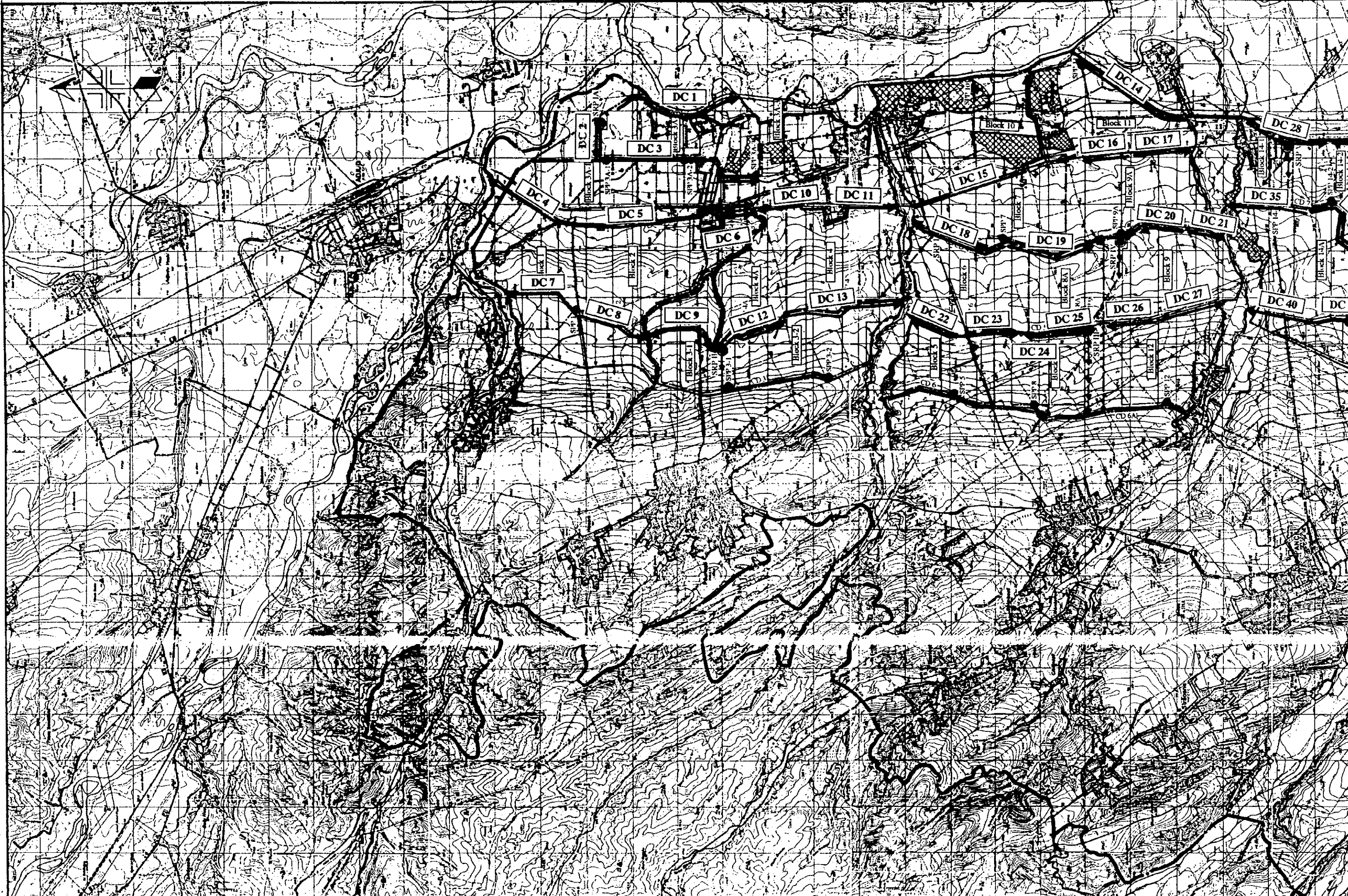


27 15

46 10

46 00

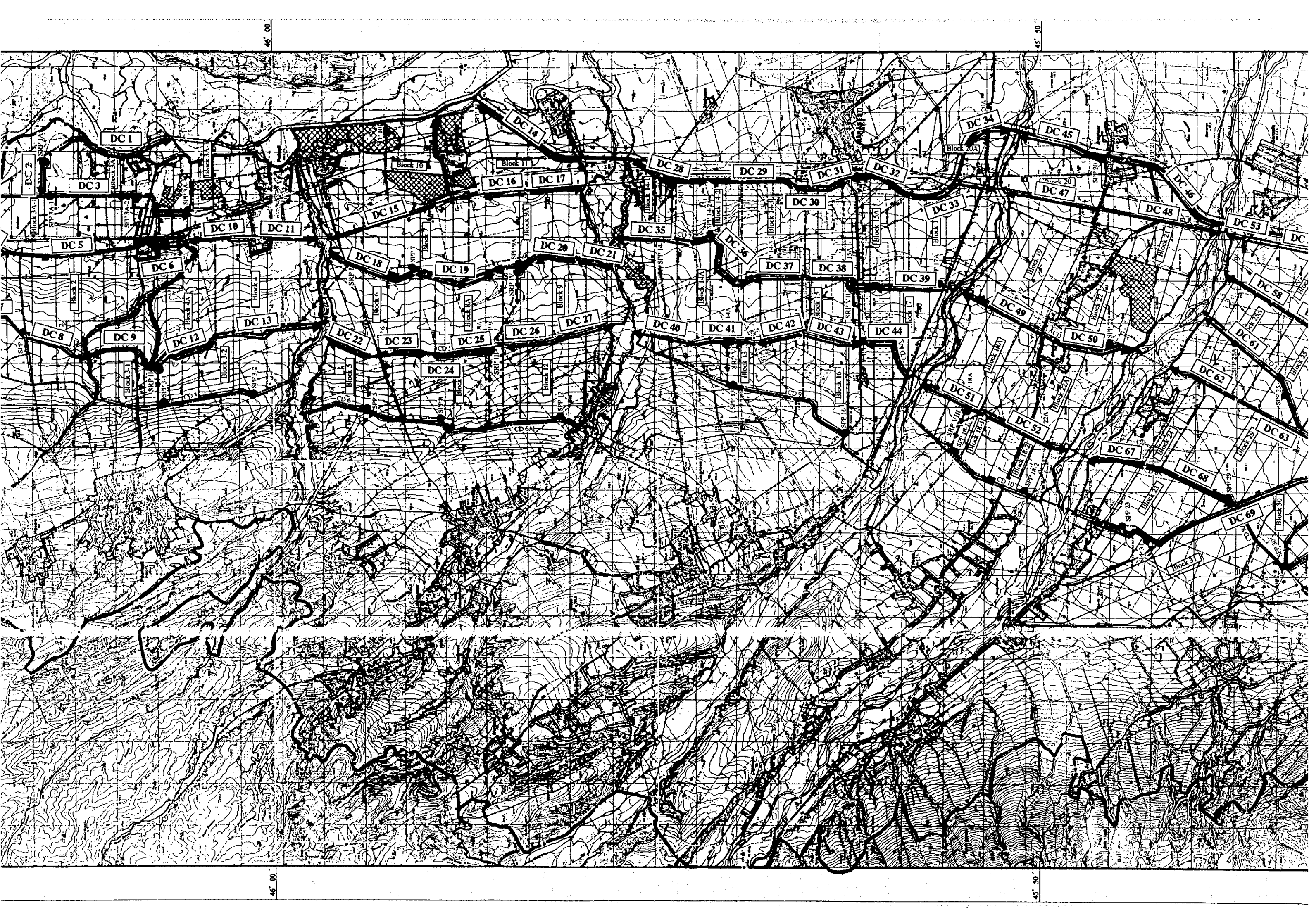


27 00

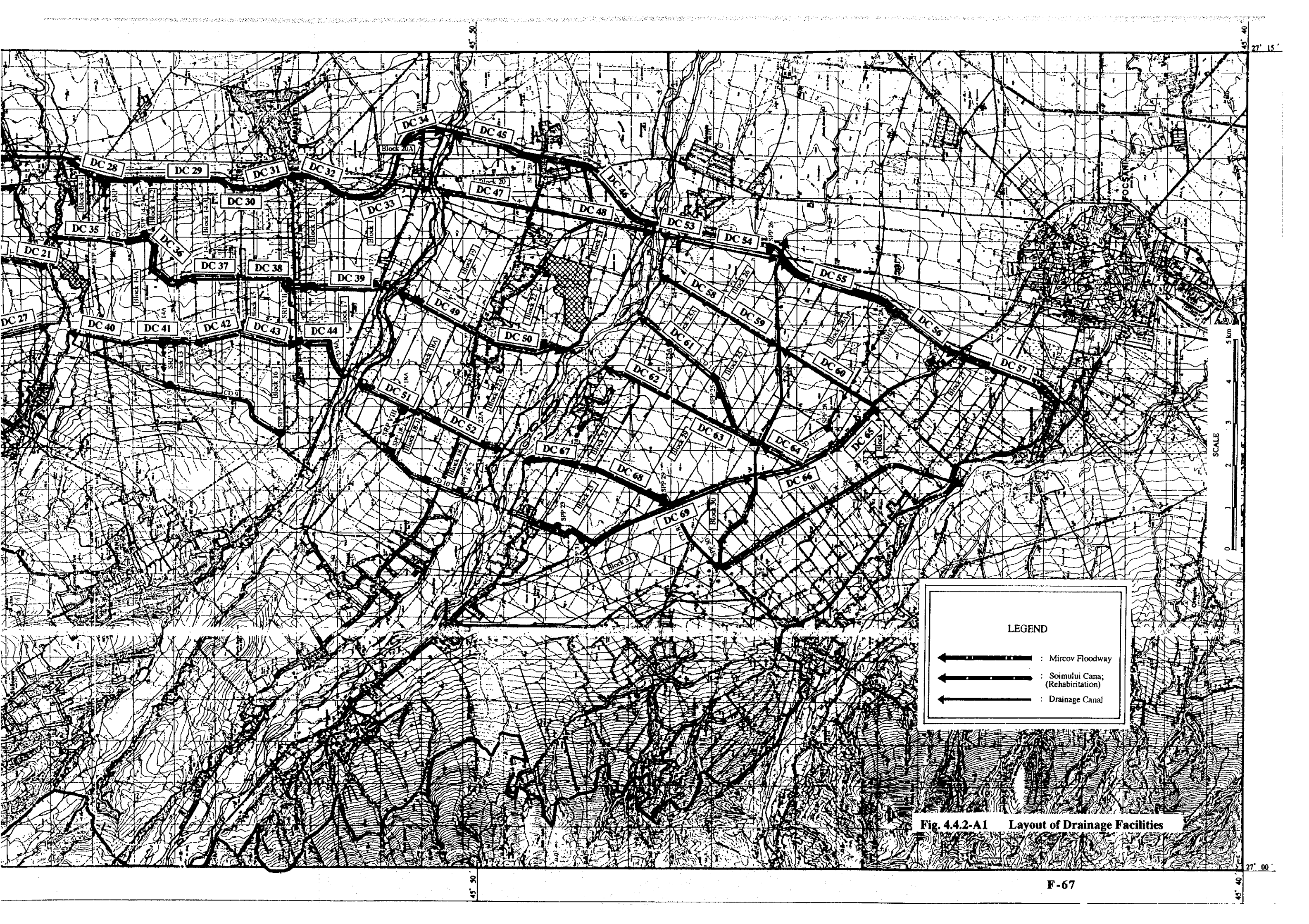
46 10

46 00









**LEGEND**

- — — — — : Mircov Floodway
- — — — — : Soimului Cana; (Rehabilitation)
- — — — — : Drainage Canal

