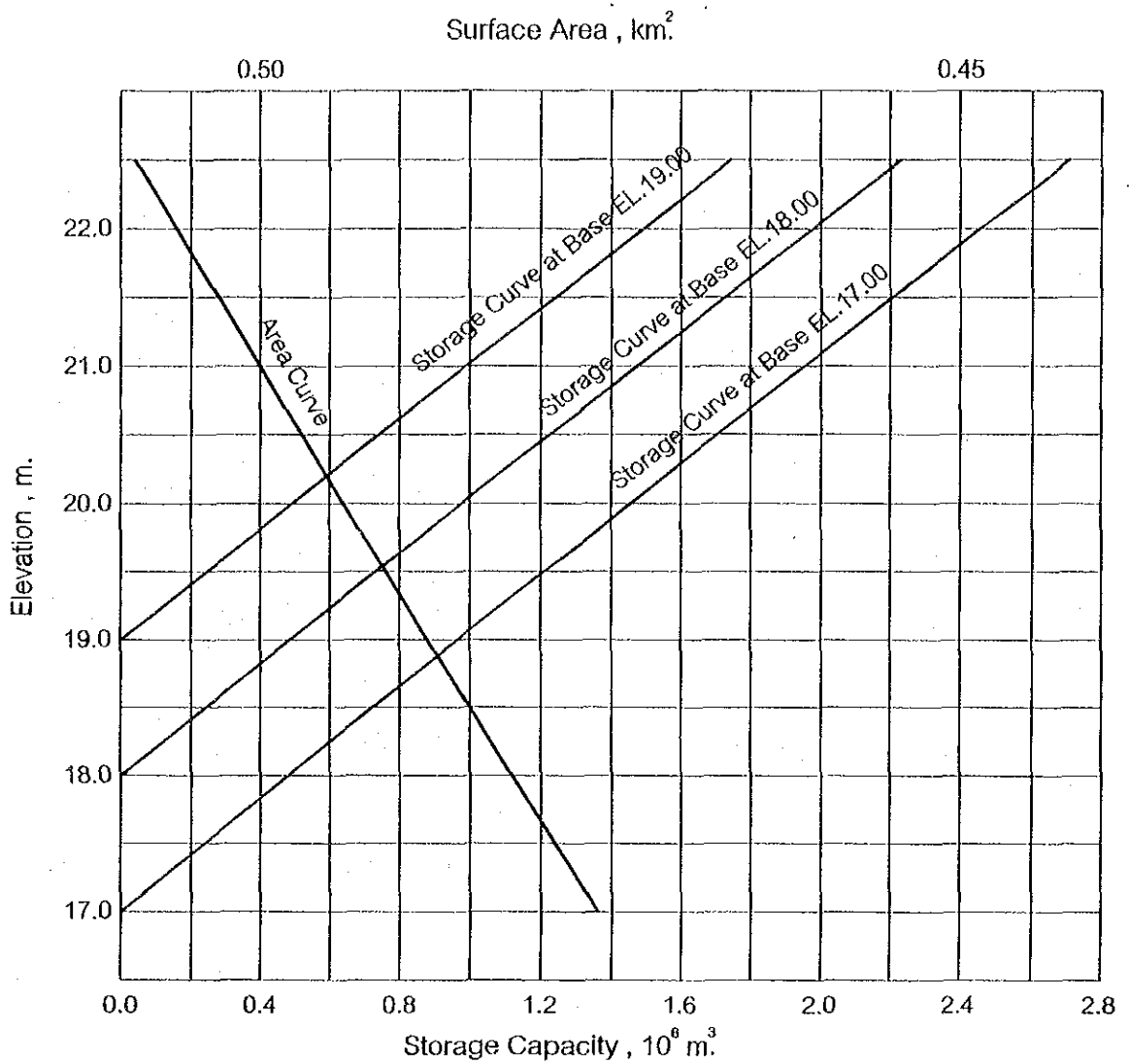


Fig. 4.1-3

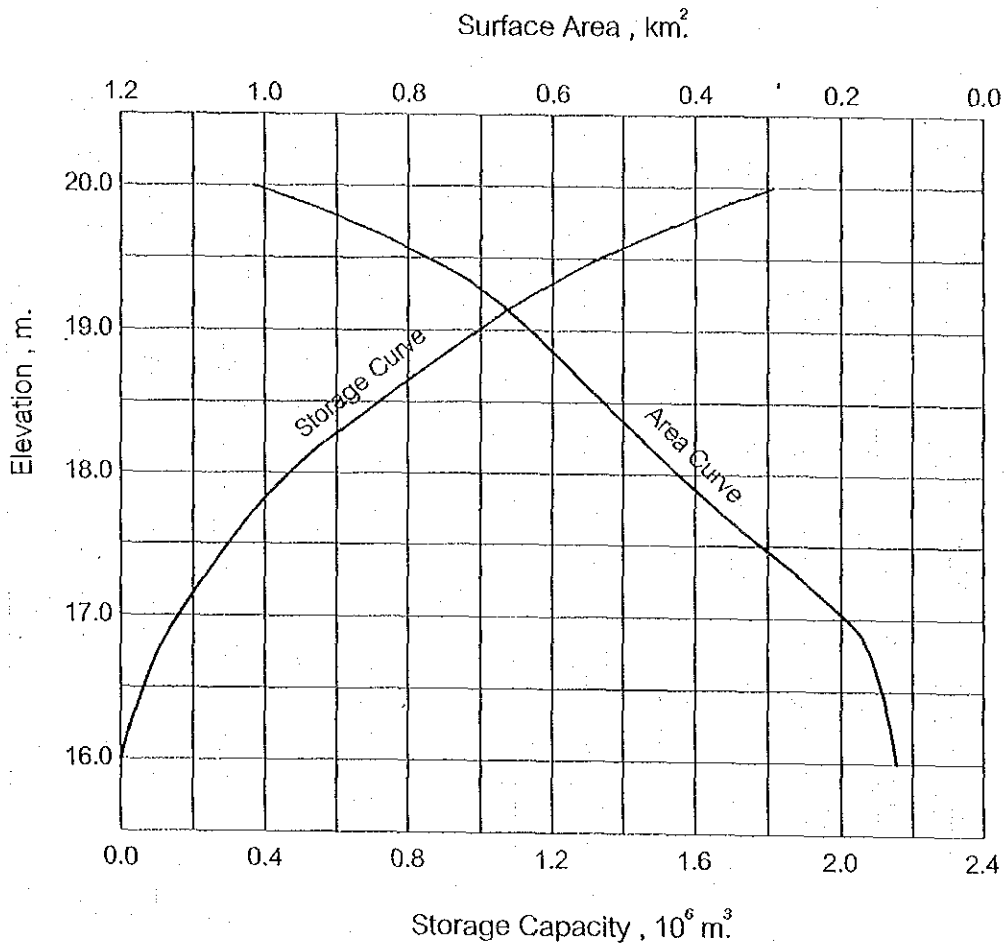
Location of Phru Mao Retarding Basin



Elev. (m.)	Area (km ²)	Capacity at Base Elevation (10 ⁶ m ³)		
		17.00	18.00	19.00
17.00	0.476	0		
18.00	0.482	0.479	0	
19.00	0.488	0.964	0.485	0
20.00	0.494	1.455	0.976	0.491
21.00	0.500	1.952	1.473	0.988
22.00	0.506	2.455	1.976	1.491
22.50	0.509	2.709	2.230	1.745

Fig. 4.1-4

Area Capacity Curve of Phru Phli Khwai Retarding Basin



Elev. (m.)	Area (km ²)	Capacity (10 ⁶ m ³)
16.00	0.123	0
17.00	0.193	0.158
18.00	0.423	0.466
19.00	0.630	0.992
20.00	1.015	1.815

Fig.4.1-5

Area Capacity Curve of Phru Mao Retarding Basin

Discharge at St. X.174 after Construction of the Phru Phli Khwai Retarding Basin

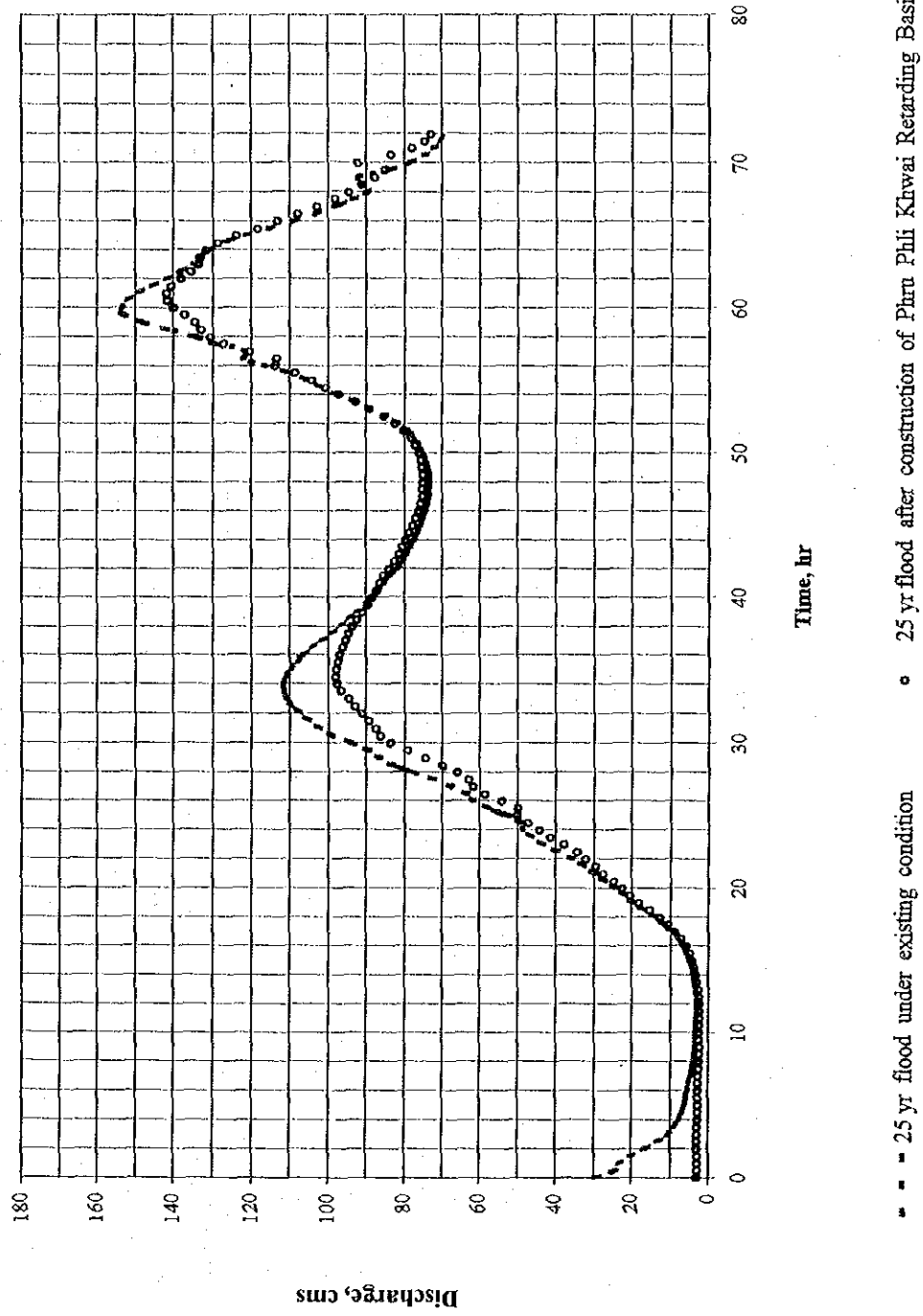


Fig. 4.2-1

Discharge at St. X.174 after Construction of Phru Phli Khwai

Inflow and Outflow Hydrograph from Phru Phli Khwai Retarding Basin for 25 Yr flood