Fig. 4.4.2-A1 Layout of Drainage Facilities







U-GW2

MOV-GW3

MOV-GW1

PAN-GW2

PAN-GW1

PAU-GW1

MOV-GW2

Movilita SCPA

Panciu SCPA

BD1

MOV-BD2

MOV-BD1

Tifesti SCPA

CARECNA River

ZABRAUT River

SUSITA River

TIF-BD1

Block 10

Block 11

Block 20A

Block 14

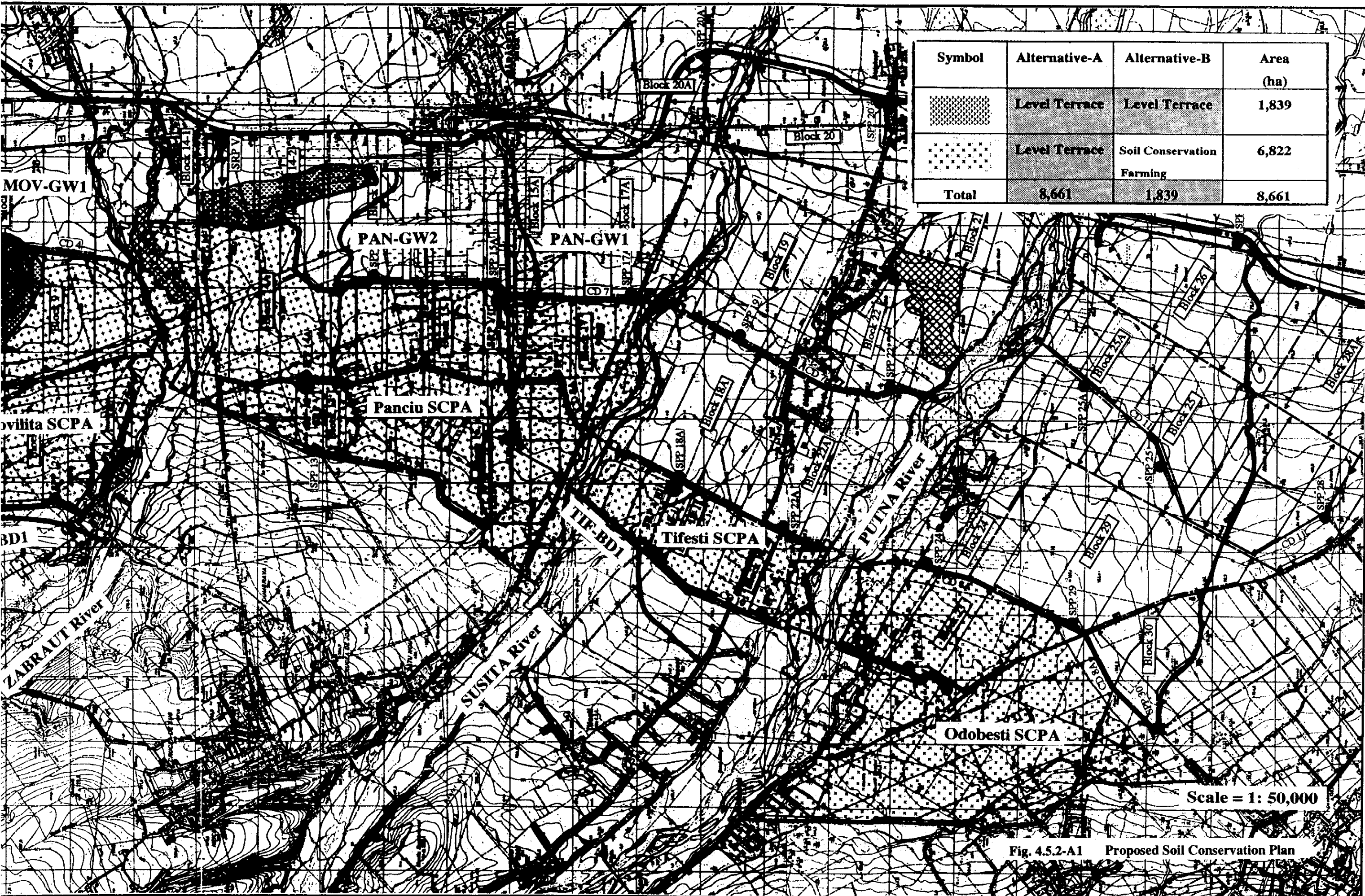
Block 15A

Block 17A

Block 18A

Block 19

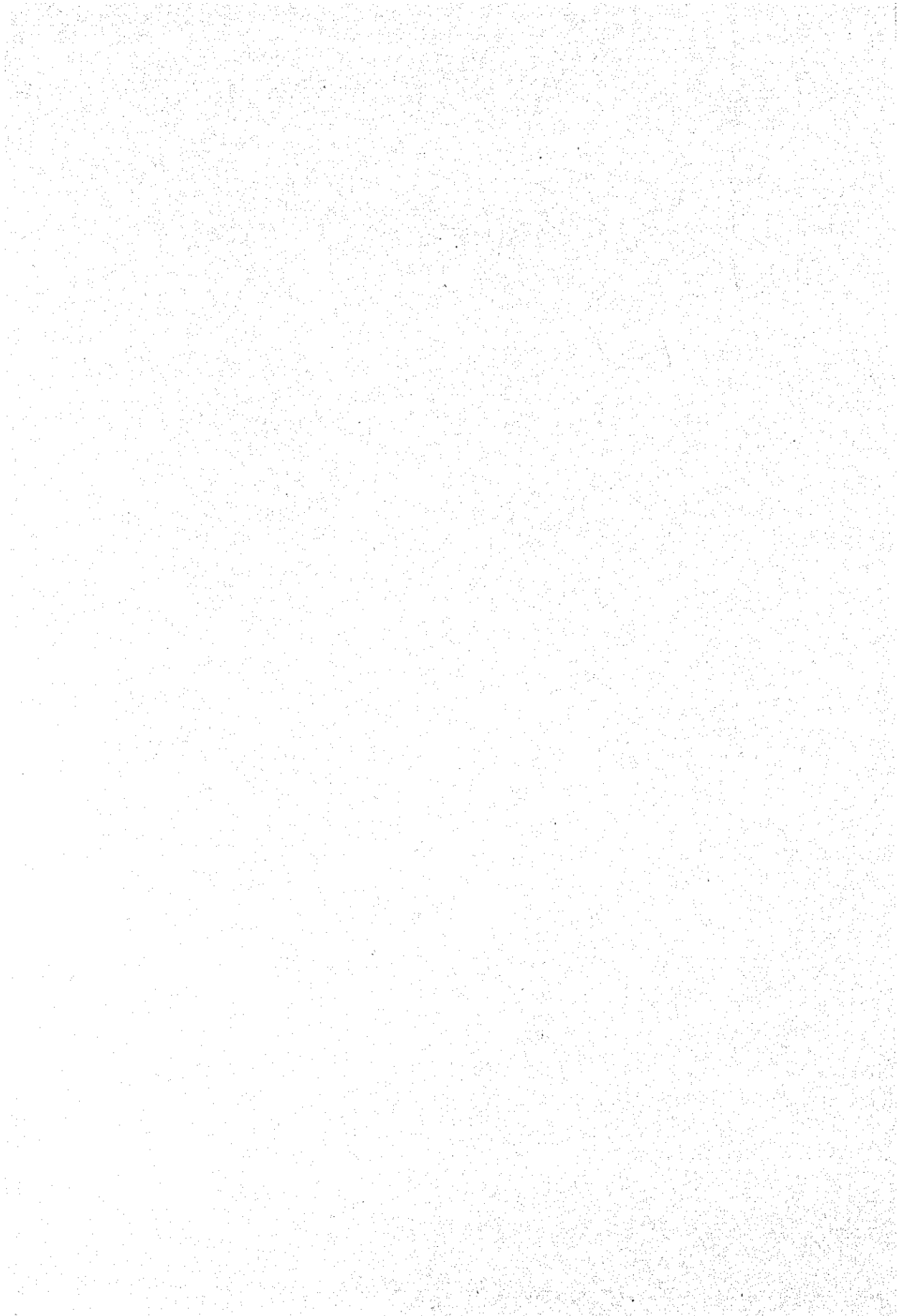
Block 22A

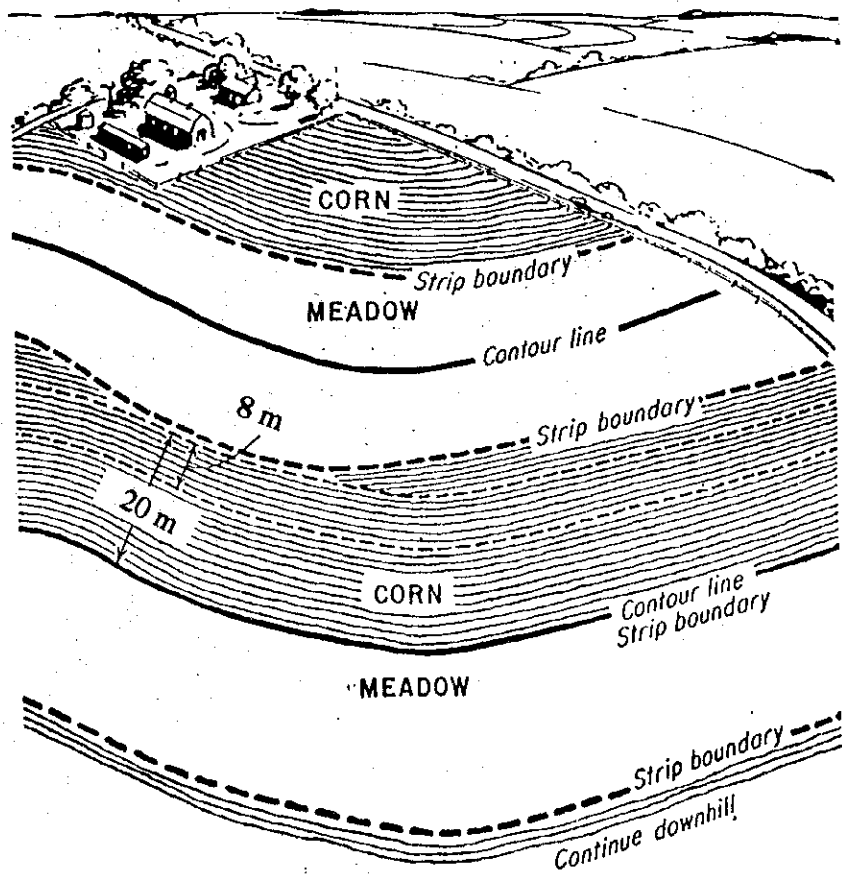


Symbol	Alternative-A	Alternative-B	Area (ha)
	Level Terrace	Level Terrace	1,839
	Level Terrace	Soil Conservation Farming	6,822
<b>Total</b>	<b>8,661</b>	<b>1,839</b>	<b>8,661</b>

Scale = 1: 50,000

Fig. 4.5.2-A1 Proposed Soil Conservation Plan





**Fig. 4.5.3-A1** Illustration of Contour-Strip-Cropping



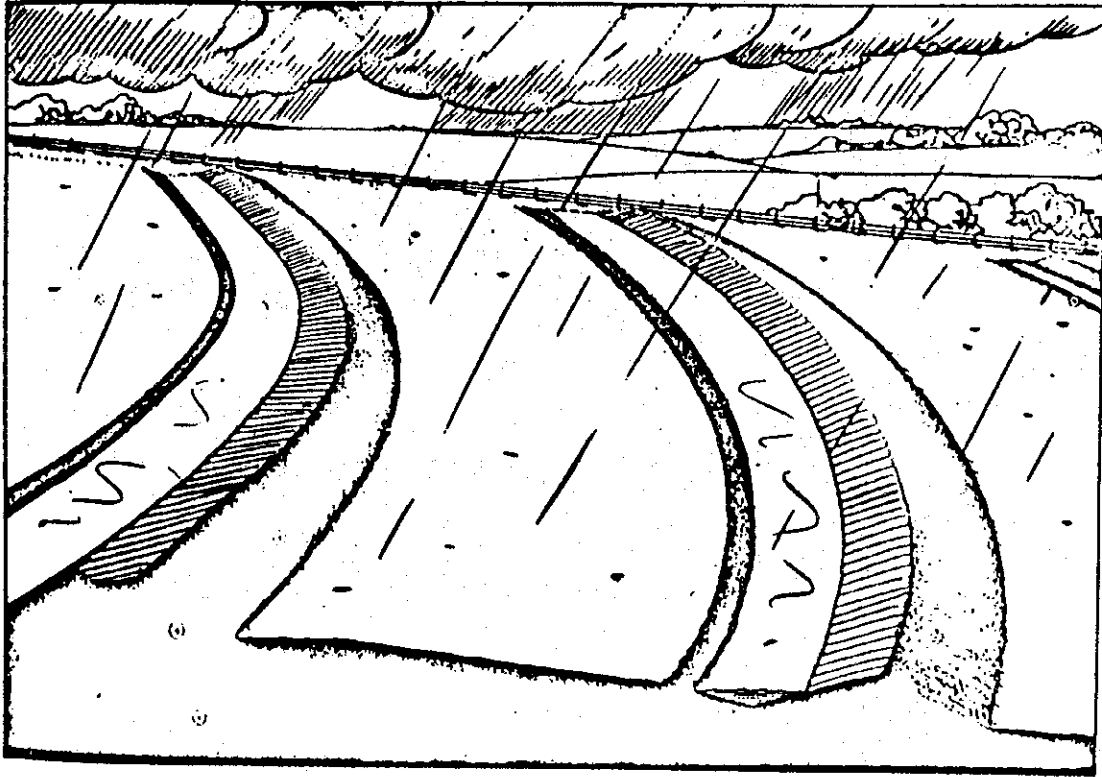


Fig. 4.5.3-A2 Illustration of Level Terrace

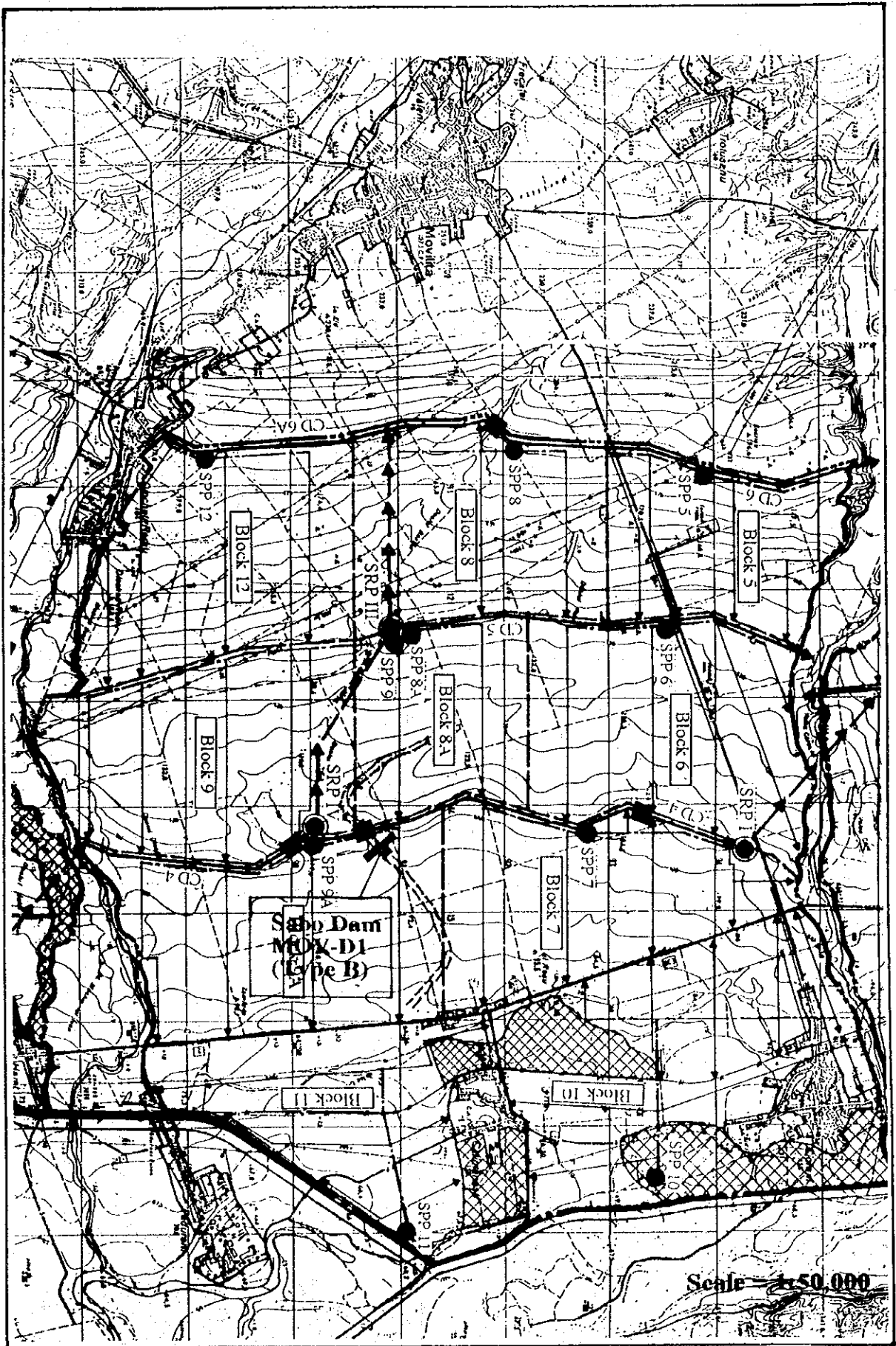


Fig. 4.5.3-A3 Proposed Sabo Dam Site in Movilita SPCA



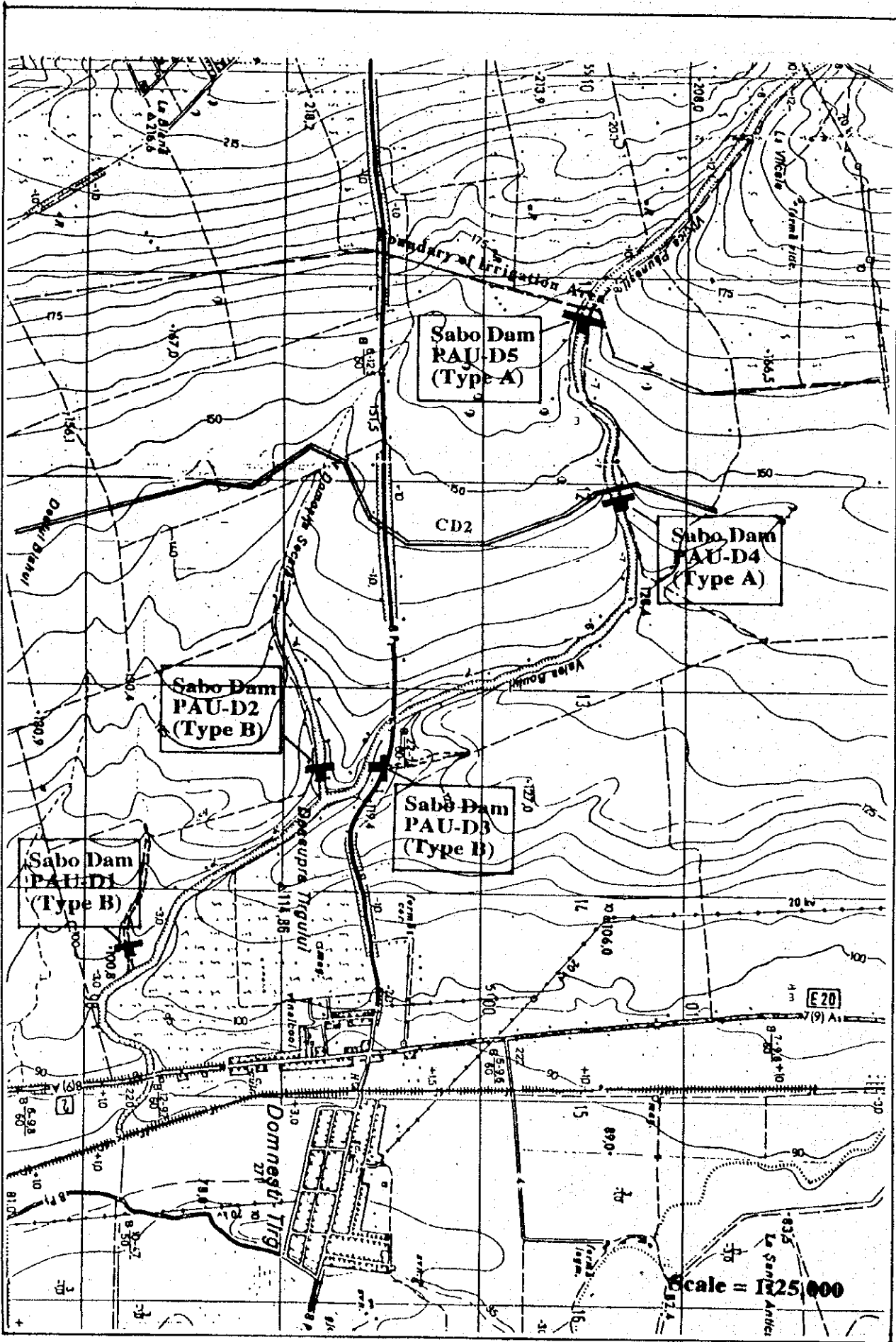
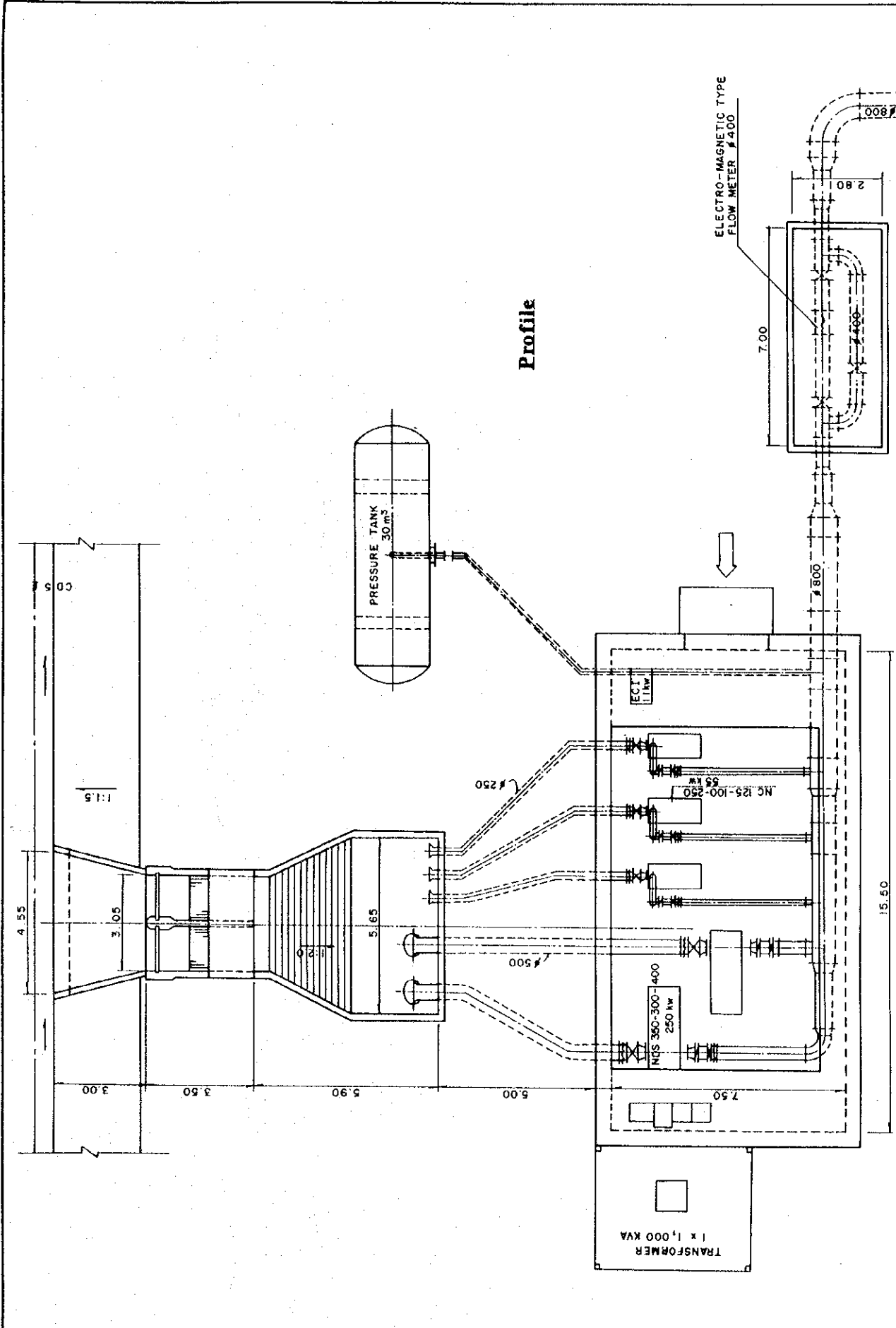