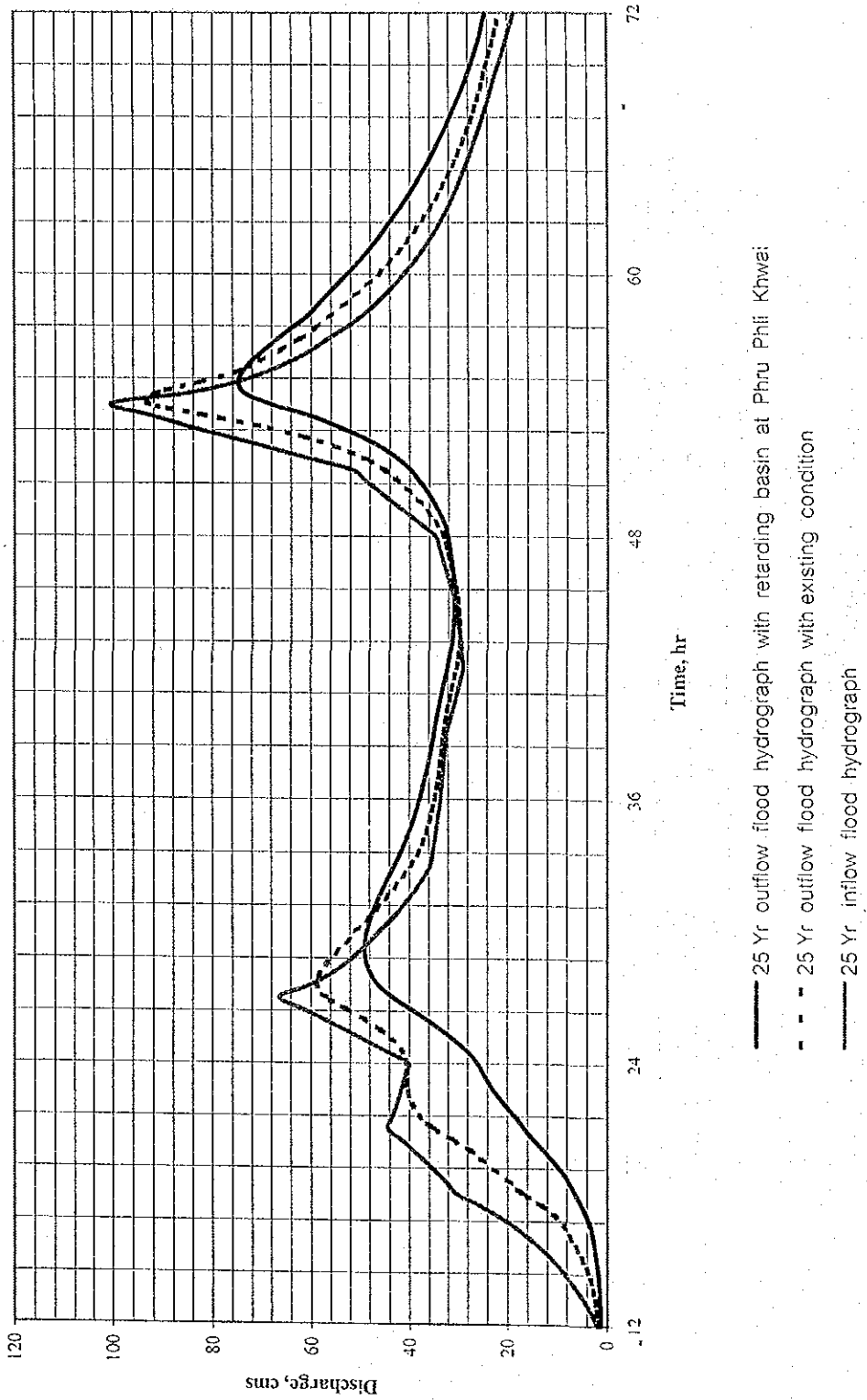


Fig. 4.2-2

Inflow and Outflow Hydrograph from Phru Phli Khwai for 25 Yr. Flood

Flood Hydrograph at St. X.174 after Phru Mao Retarding Basin Improvement

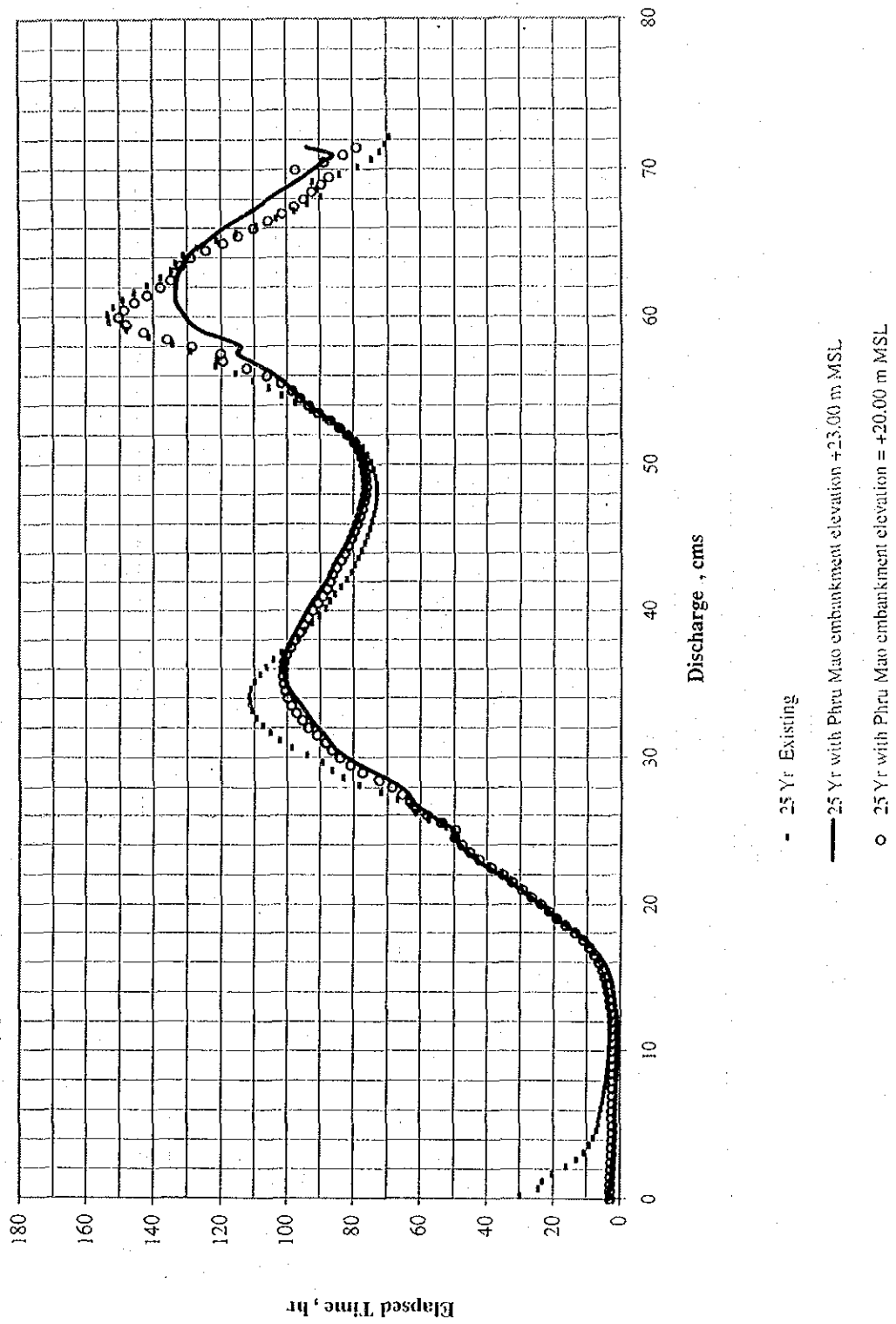


Fig. 4.2-3

Flood Hydrograph at St. X.174 after Phru Mao Improvement

Maximum Water Level after Phru Mao Retarding Basin Construction

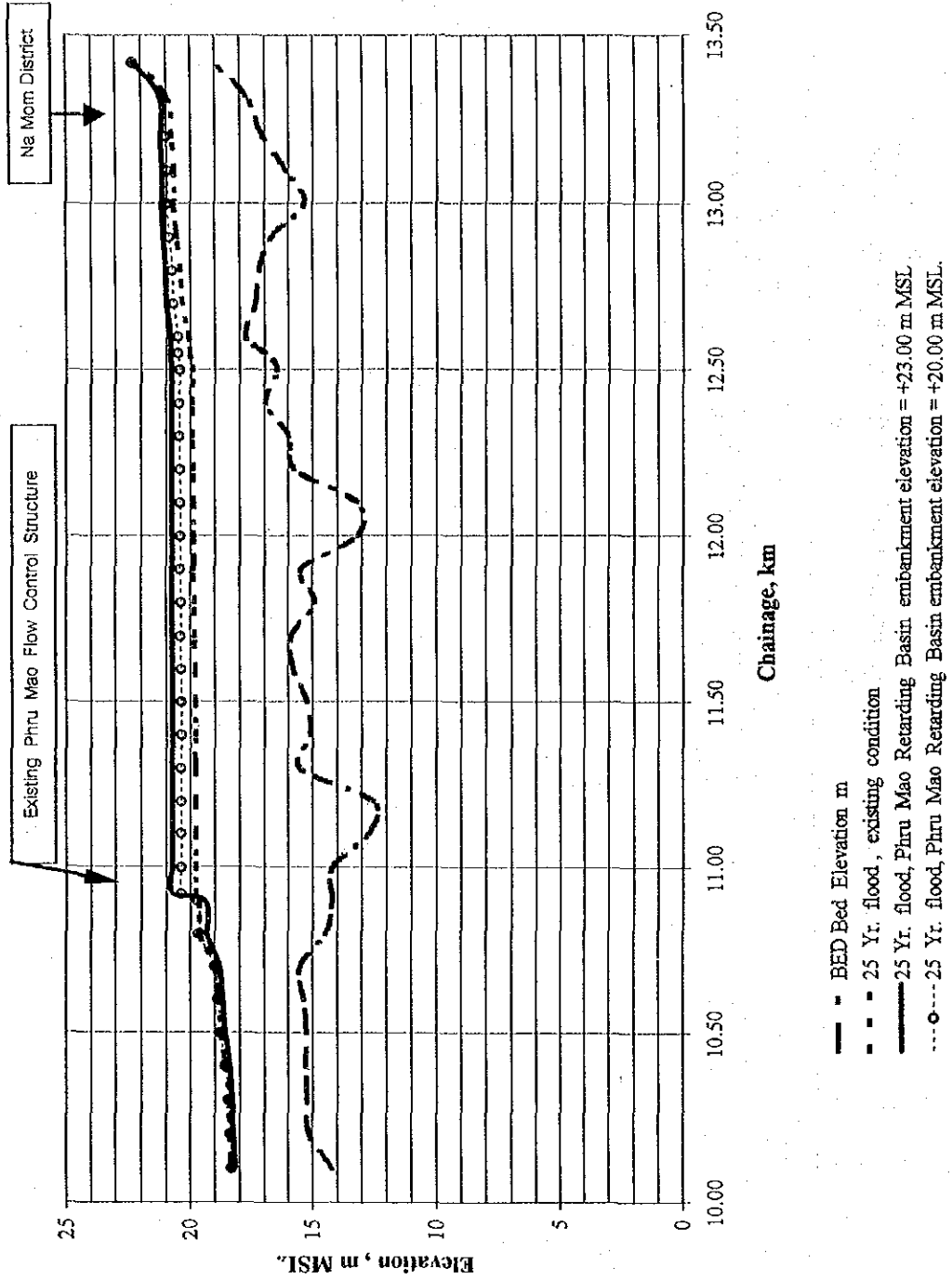


Fig. 4.2.4

Maximum Water Level after Phru Mao Retarding Basin Construction

The Combined Effect of Retarding Basin and Flood Control Dam at Station X.174

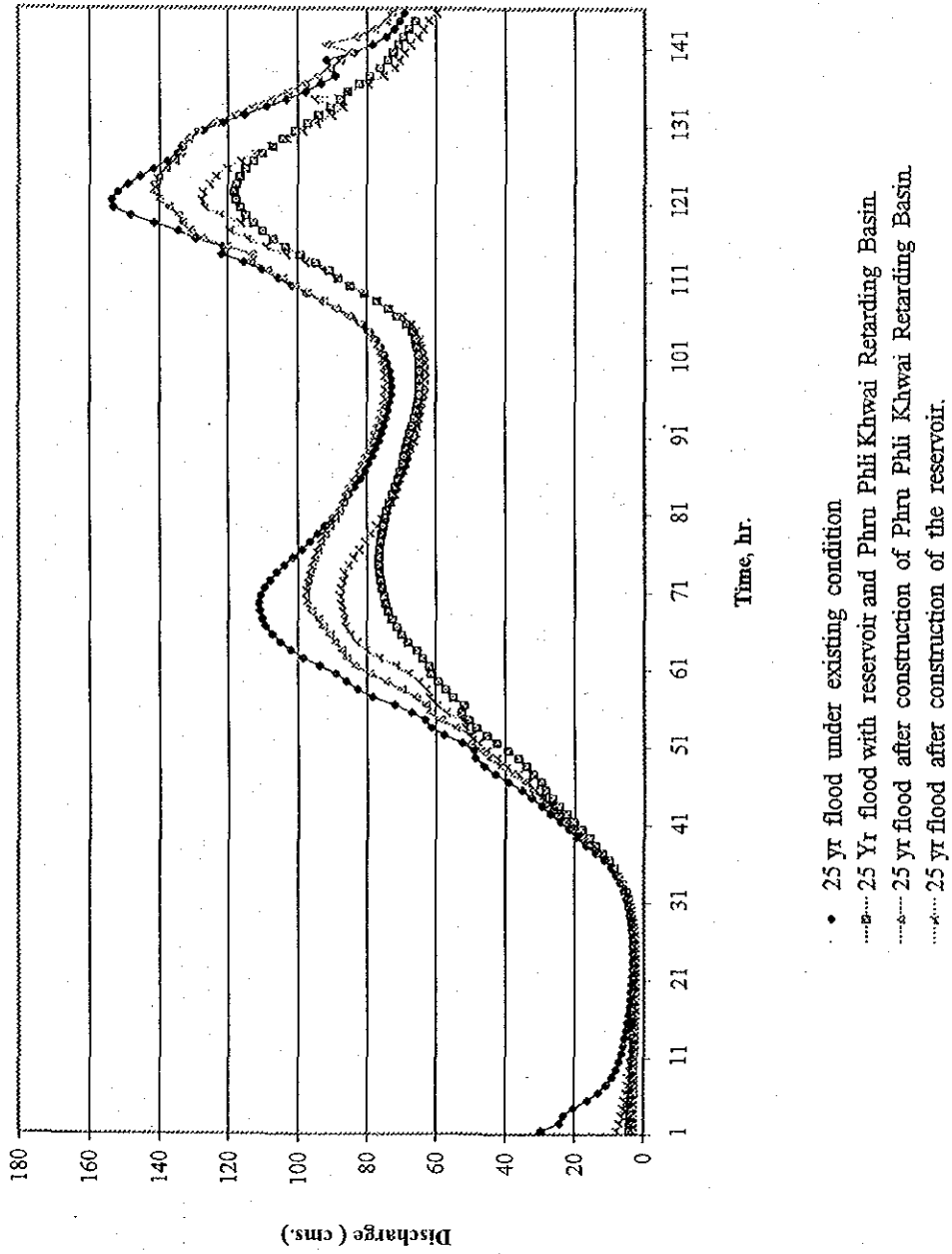


Fig. 4.3-1

Combined Effect of Retarding Basin and Flood Control Dam at Sta.X.174

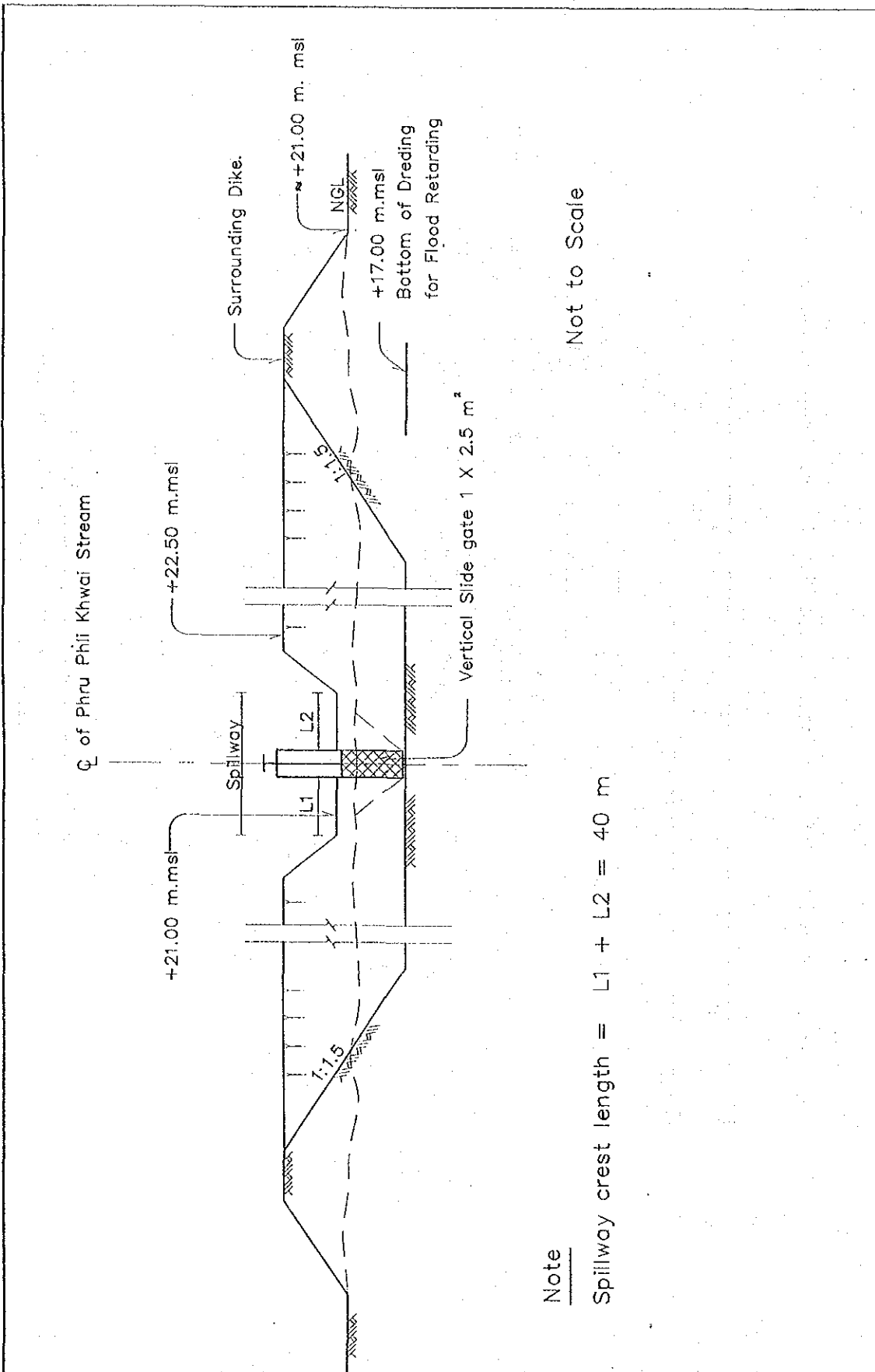


Fig. 4.4-1 Conceptual view of Phru Phli Khwai Cross Section and Outlet Structure.(looking downstream)