Fig. 4.5.3-A4 Proposed Sabo Dam Sites in Paunesti SCPA



Profile

Fig 4.7.1-A1 Typical Drawing of SRP (1/2)



Cross Section

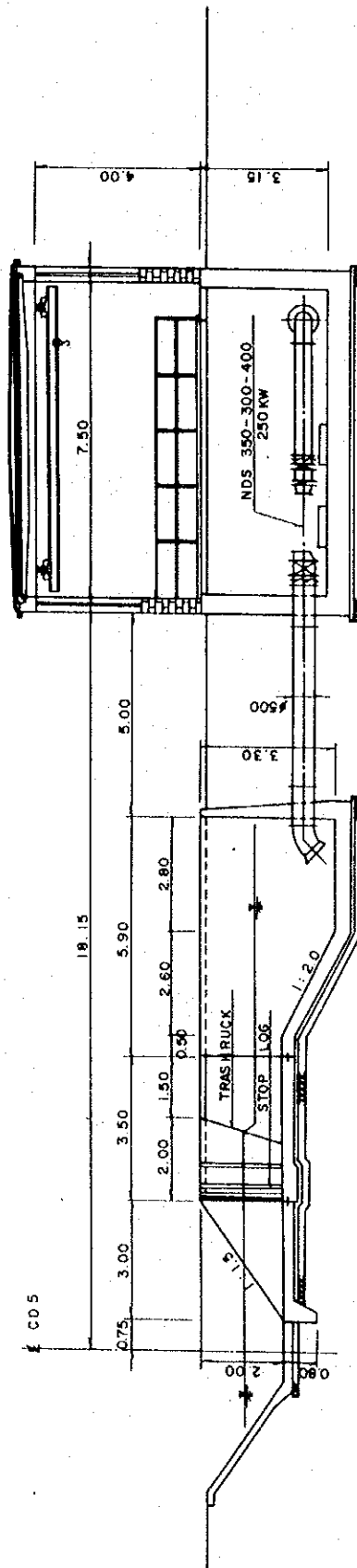


Fig 4.7.1-A2 Typical Drawing of SRP (2/2)

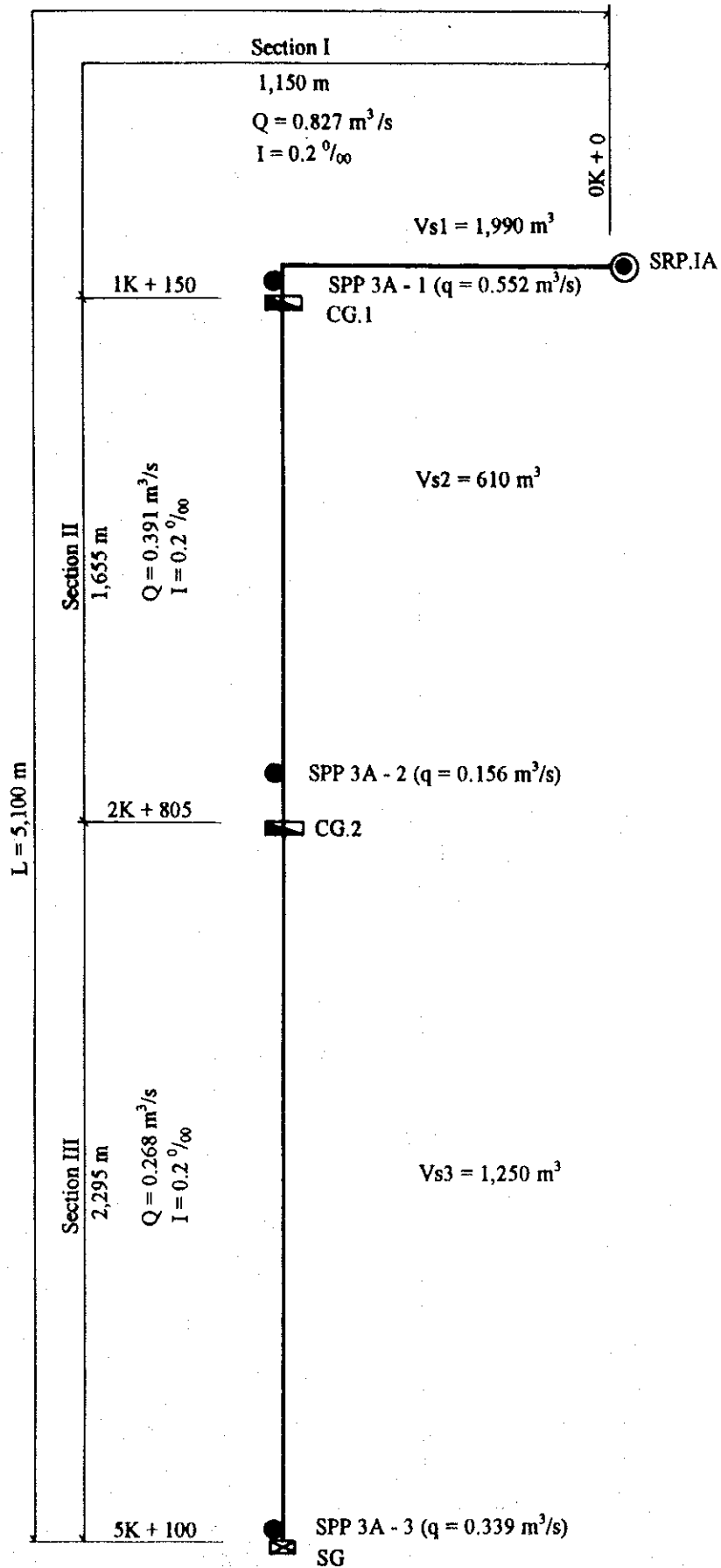


Fig 4.7.1-A3 Schematic Drawing of Distribution Canal (CD-1)



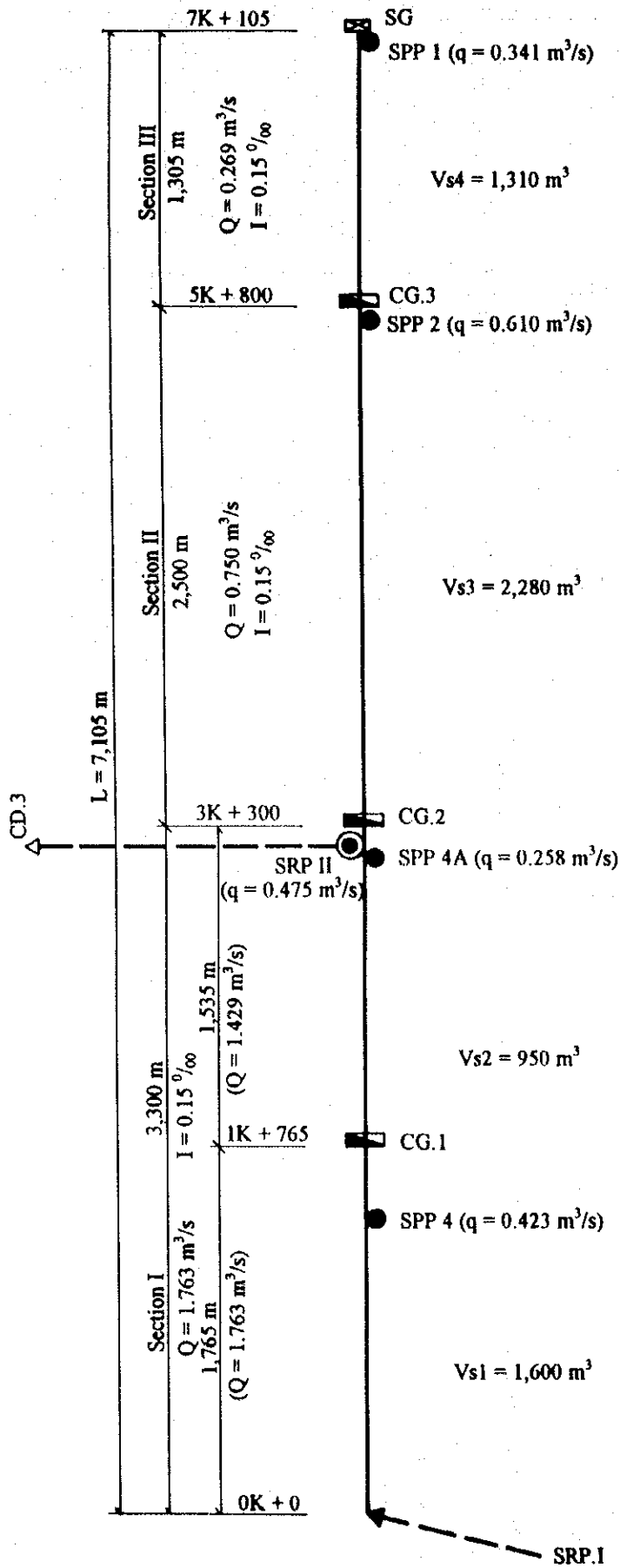
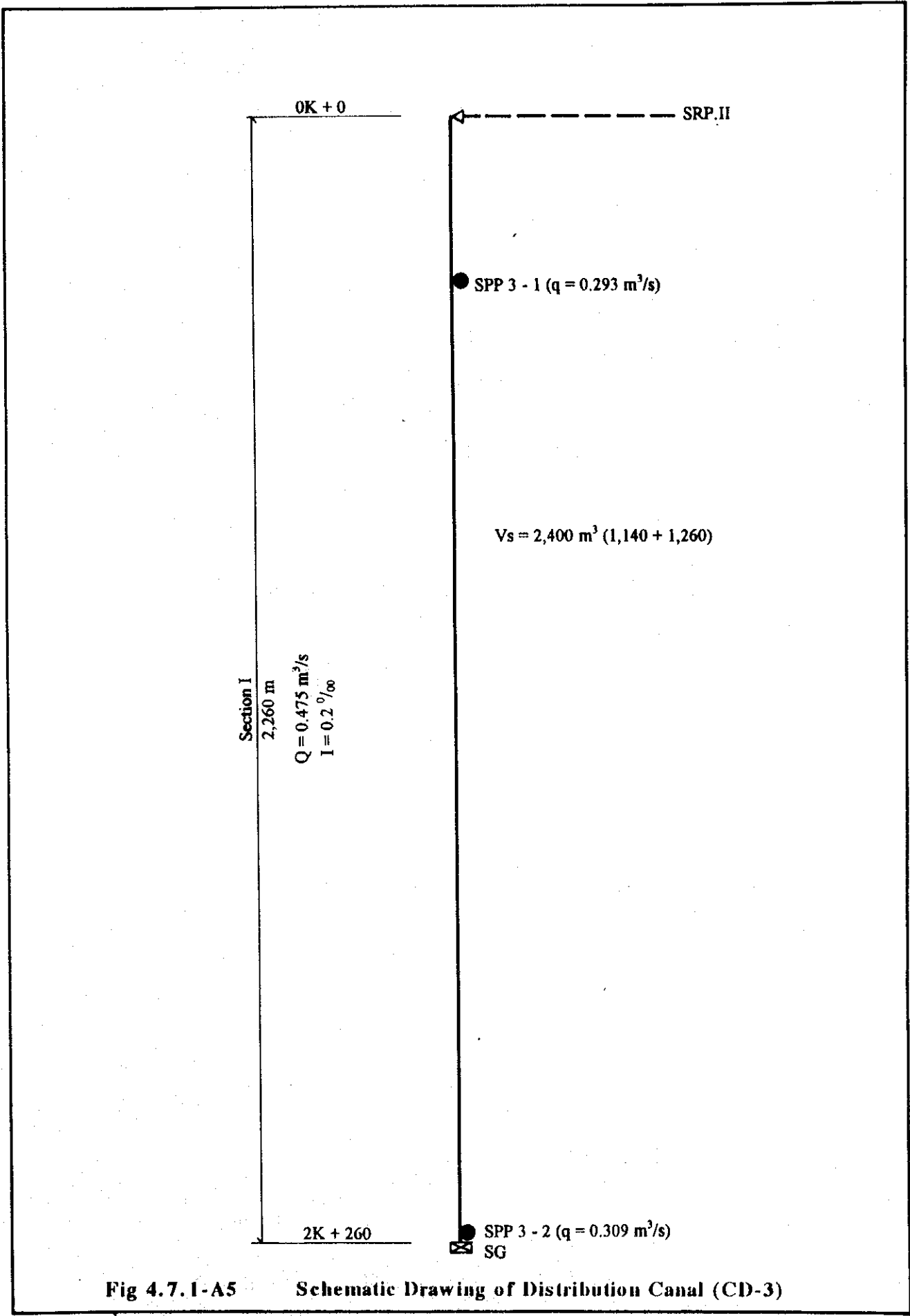