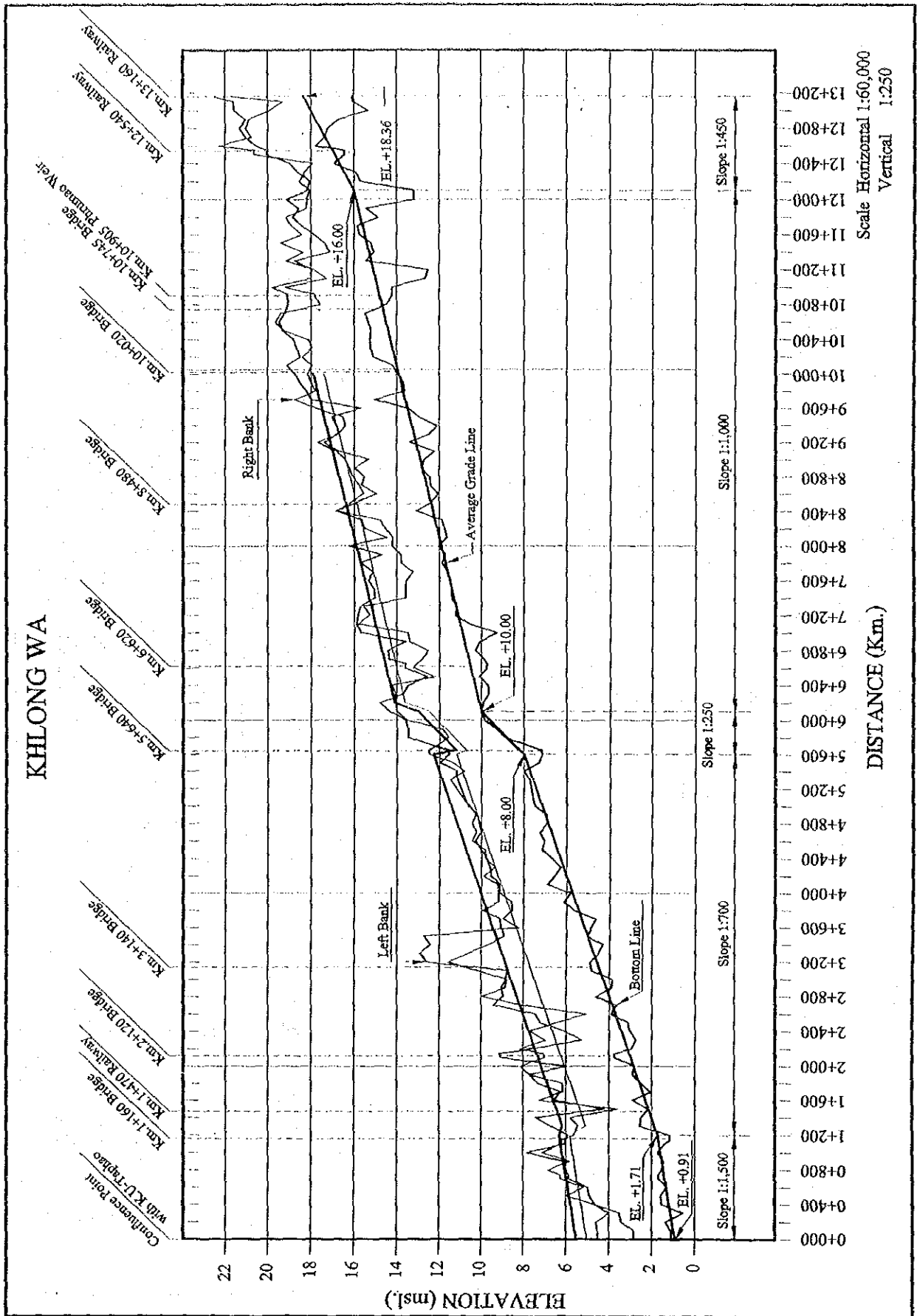


Fig. 5.1-1

Profile and Average Grade Line along Khlong Wa

Existing Capacity

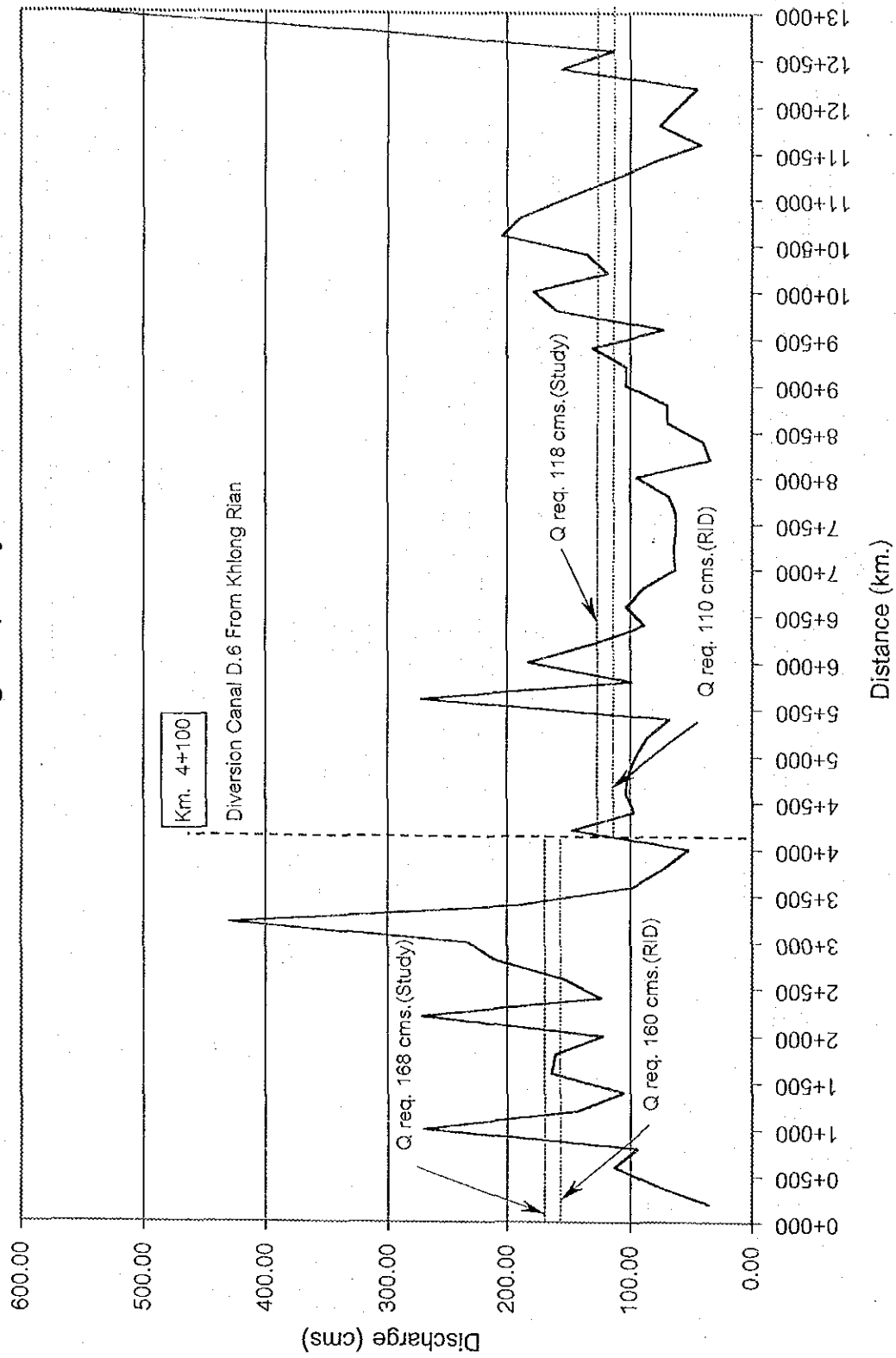
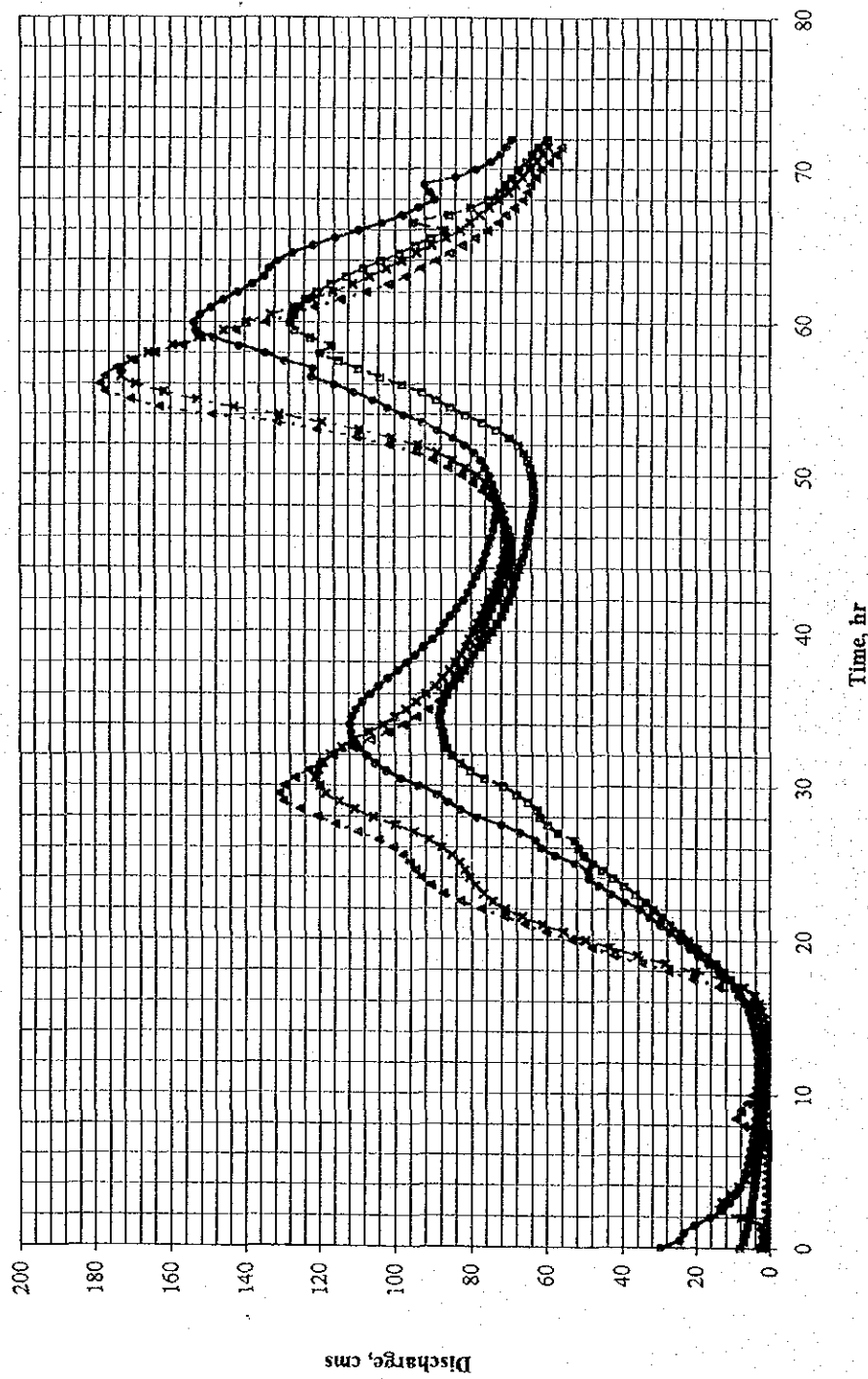


Fig. 5.1-2

Existing Capacity along Khlong Wa

Discharge at St. XI74



—●— 25-yr flood, existing condition - - - ■ - - - 25-yr flood, reservoir - · - · - · 25-yr flood, diking - - - × - - - 25-yr flood, channel widening & dredging