Fig 4.7.1-A4 Schematic Drawing of Distribution Canal (CD-2)



**Fig 4.7.1-A5 Schematic Drawing of Distribution Canal (CD-3)**



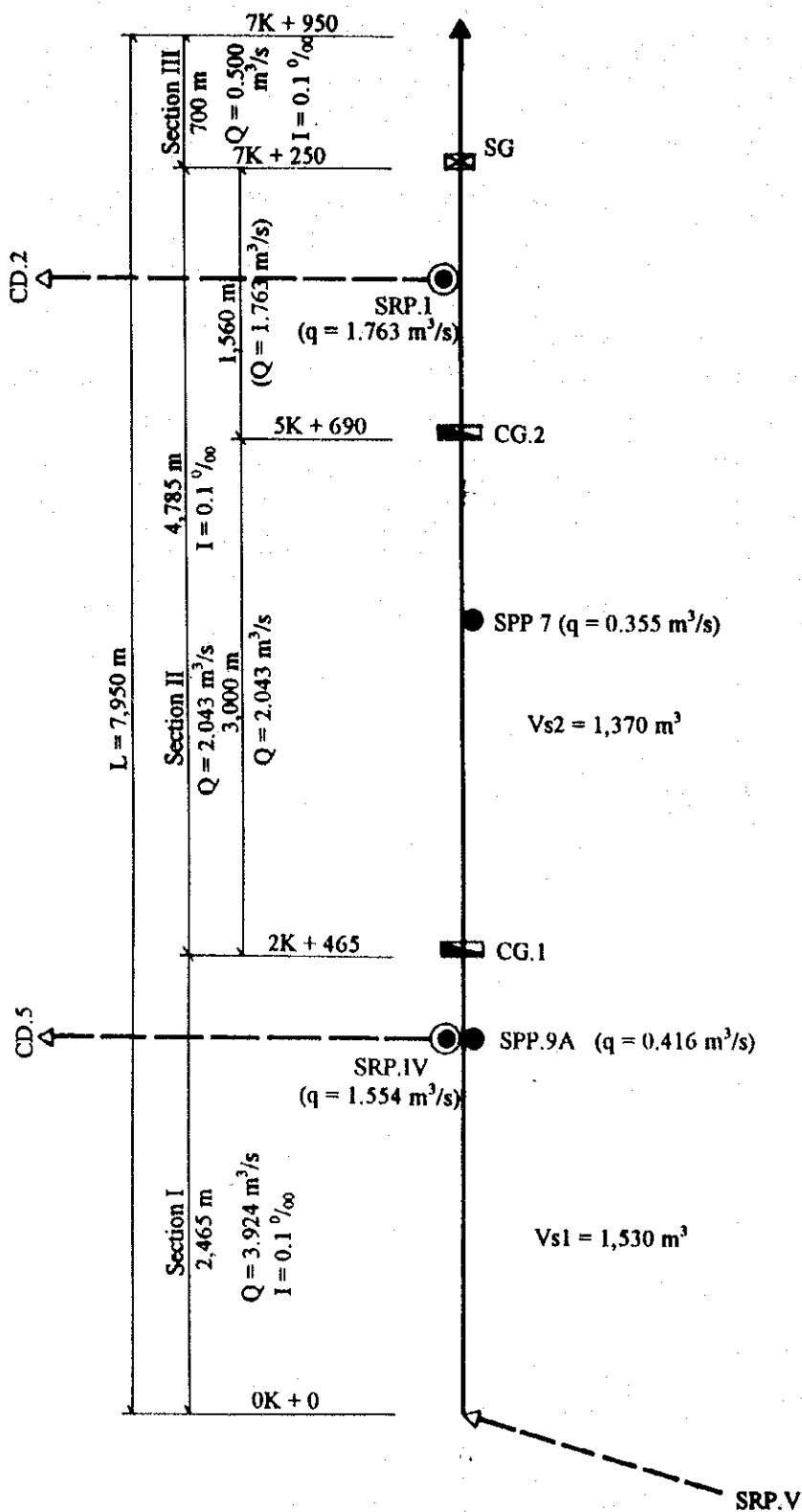


Fig 4.7.1-A6

Schematic Drawing of Distribution Canal (CD-4)

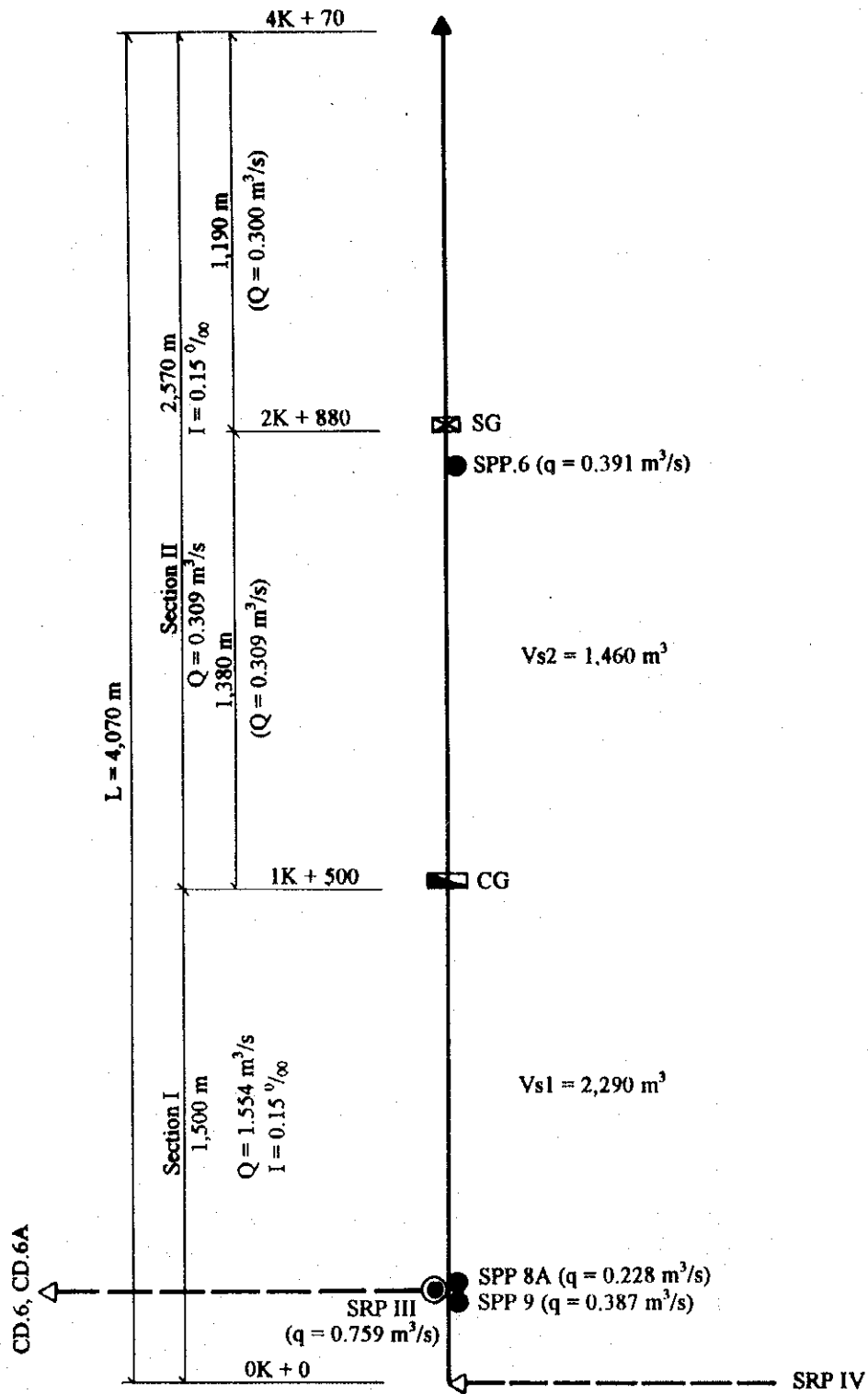


Fig 4.7.1-A7 Schematic Drawing of Distribution Canal (CD-5)