Fig. 5.2-2

Flood Hydrograph at Kanchanavanich Road

Impact of Channel Improvement and Construction of Dikes

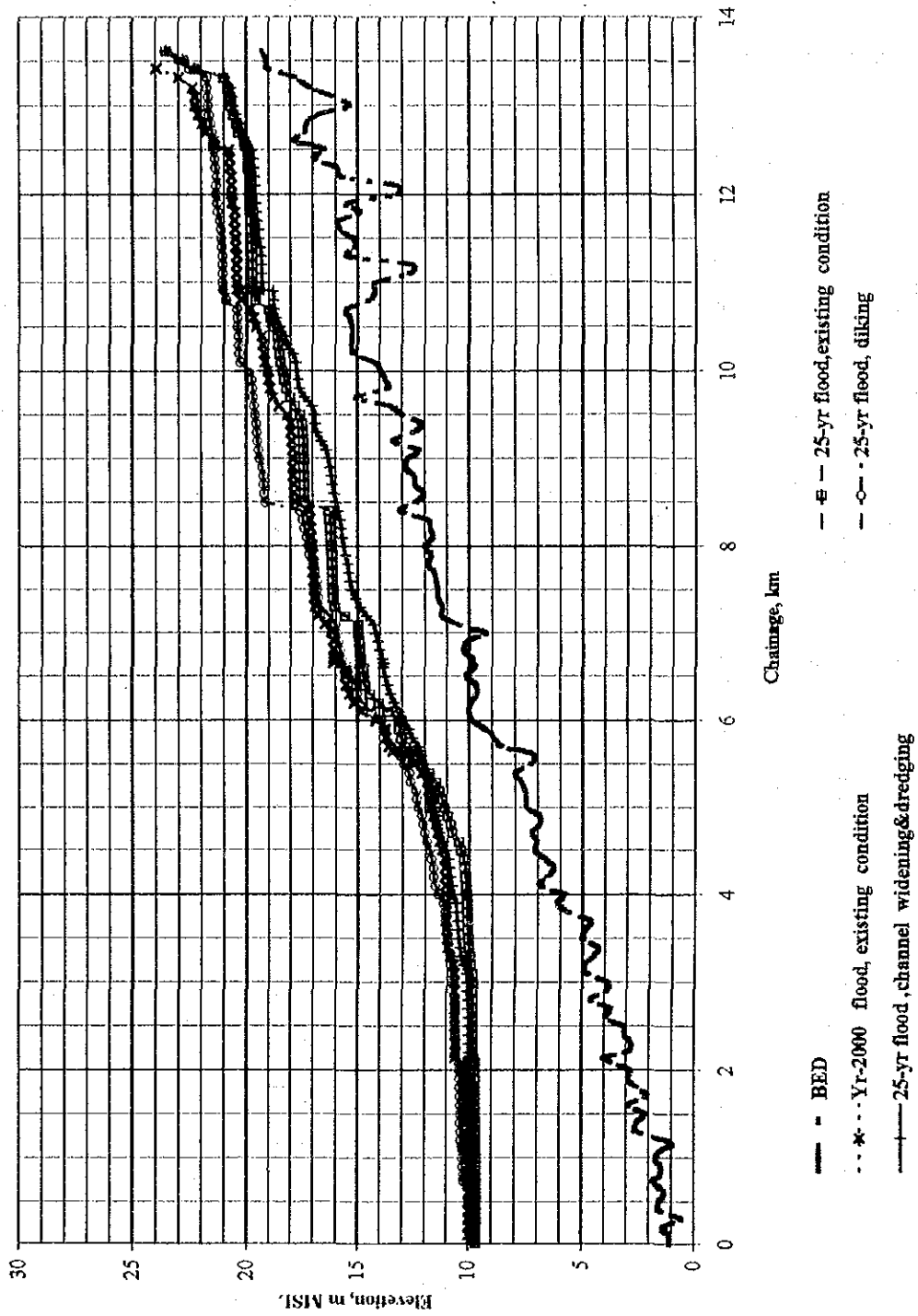


Fig 5.2-3

Maximum Water Level in Khlong Wa

Water Level in Khlong Wa under influence of Khlong U-Taphao Water Level

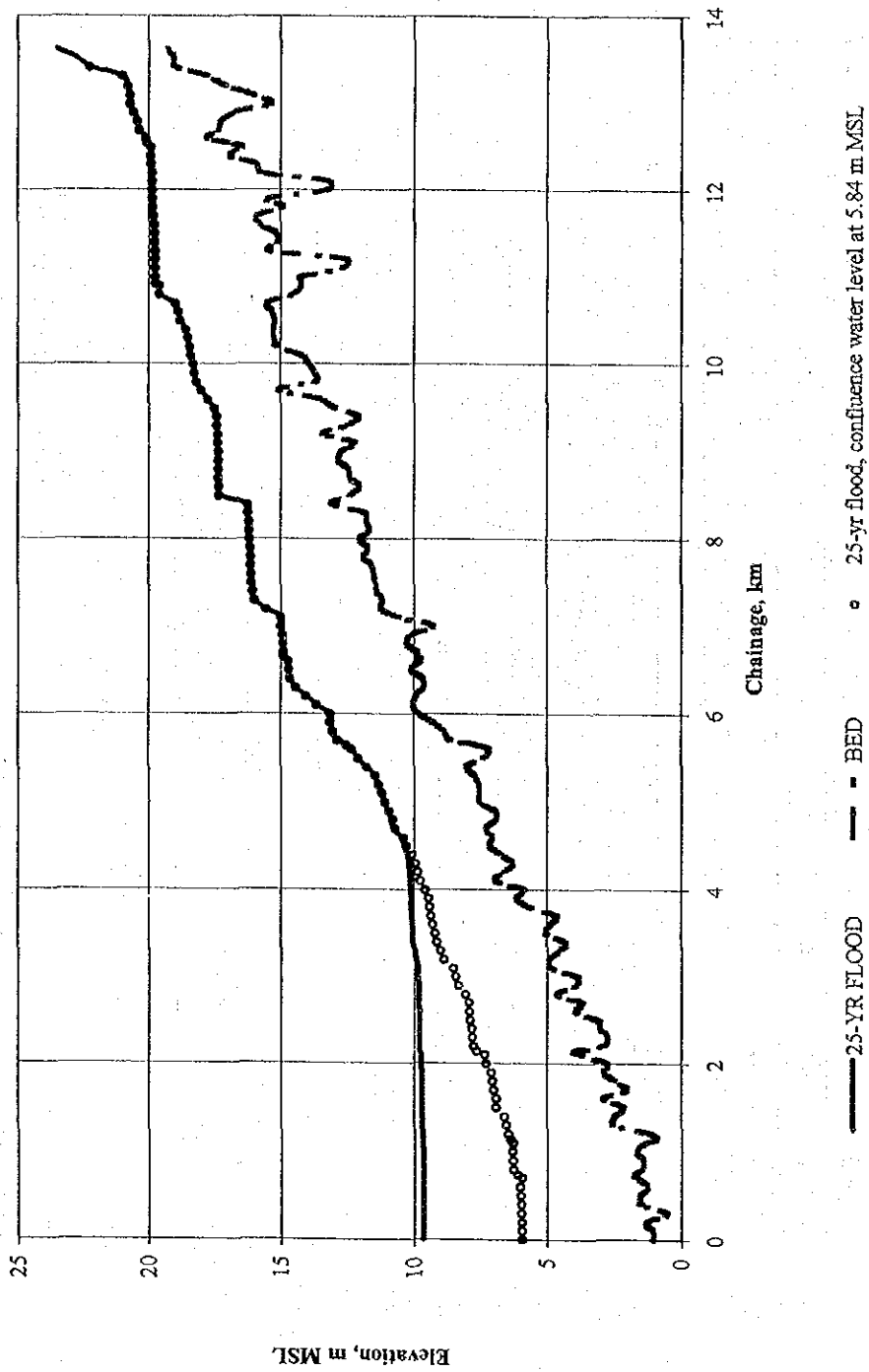


Fig. 5.2-4

Water Level in Khlong Wa under different water level in Khlong U Taphao

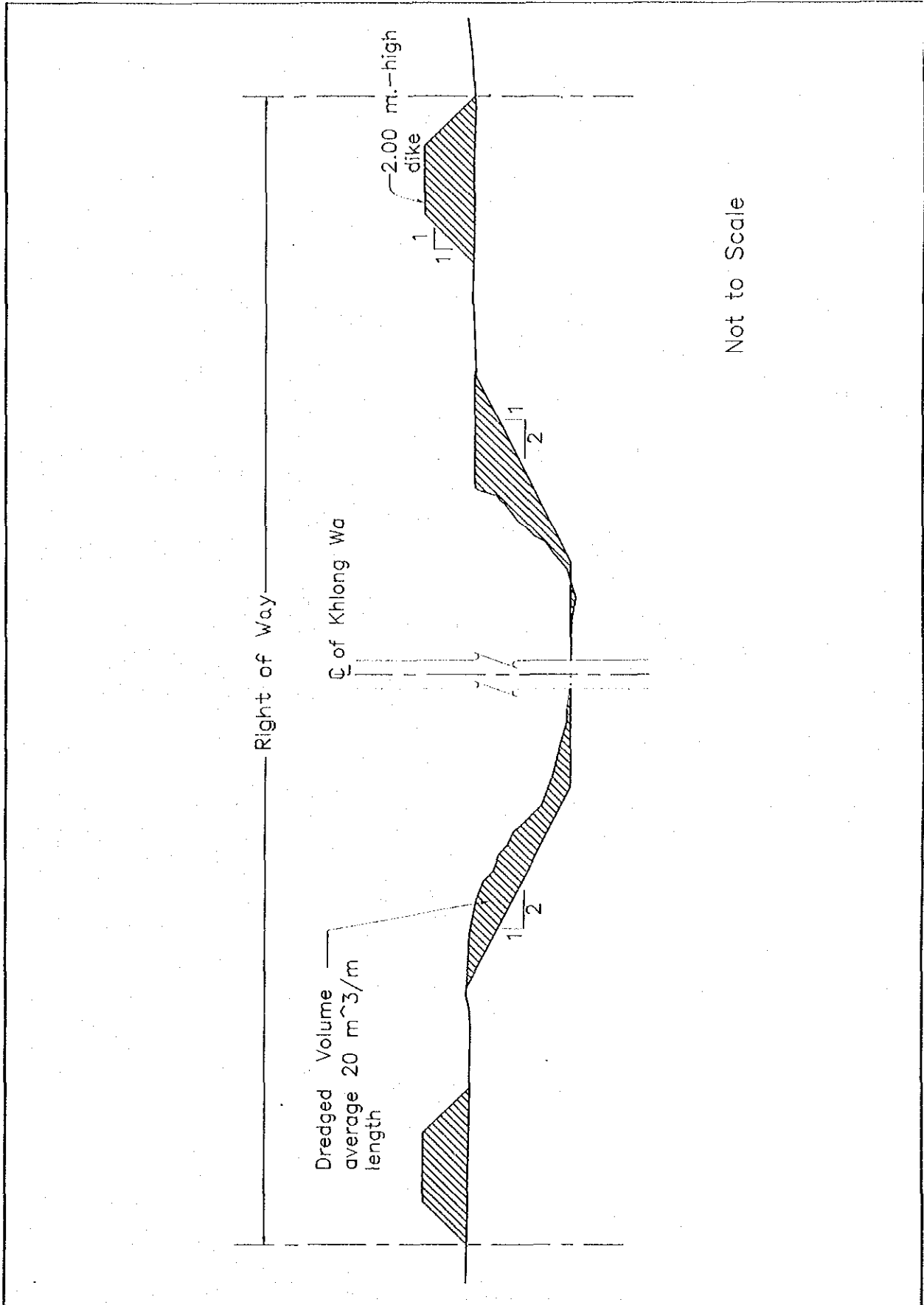


Fig. 5.3-1

Typical Concept of Khlong Wa Dredging Improvement

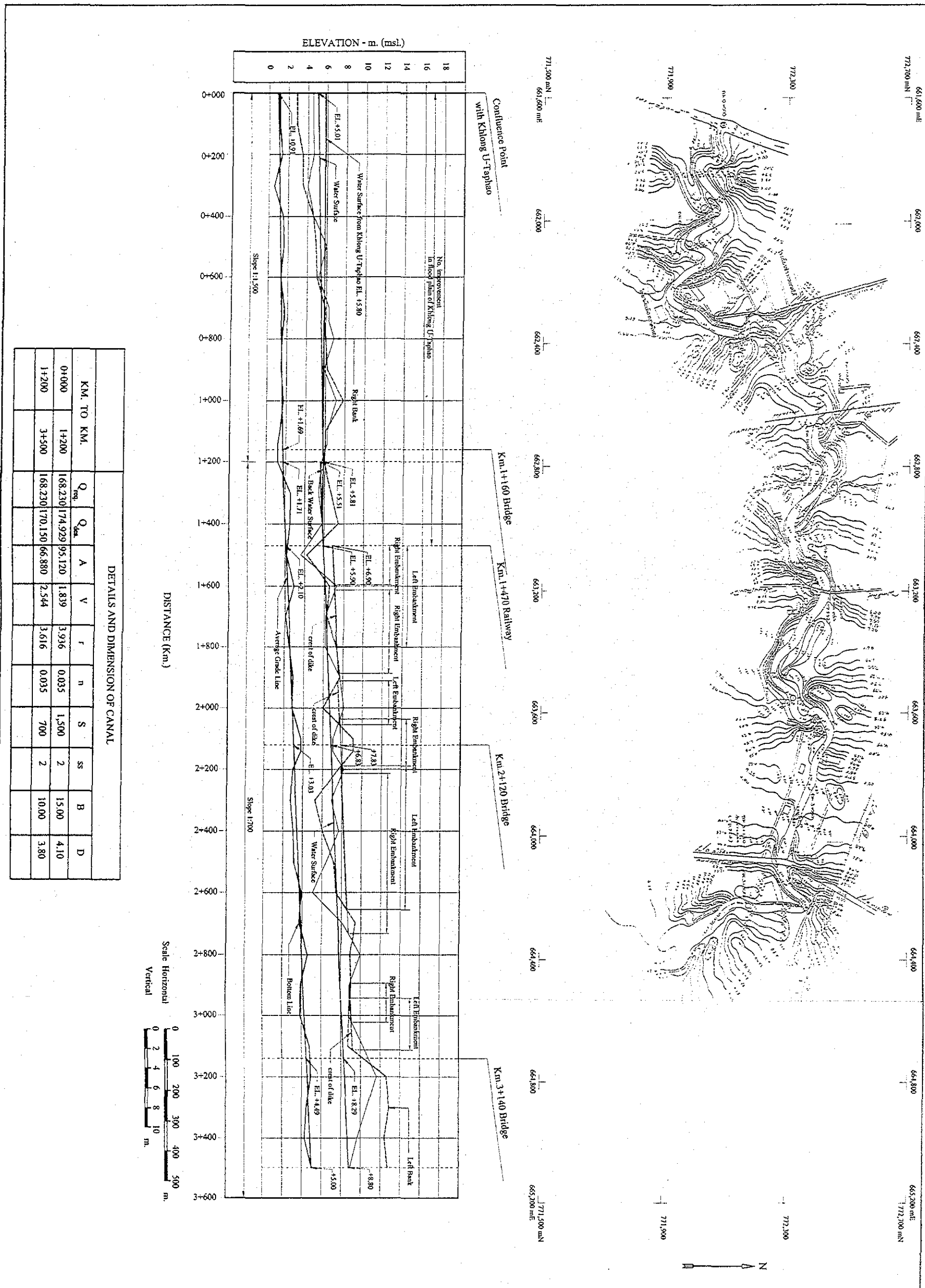
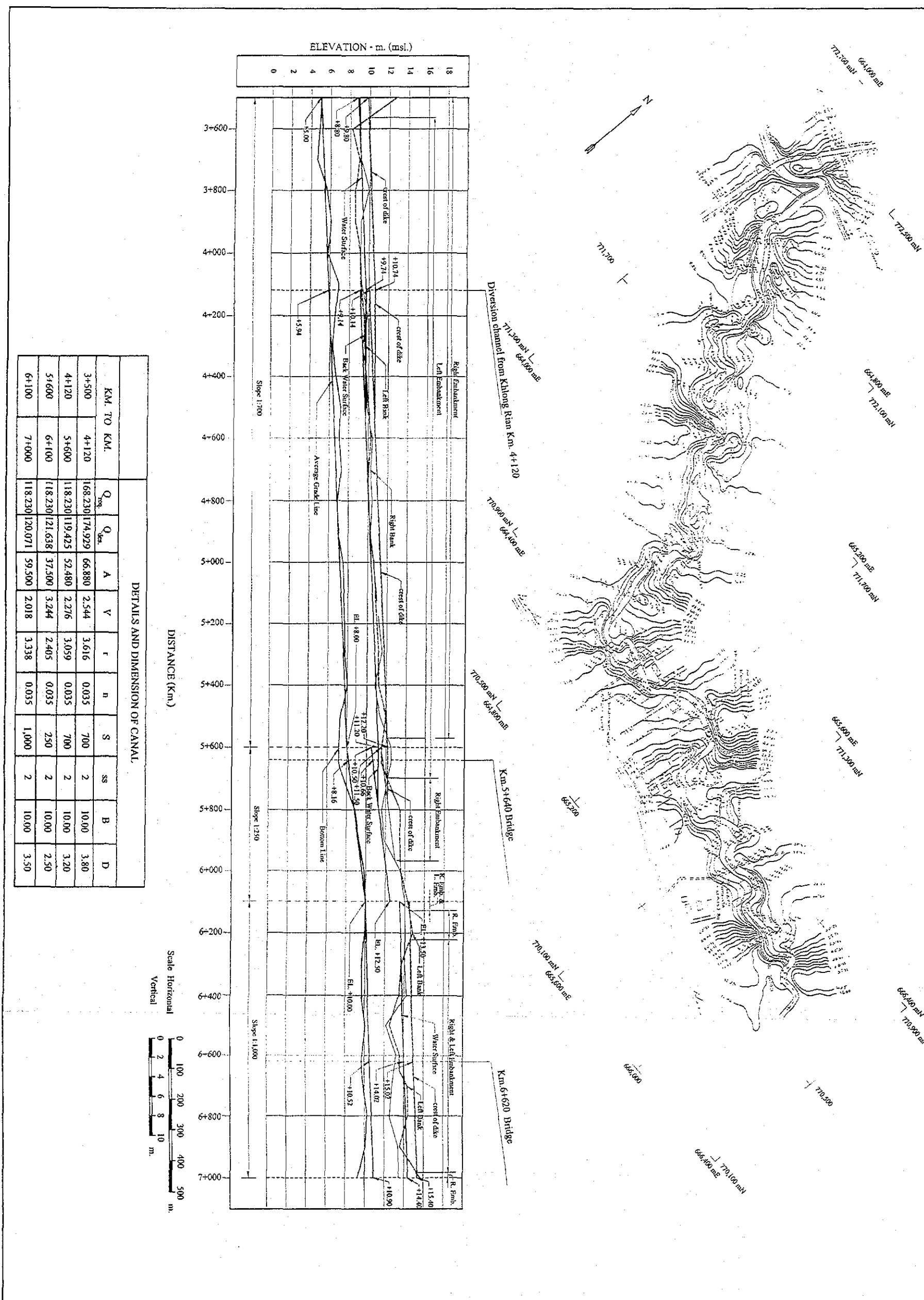


Fig. 5.3-2

Plan & Profile of Khlong Wa Sta. 0+000 - Sta. 3+500



KM. TO KM.		DETAILS AND DIMENSION OF CANAL									
		Q _{req.}	Q _{des.}	A	V	r	n	S	SS	B	D
3+500	4+120	168.230	174.929	66.880	2.544	3.616	0.035	700	2	10.00	3.80
4+120	5+600	118.230	119.425	52.480	2.276	3.059	0.035	700	2	10.00	3.20
5+600	6+100	118.230	121.638	37.500	3.244	2.405	0.035	250	2	10.00	2.50
6+100	7+000	118.230	120.071	59.500	2.018	3.338	0.035	1,000	2	10.00	3.50

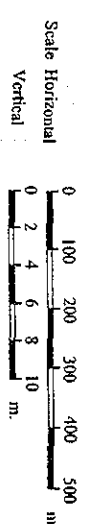
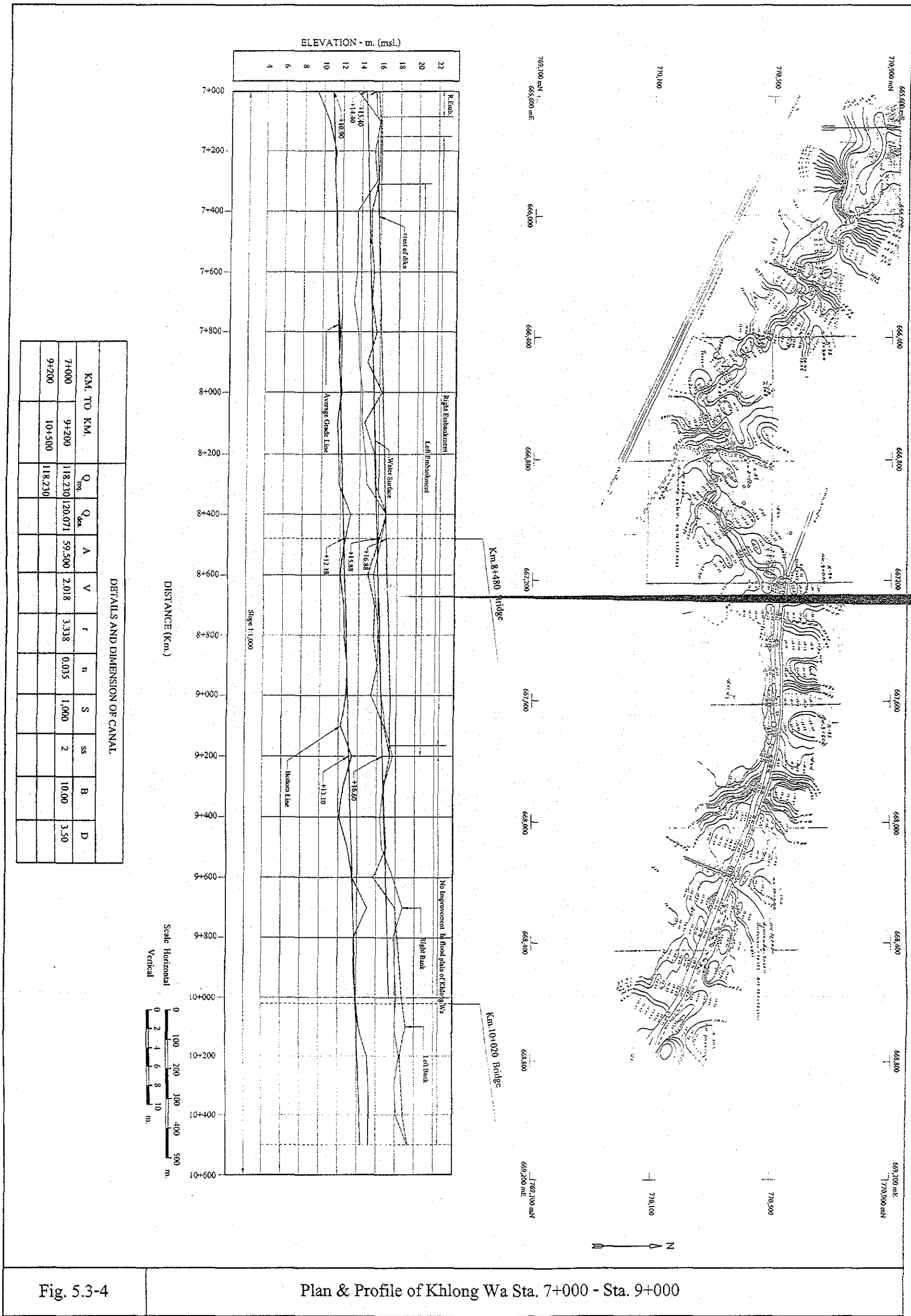


Fig. 5.3-3

Plan & Profile of Khlong Wa Sta. 3+500 - Sta. 7+000



DETAILS AND DIMENSION OF CANAL

KM. TO KM.	Q_{top}	Q_{bot}	A	V	f	n	S	ss	B	D
7+000	118.230	120.071	59.500	2.018	3.338	0.035	1.000	2	10.00	3.50
9+200	118.230									

Fig. 5.3-4

Plan & Profile of Khlong Wa Sta. 7+000 - Sta. 9+000

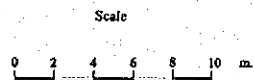
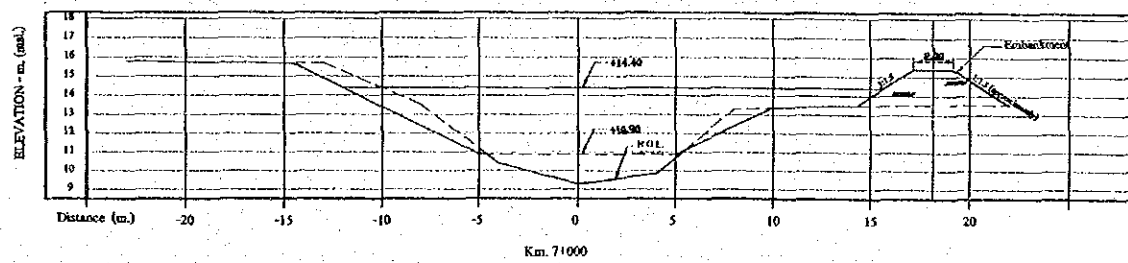
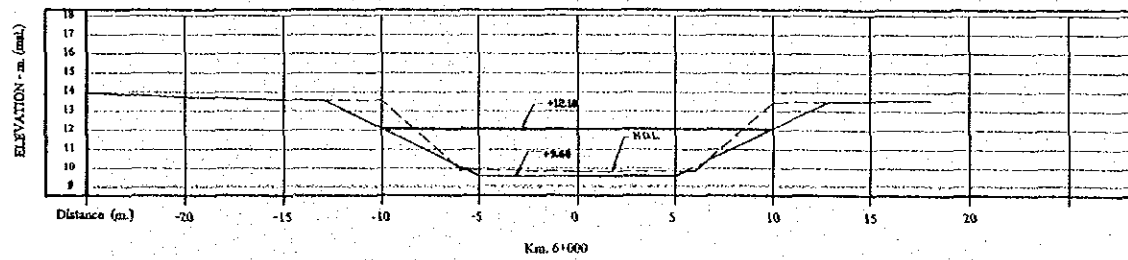
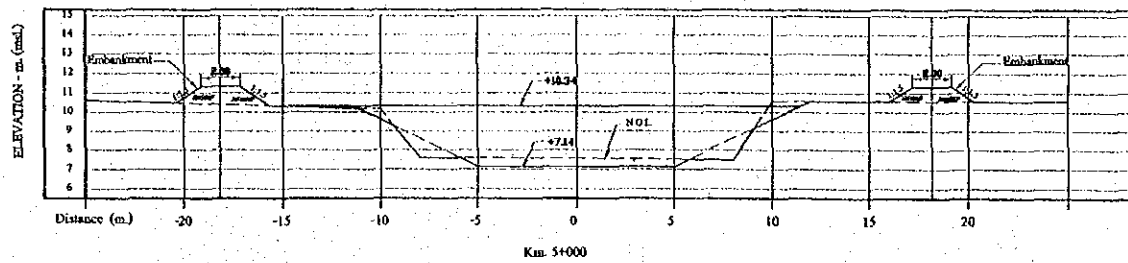
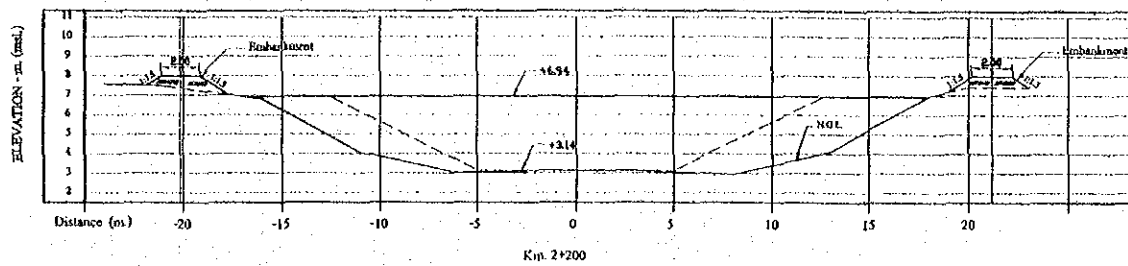


Fig.5.3-5

Cross - Section of Khlong Wa (Sample)