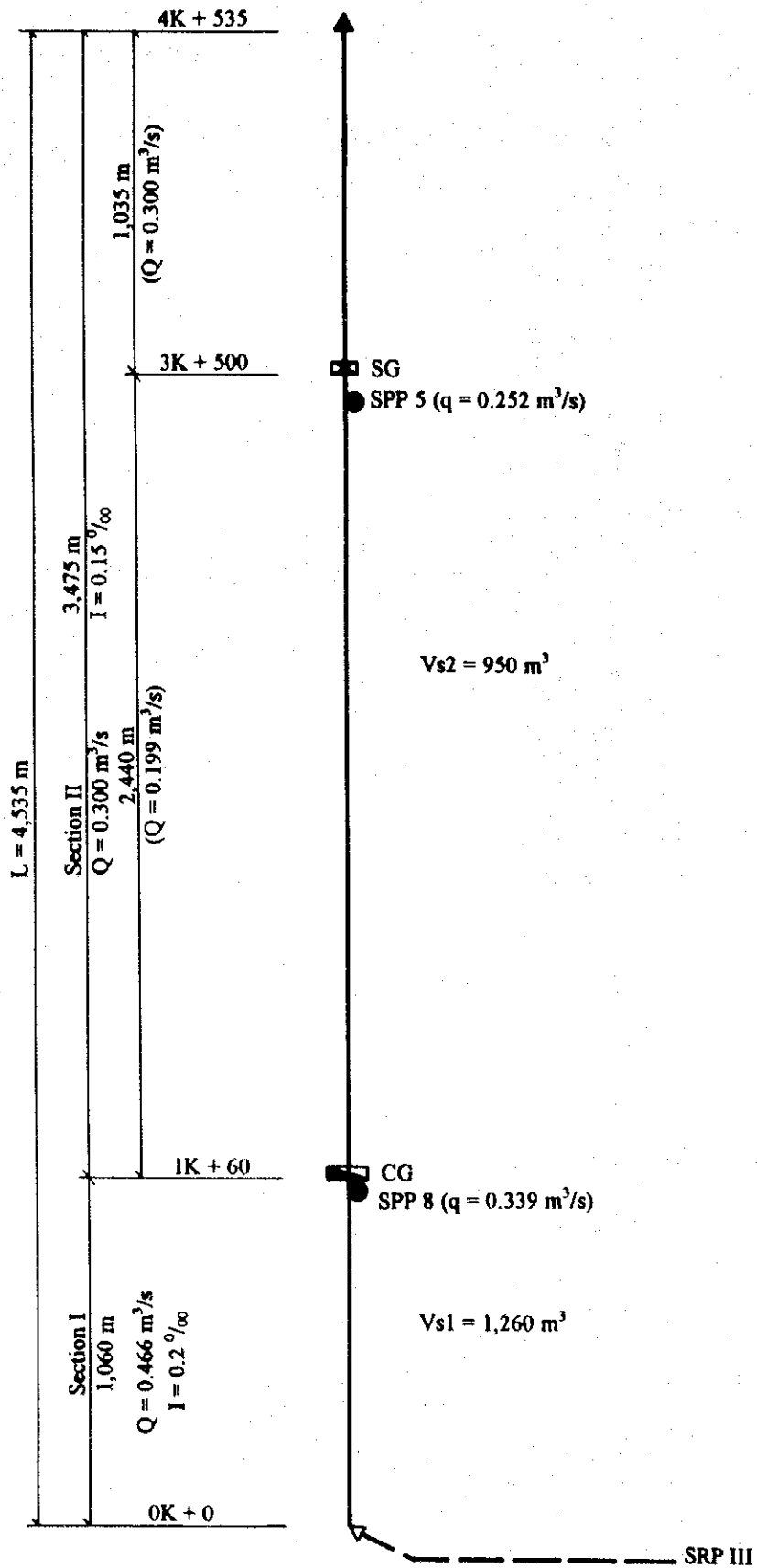
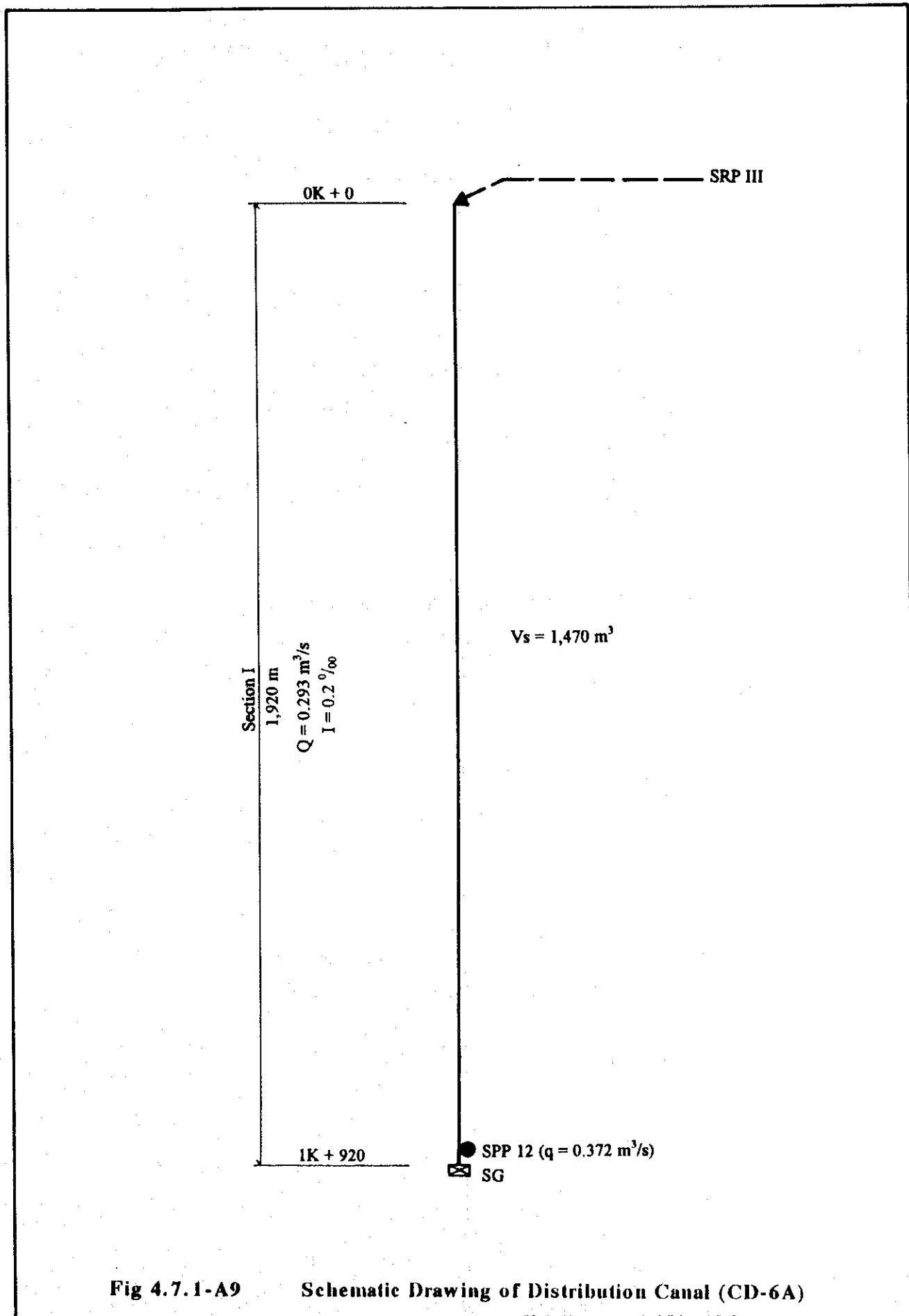


Fig 4.7.1-A8 Schematic Drawing of Distribution Canal (CD-6)



**Fig 4.7.1-A9 Schematic Drawing of Distribution Canal (CD-6A)**



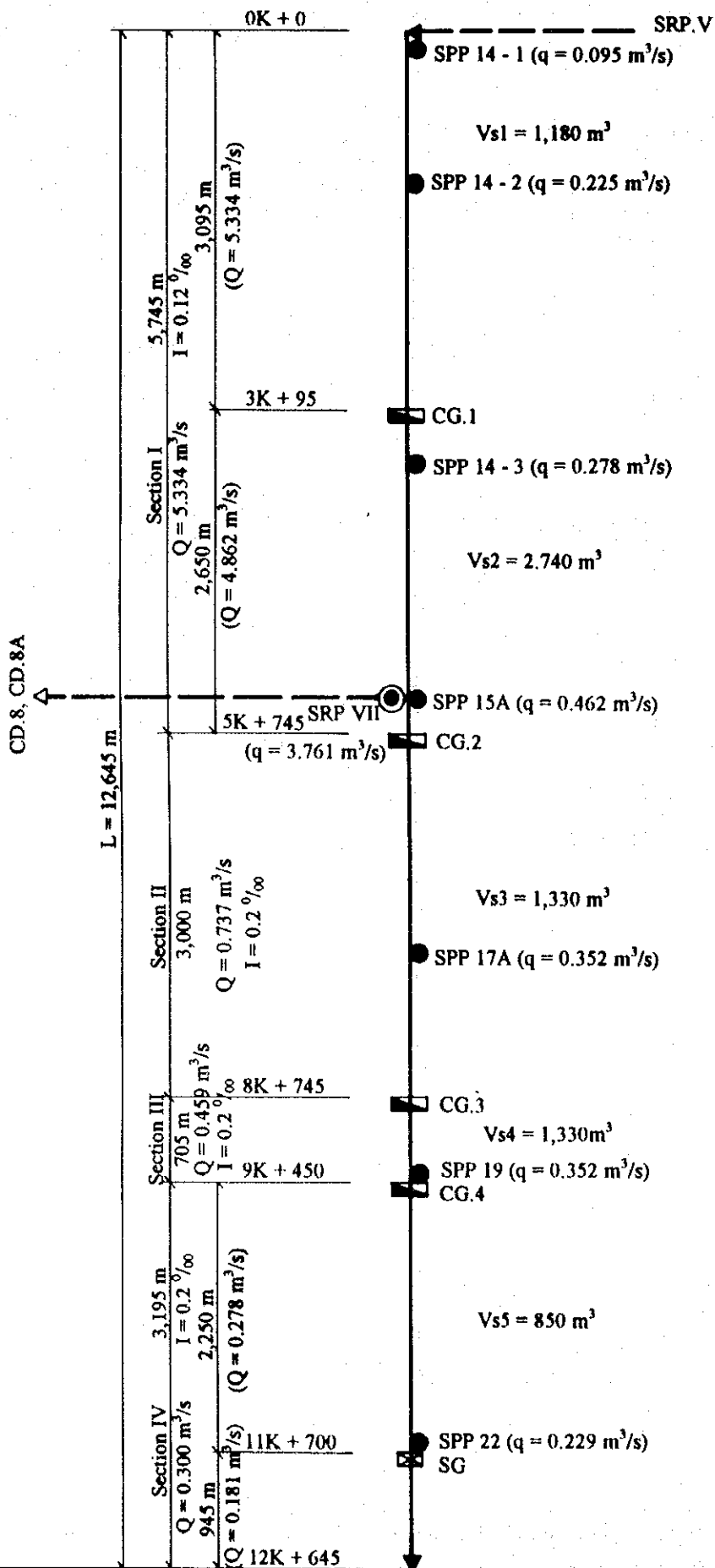


Fig 4.7.1-A10 Schematic Drawing of Distribution Canal (CD-7)

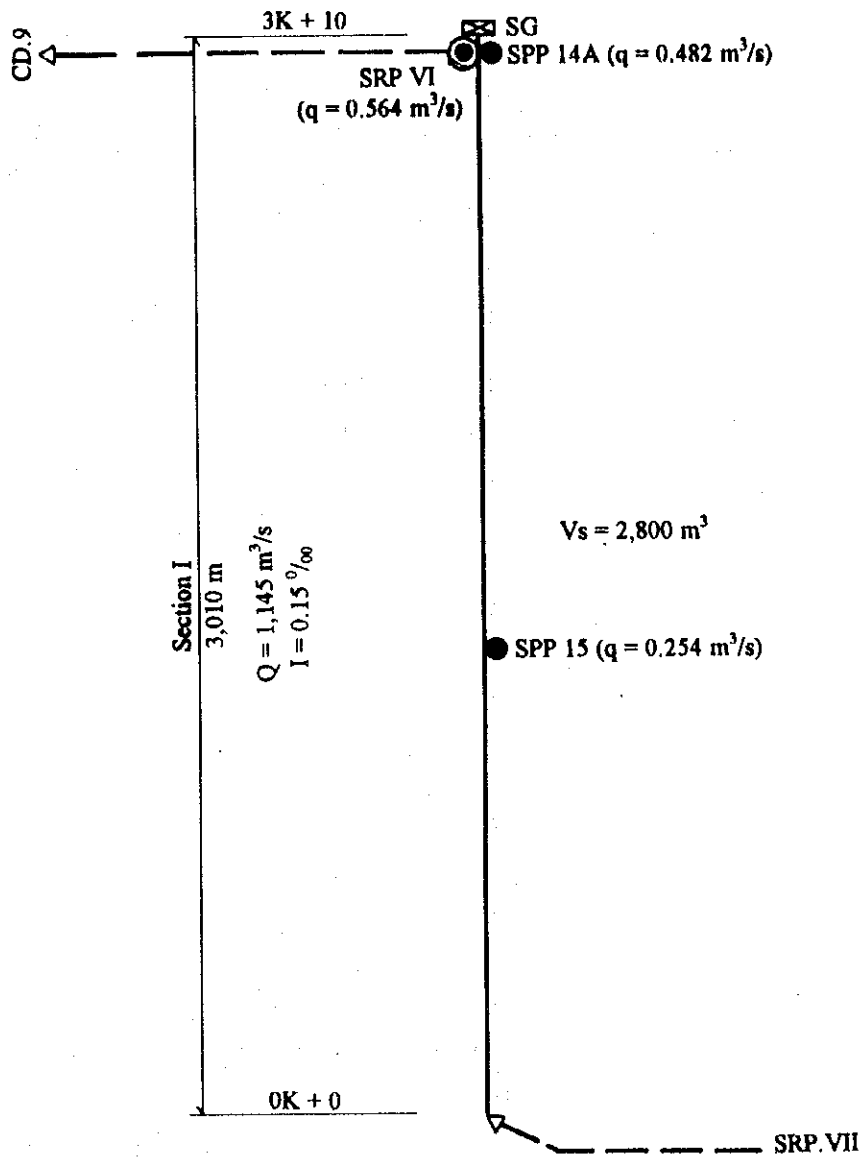


Fig 4.7.1-A11 Schematic Drawing of Distribution Canal (CD-8)