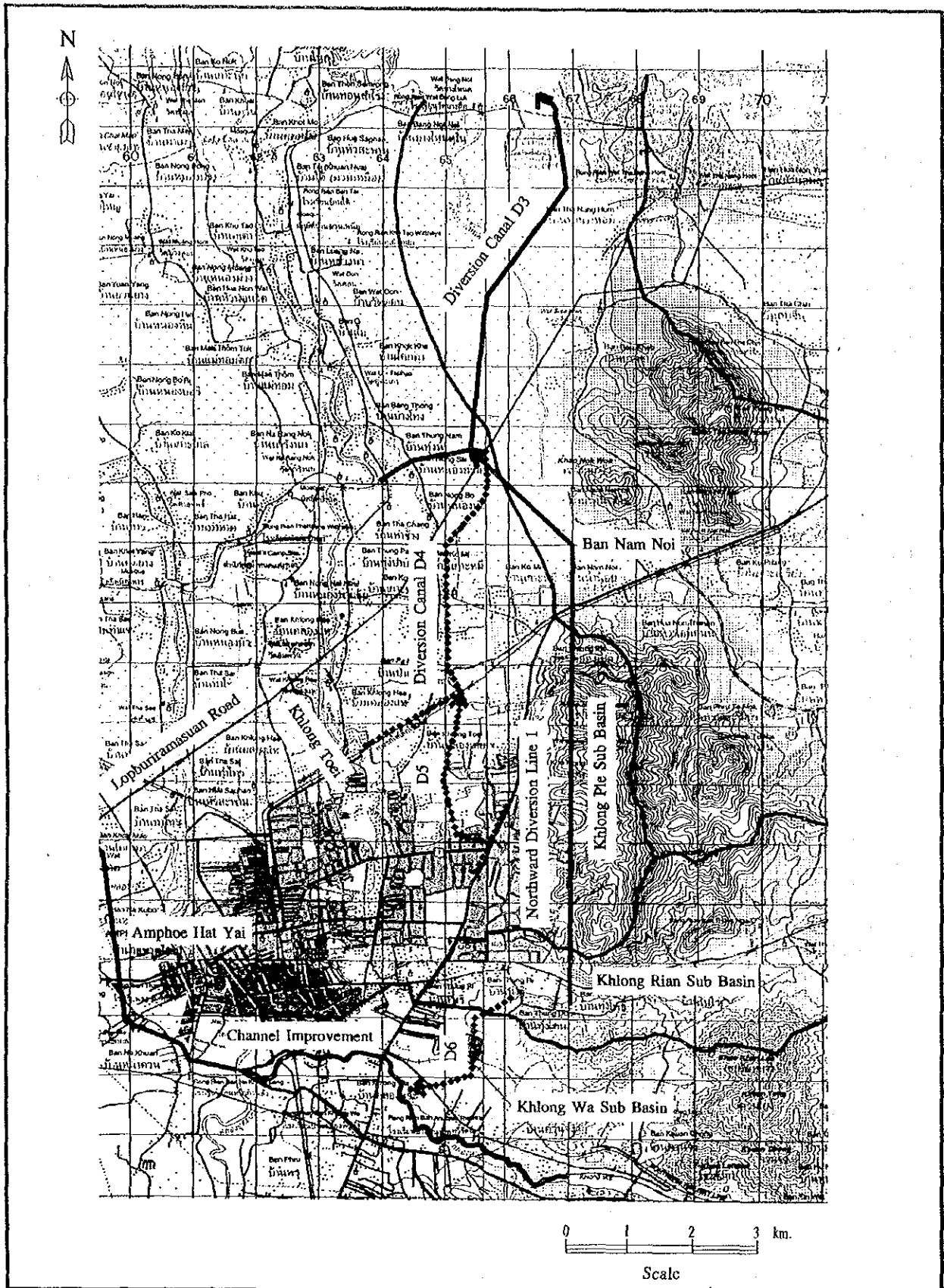


Fig. 6.2-1

Location of The Northward Diversion Line No.1

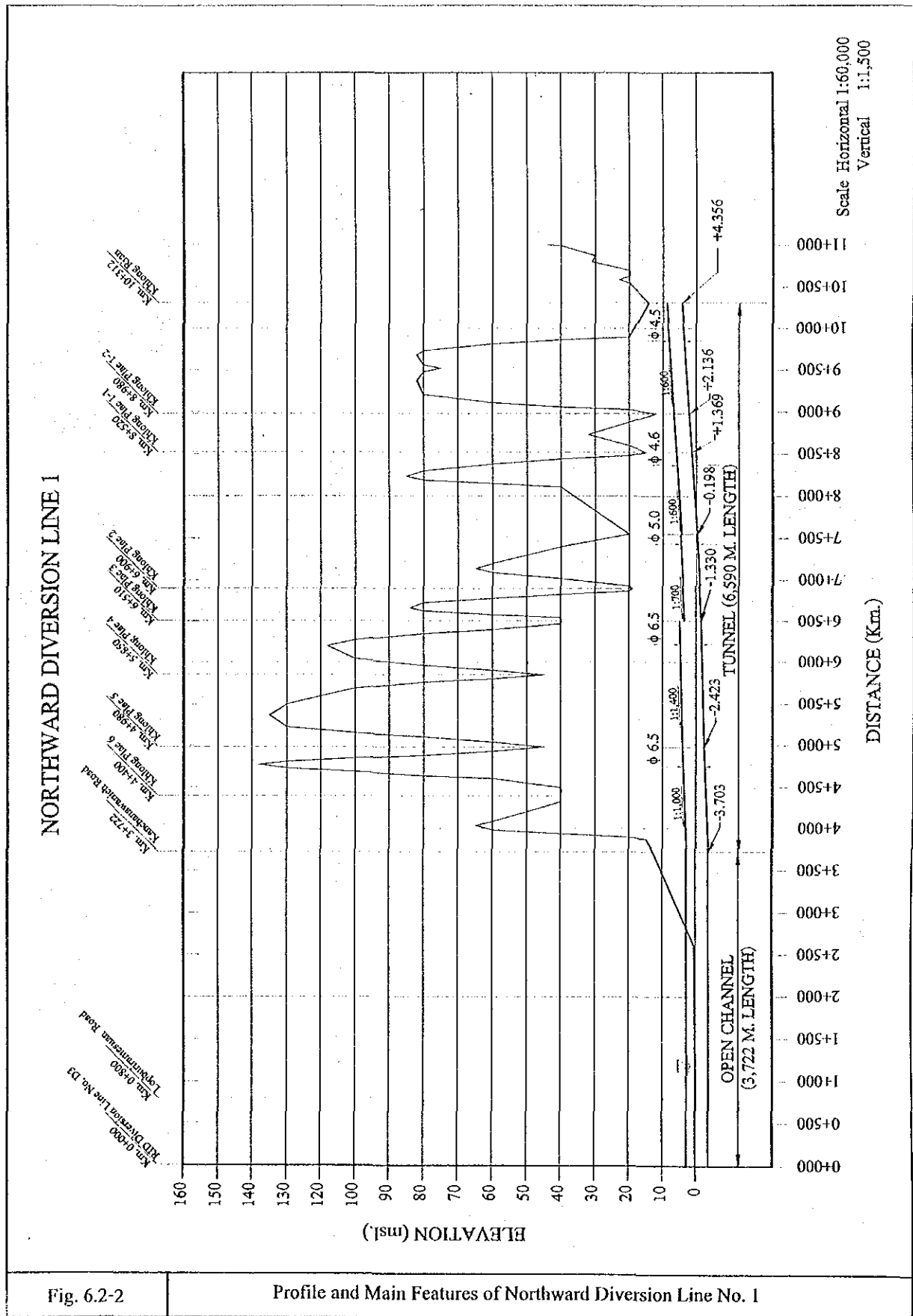


Fig. 6.2-2

Profile and Main Features of Northward Diversion Line No. 1

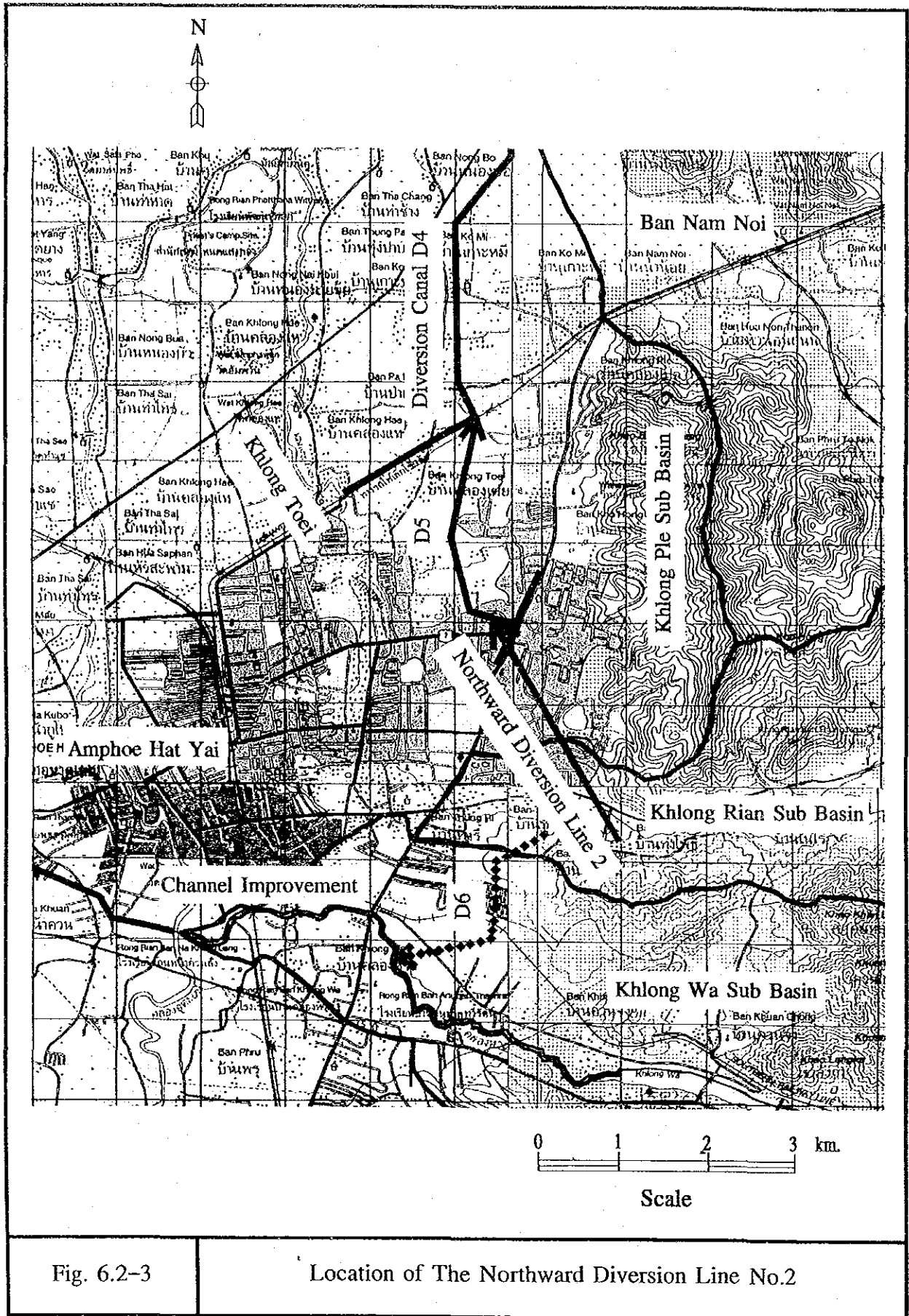
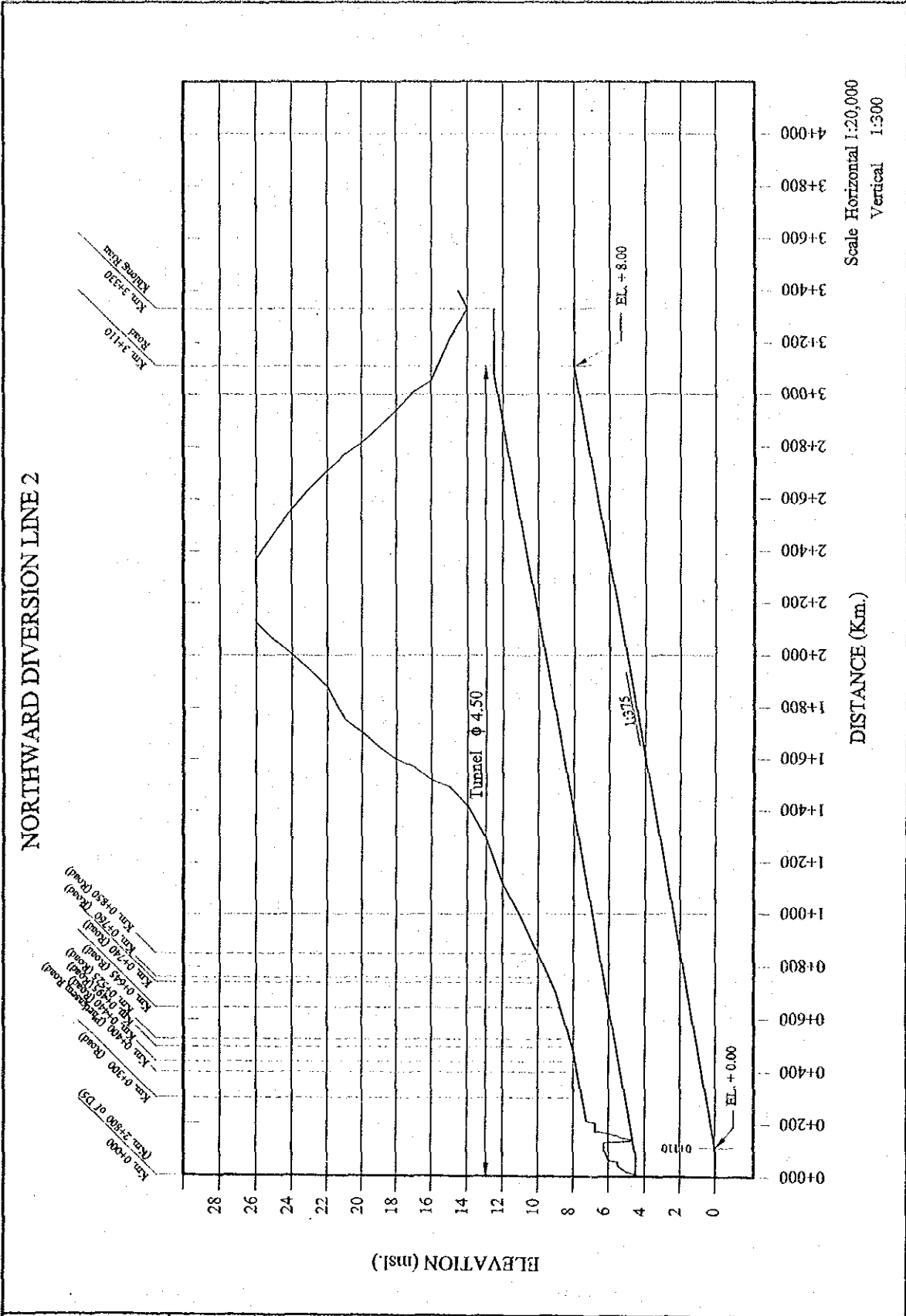


Fig. 6.2-3

Location of The Northward Diversion Line No.2



NORTHWARD DIVERSION LINE 2

Fig. 6.2-4

Profile and Main Features of Northward Diversion Line No. 2

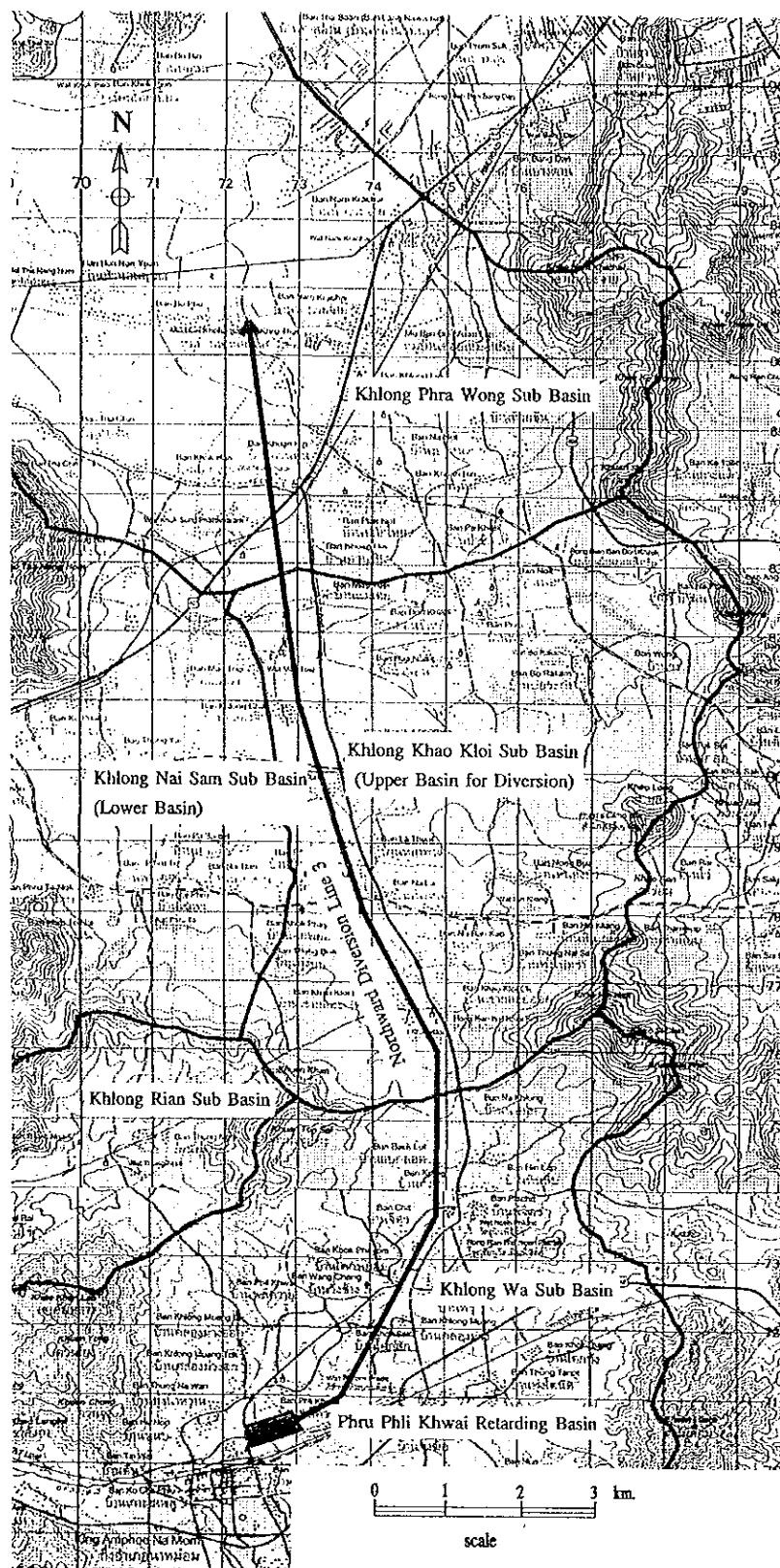


Fig. 6.2-5

Location of The Northward Diversion Line No.3

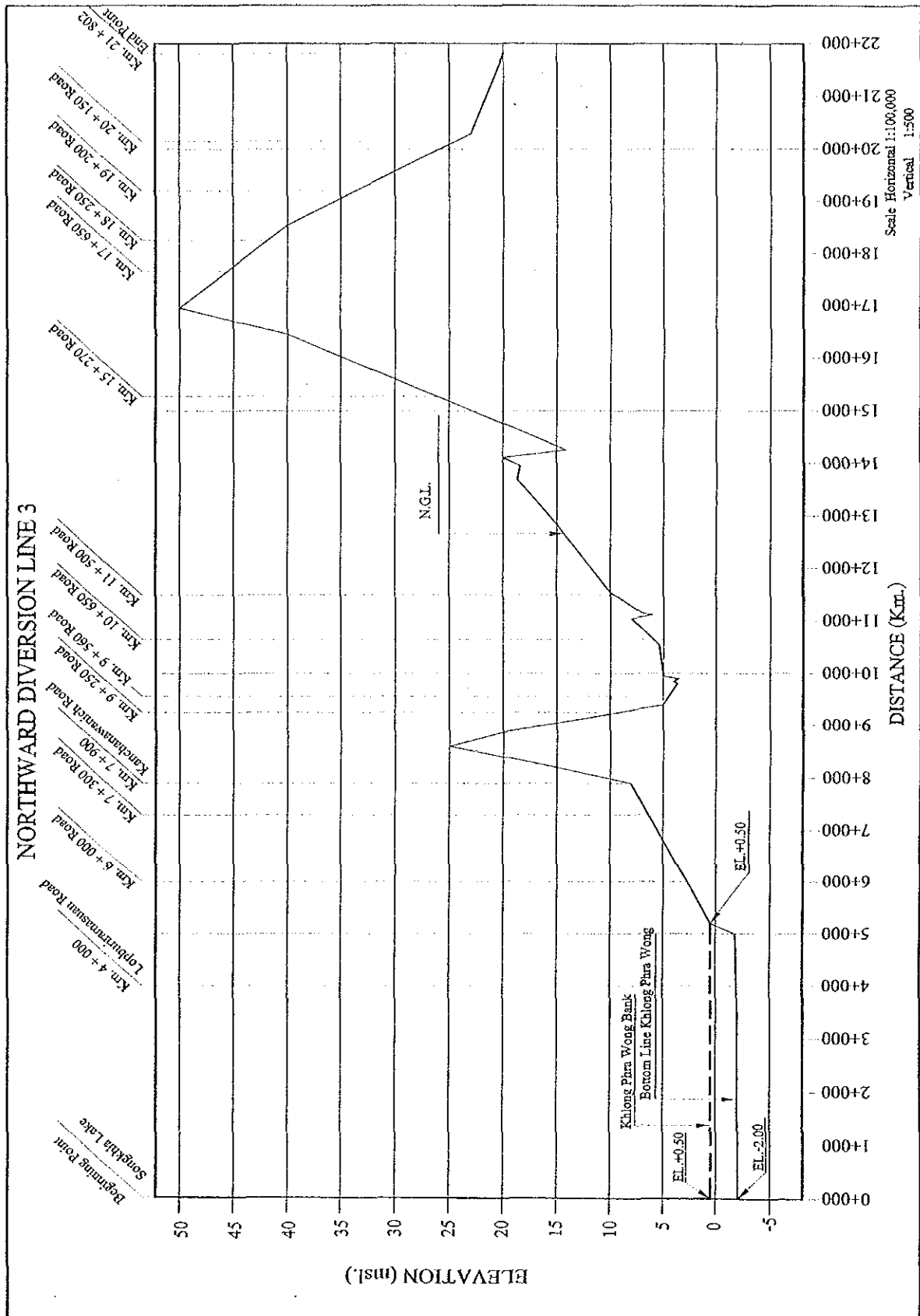
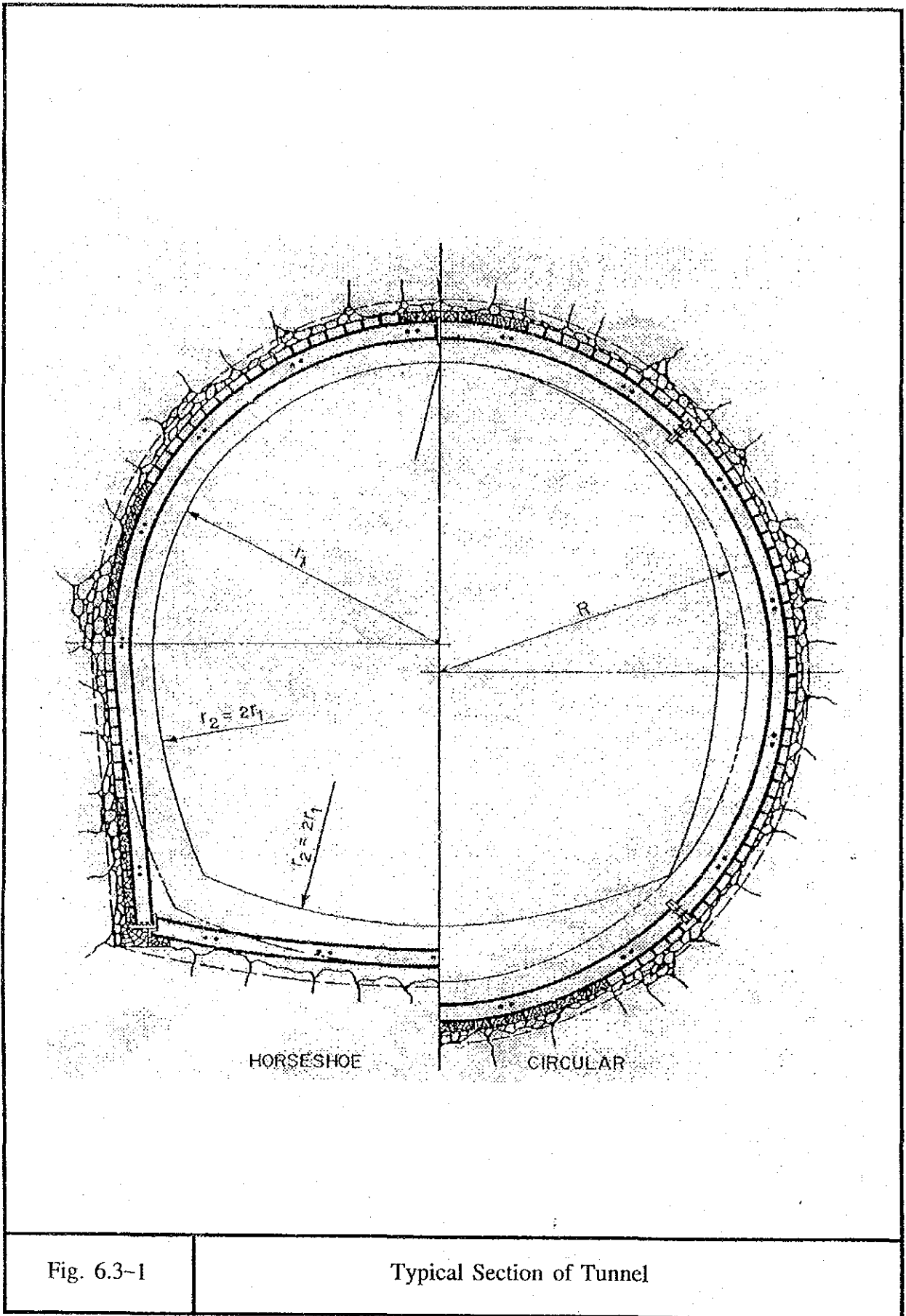
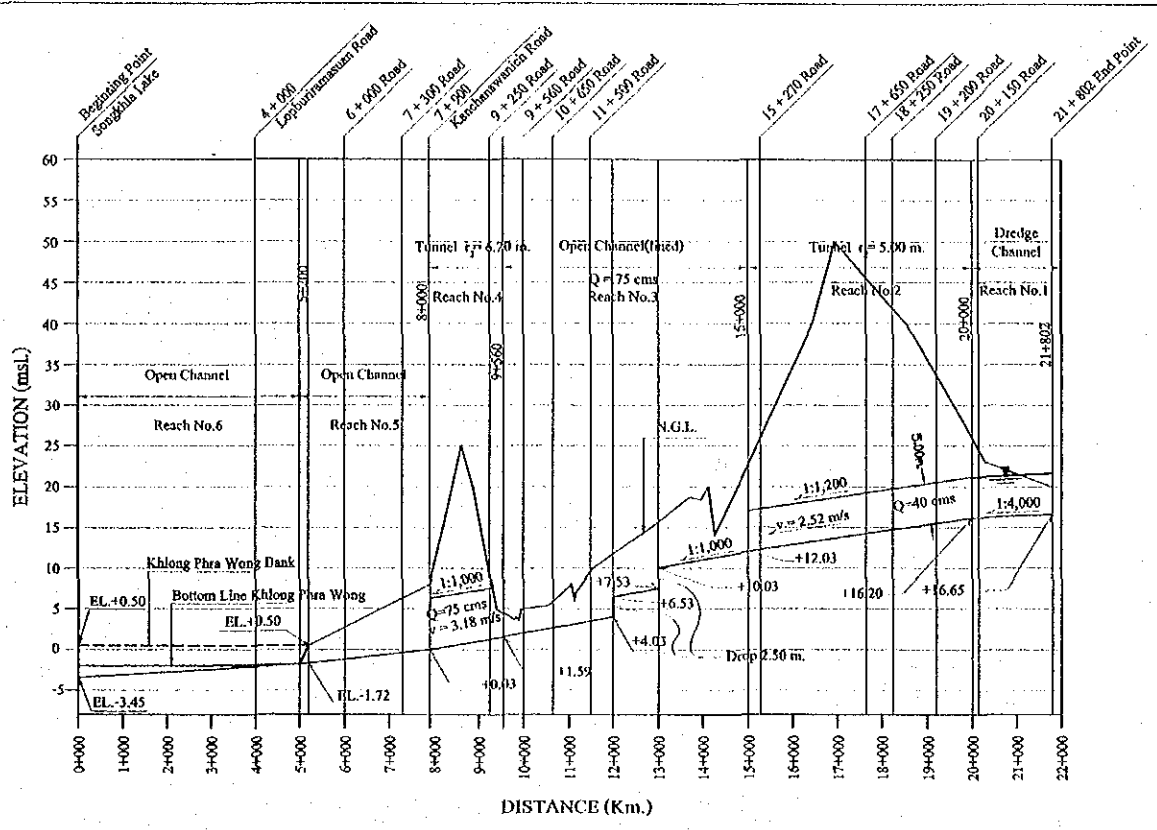


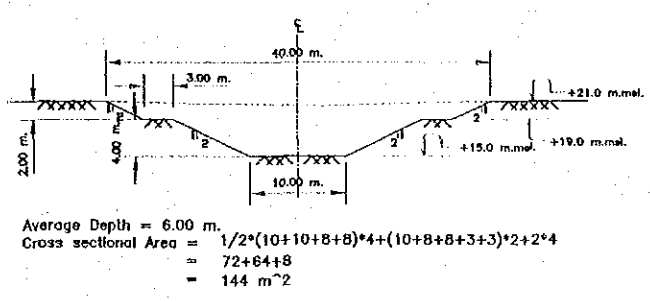
Fig. 6.2-6

Profile of Northward Diversion Line No. 3

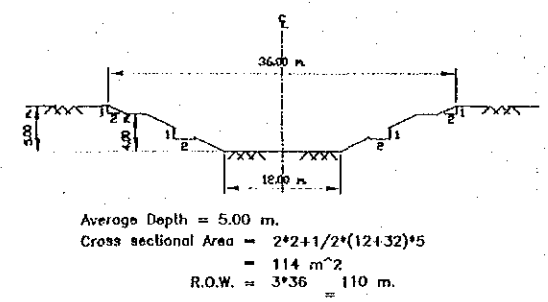




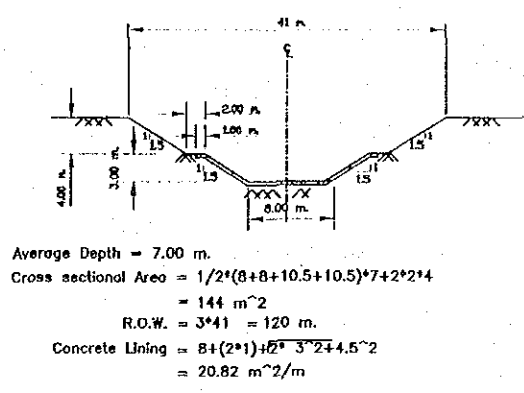
A) Hydraulic Profile of Northward Diversion Line 3



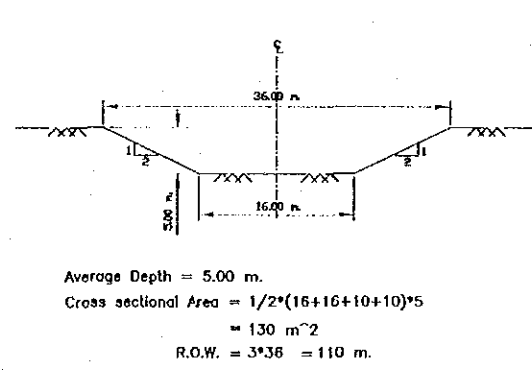
a) Reach No.1



c) Reach No.5



b) Reach No.3



d) Reach No.6

B) Reach Typical Channel Cross sections

Fig. 6.3-2

Hydraulic Profile and Typical channel cross sections of Northward Diversion line 3