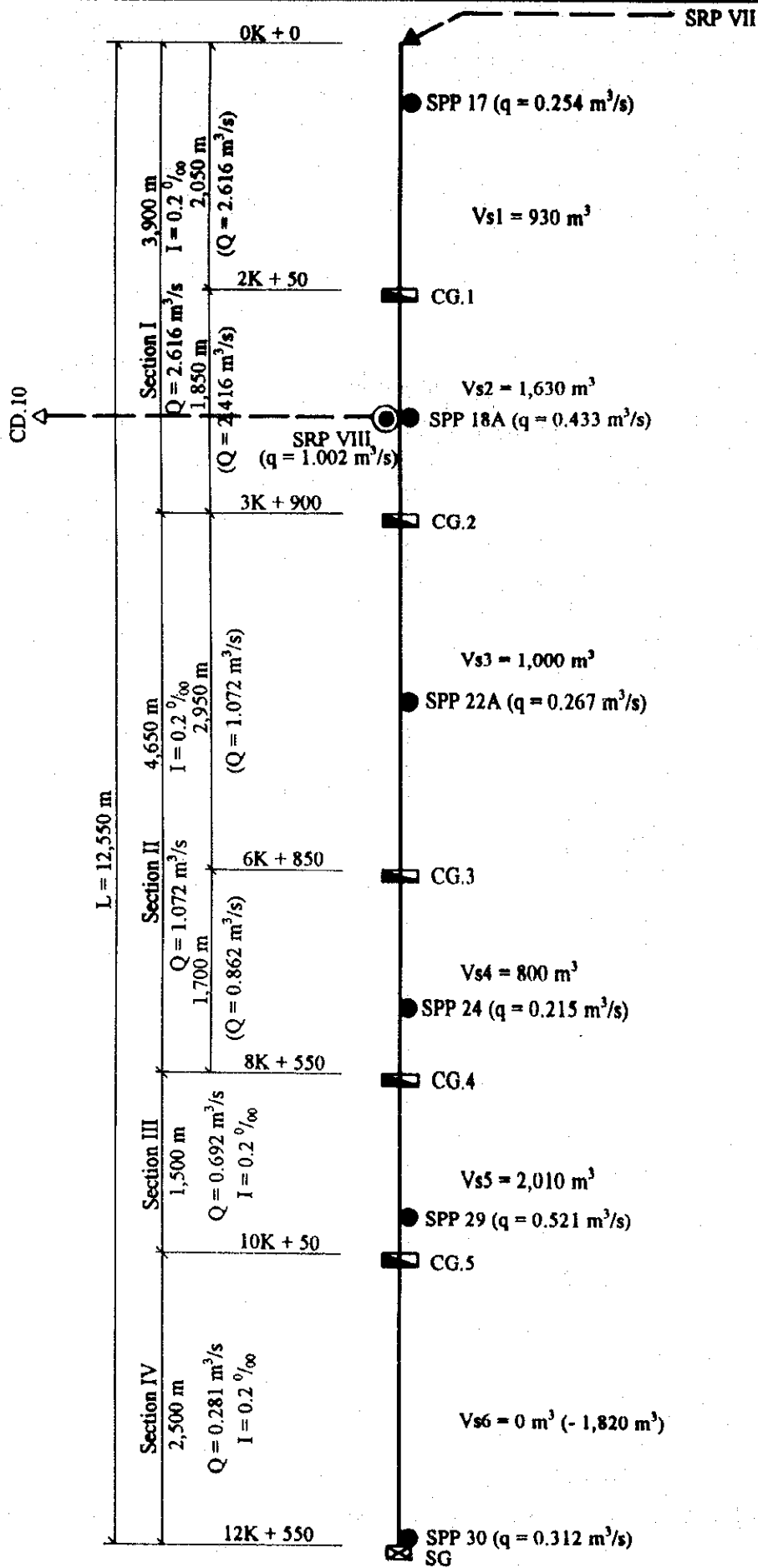
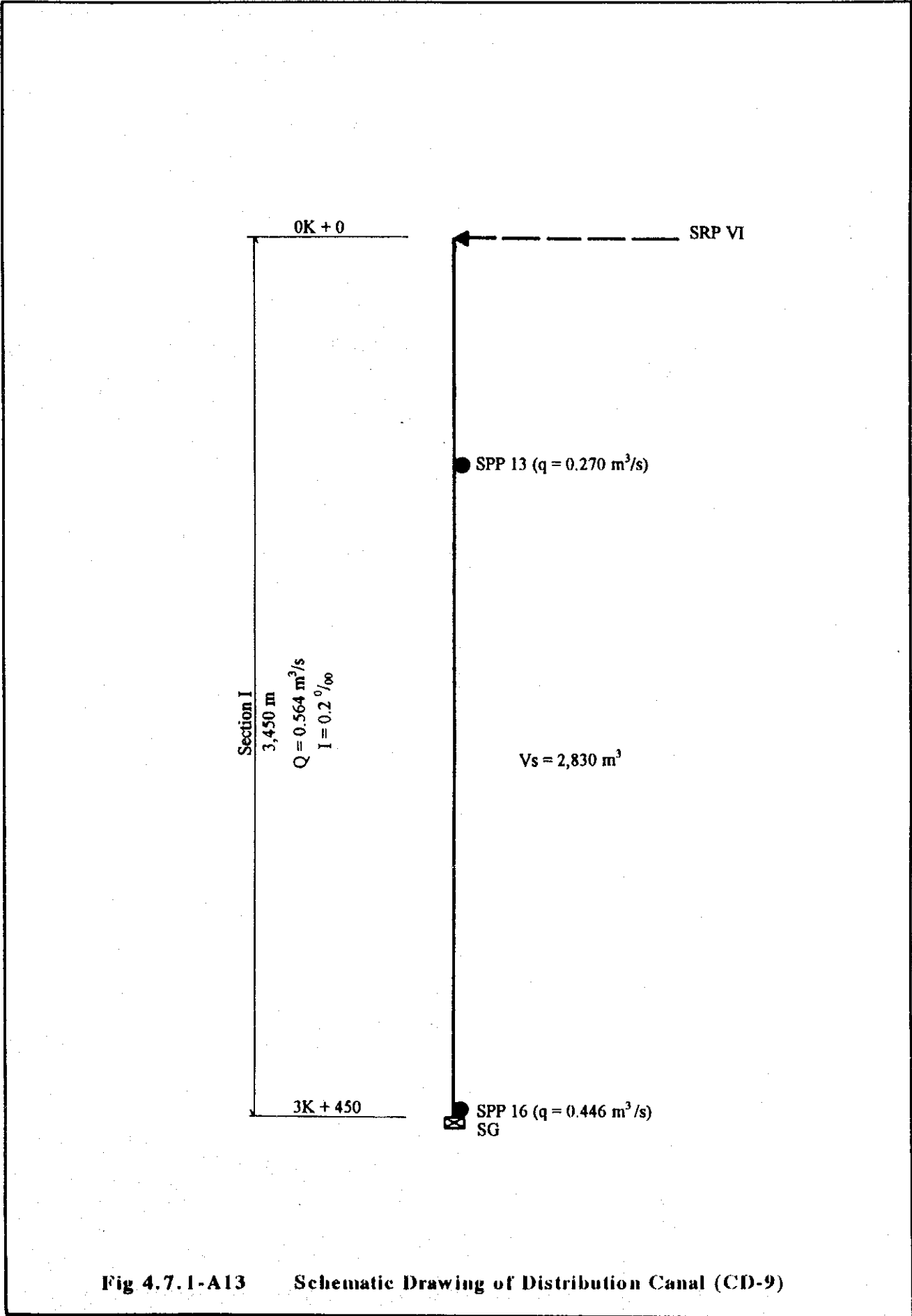


Fig 4.7.1-A12 Schematic Drawing of Distribution Canal (CD-8A)



**Fig 4.7.1-A13 Schematic Drawing of Distribution Canal (CD-9)**



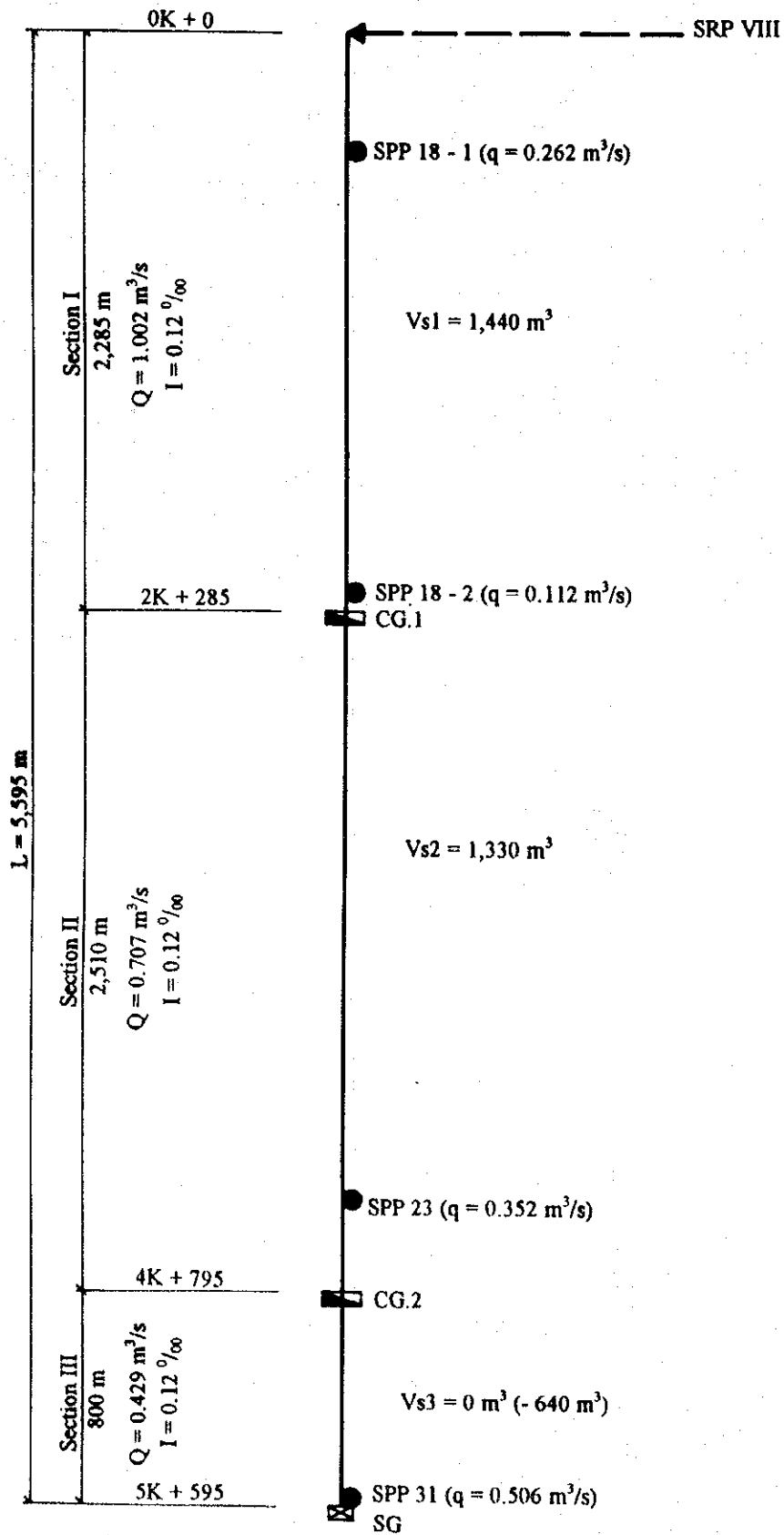


Fig 4.7.1-A14 Schematic Drawing of Distribution Canal (CD-10)