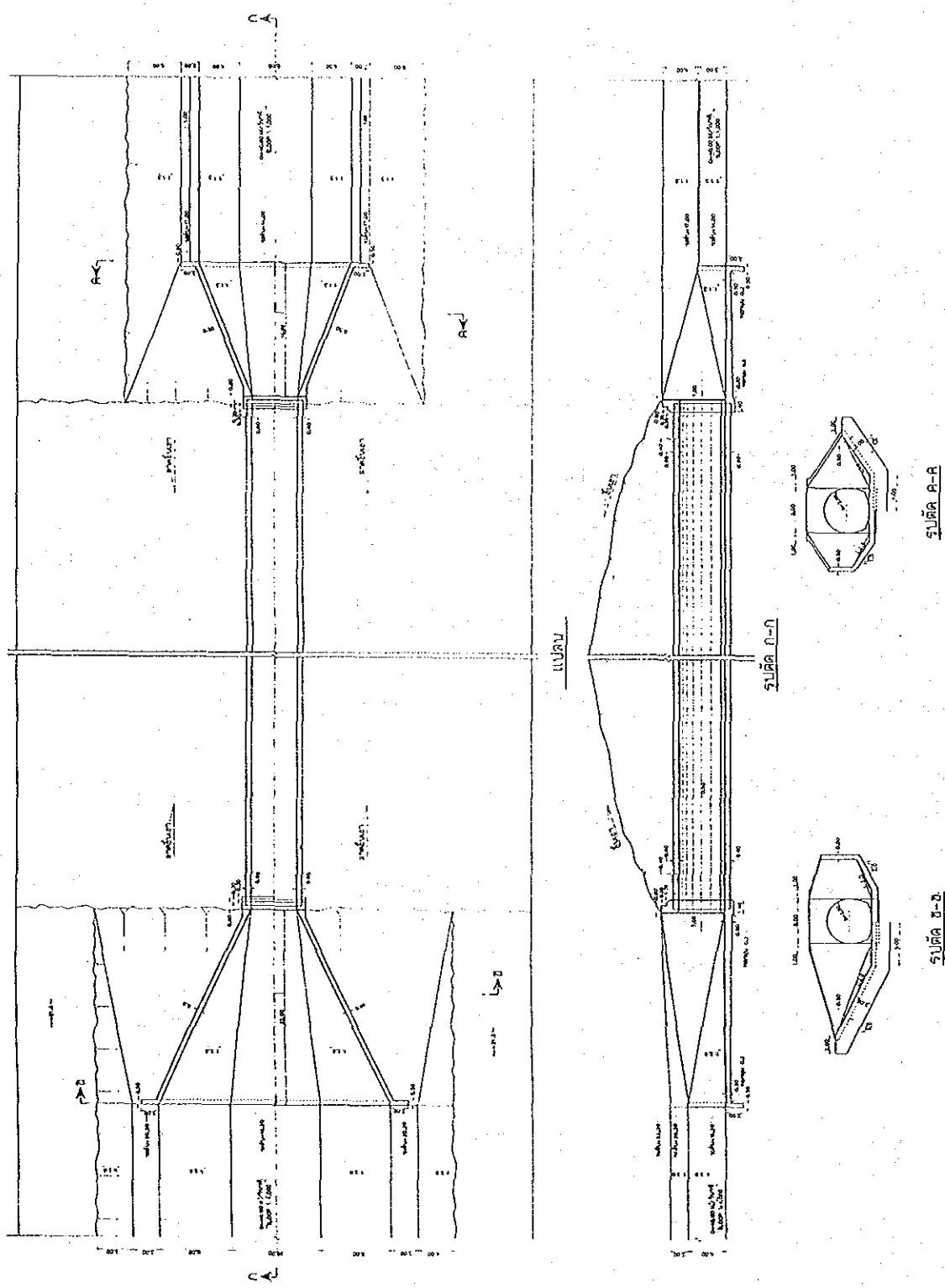


Fig. 6.3-3

Inlet and Outlet Tunnel Structure

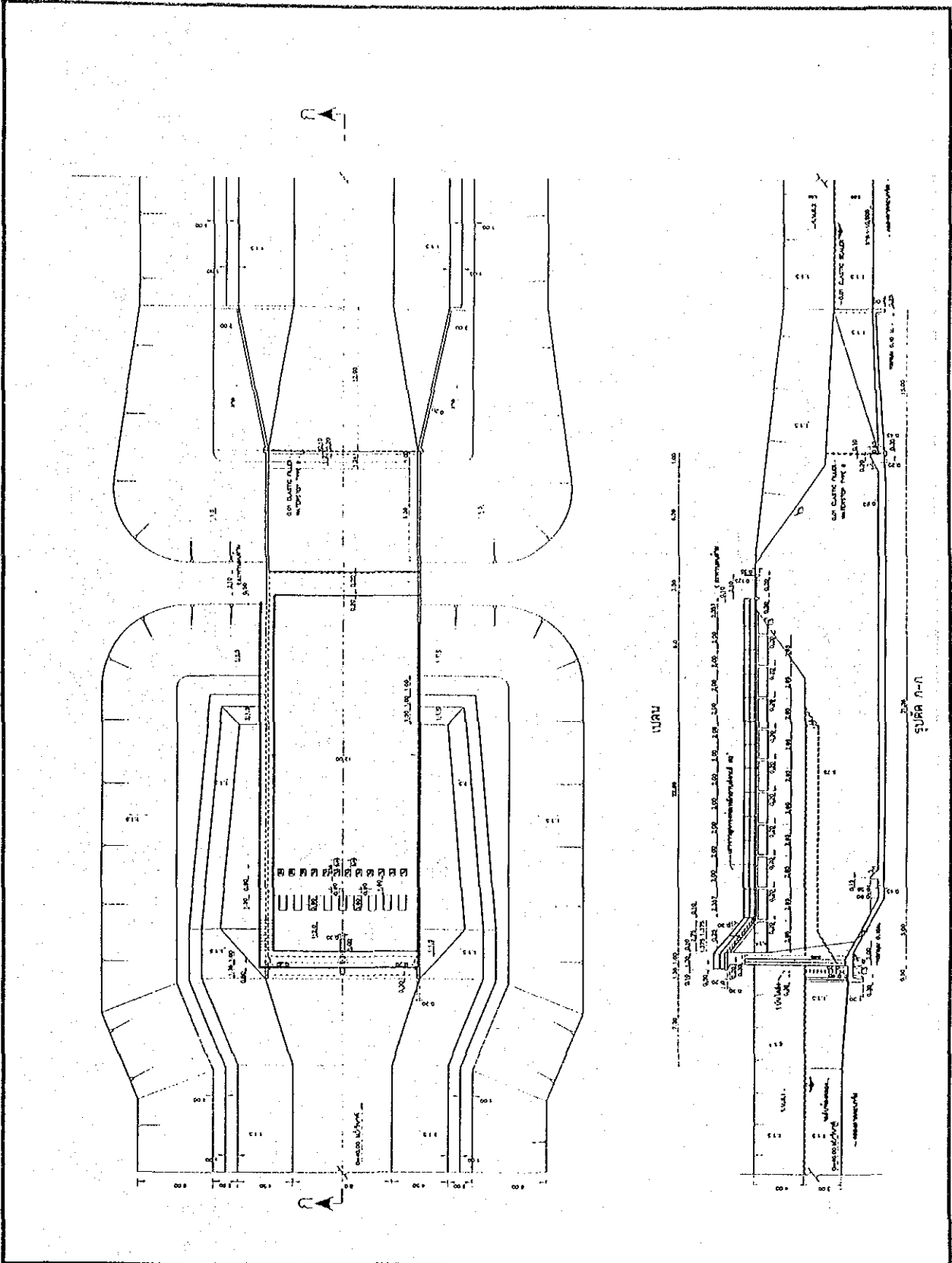


Fig. 6.3-4

Drop Structure

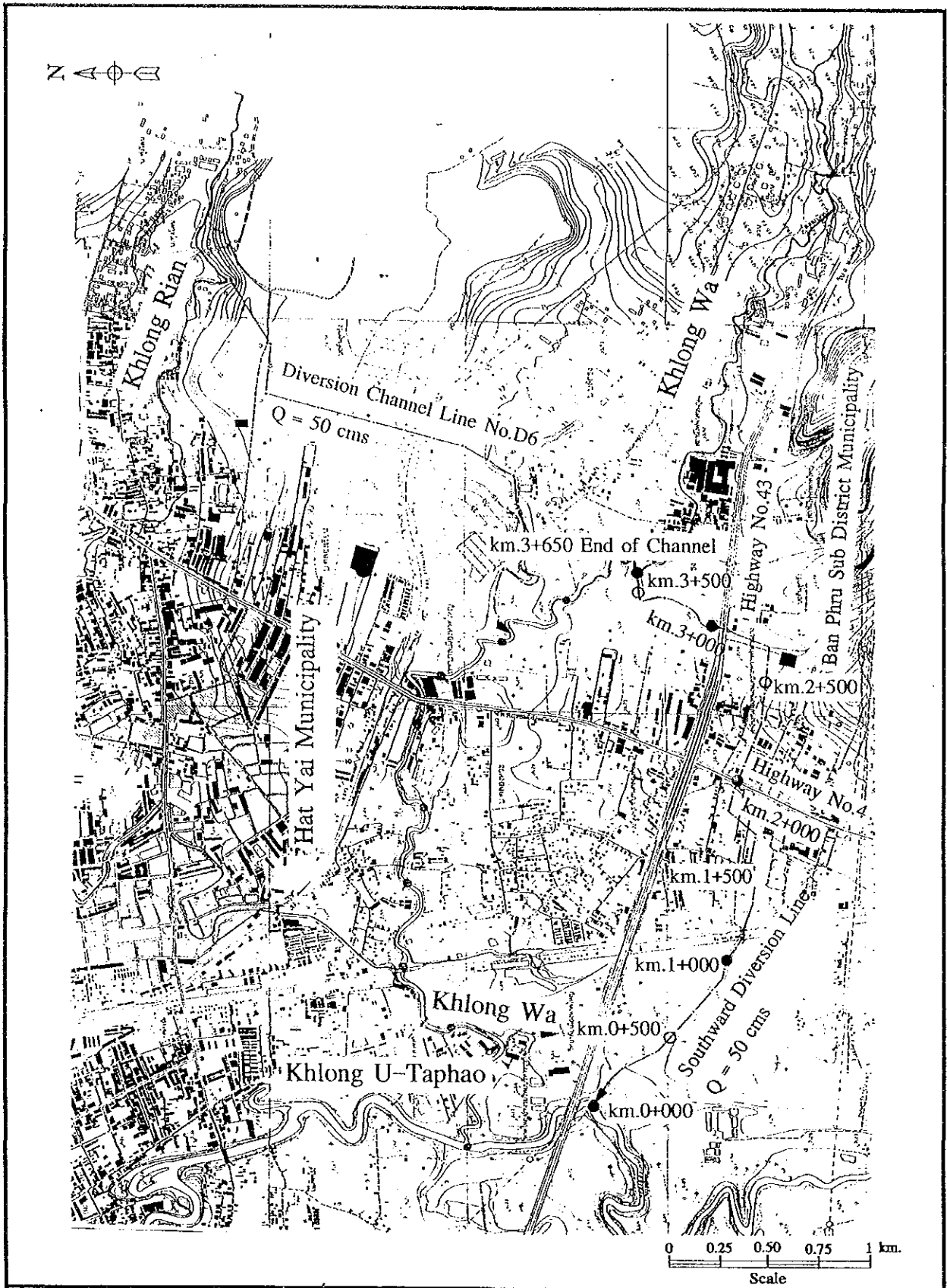


Fig. 7.2-1

Location of The Southward Diversion

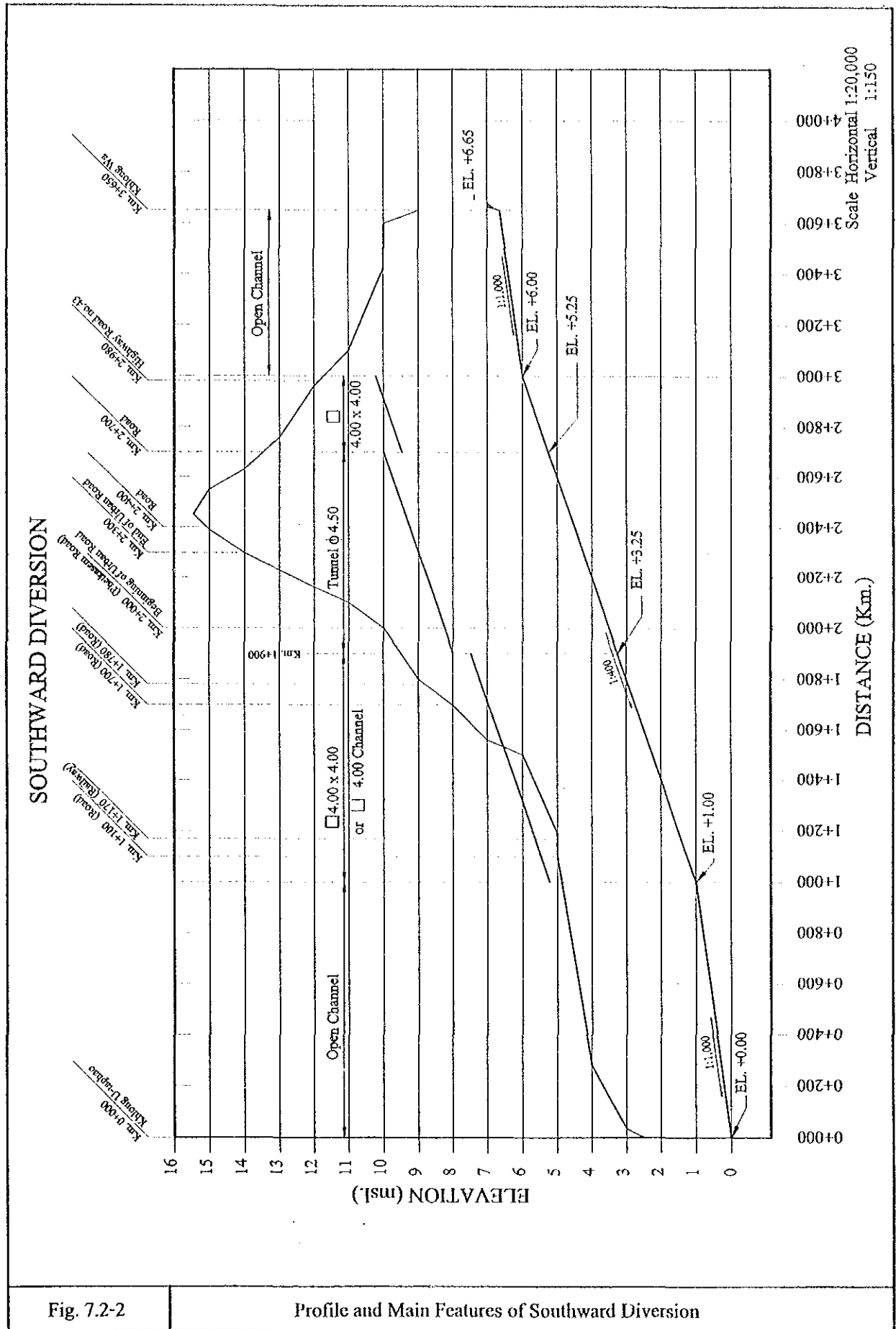


Fig. 7.2-2

Profile and Main Features of Southward Diversion