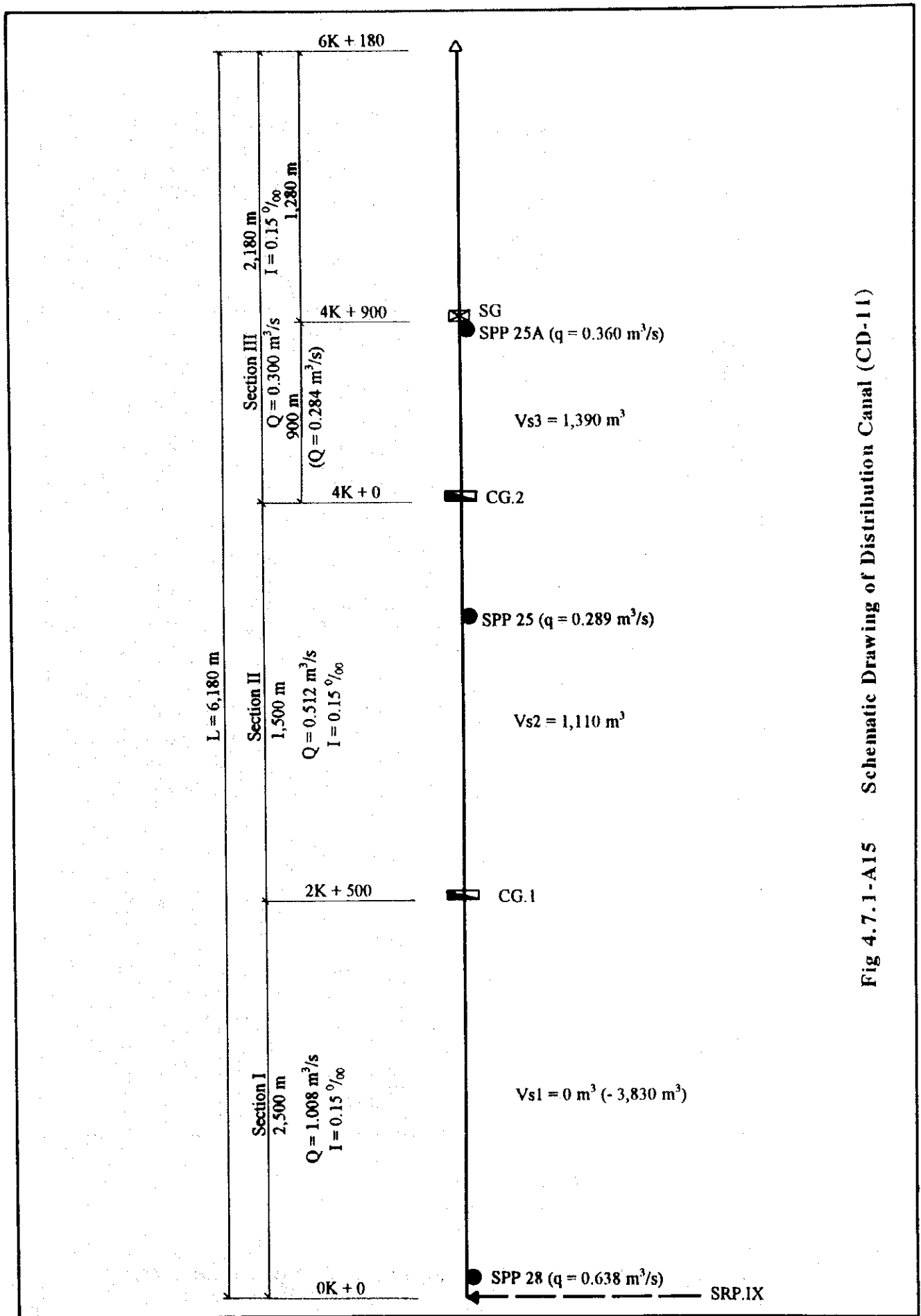
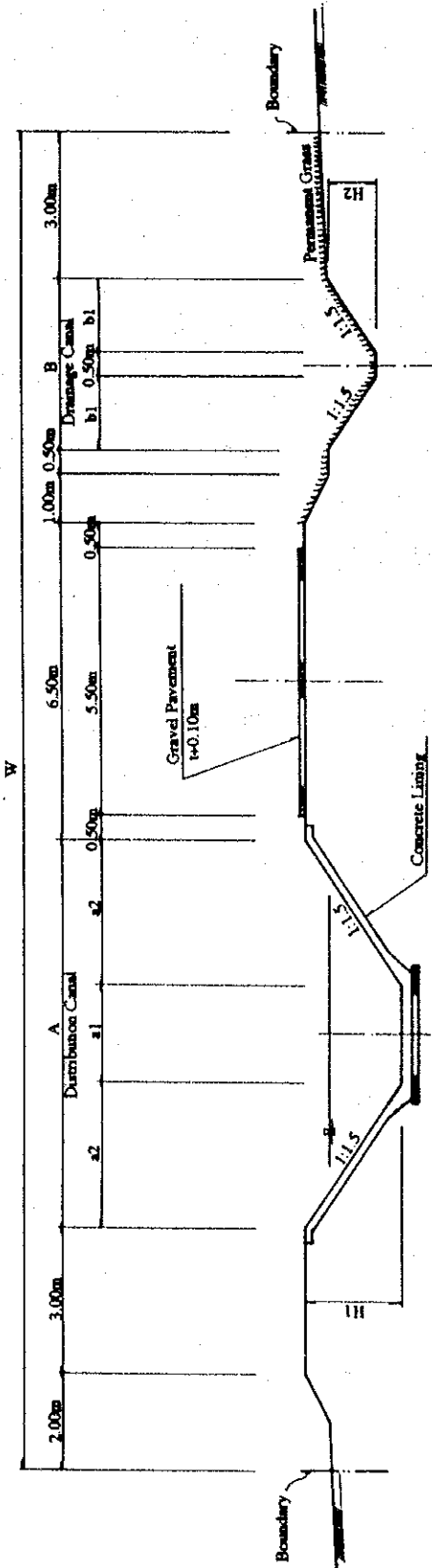


Fig 4.7.1-A15 Schematic Drawing of Distribution Canal (CD-11)

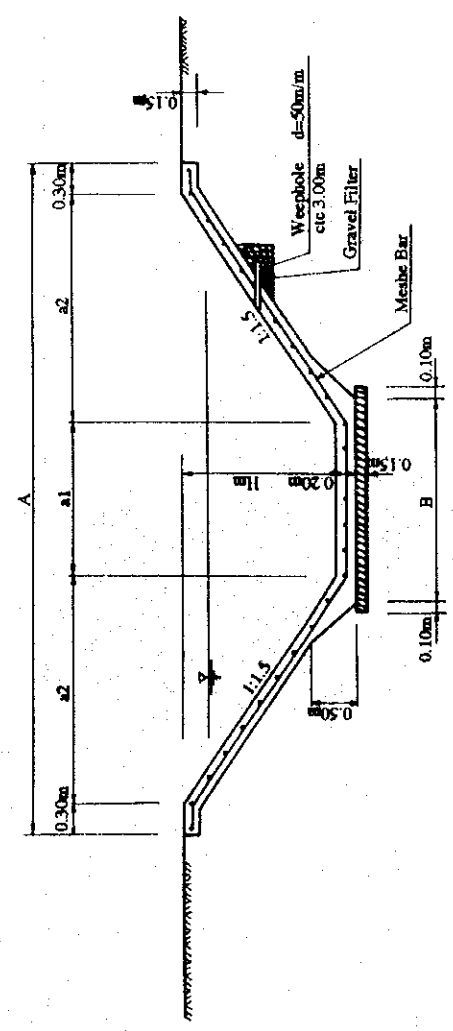


Dimension of Distribution Canal

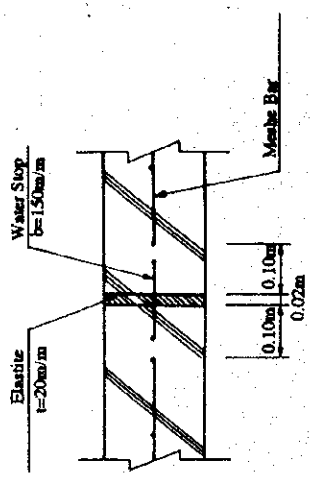
Name of Canal Canal No.	Race No.	Canal Length			Canal Dimension			Bottom Slope (%)	Race No.	Name of Canal	Canal Length			Canal Dimension				
		Race (m)	Total (m)		Hm (m)	A (m)	a1 (m)				a2 (m)	Race (m)	Total (m)		Hm (m)	A (m)	a1 (m)	a2 (m)
CD 1	I	1,150			1,685	6,055	1,000	2,528	I	CD 7	I	5,745			2,675	10,025	2,000	4,013
	II	1,655	5,100		1,620	5,860	1,000	2,430	II		II	3,000	12,645	2,330	7,990	1,000	3,495	
	III	2,295			1,330	4,990	1,000	1,995	III		III	705		2,305	7,915	1,000	3,458	
CD 2	I	3,300			1,730	6,690	1,500	2,595	IV		IV	3,195		1,620	5,860	1,000	2,430	
	II	2,500	7,105		1,720	6,660	1,500	2,580	I	CD 8	I	3,010	3,010	2,295	8,385	1,500	3,443	
	III	1,305			1,910	6,730	1,000	2,865	I		I	3,900		2,295	8,385	1,500	3,443	
CD 3	I	2,260	2,260		1,430	5,290	1,000	2,145	II	CD 8A	II	4,650	12,550	2,580	9,240	1,500	3,870	
	II	2,465			2,290	8,370	1,500	3,435	III		III	1,500		1,550	6,150	1,500	2,325	
	III	4,785	7,950		2,300	8,400	1,500	3,450	IV		IV	2,500		1,850	7,050	1,500	2,775	
CD 4	I	700			1,860	6,580	1,000	2,790	I	CD 9	I	3,450	3,450	2,090	7,270	1,000	3,135	
	II	1,500	4,070		1,905	7,215	1,500	2,858	I		I	2,285		2,160	7,480	1,000	3,240	
	III	2,570			1,645	5,935	1,000	2,468	II		II	2,510	5,595	1,485	5,455	1,000	2,228	
CD 5	I	1,060	4,535		1,975	7,425	1,500	2,963	III		III	800		1,880	6,640	1,000	2,820	
	II	3,475			2,150	7,450	1,000	3,225	I		I	2,500		1,635	5,905	1,000	2,453	
	III	1,920	1,920		1,690	6,070	1,000	2,535	II	CD 11	II	1,500	6,180	1,935	6,805	1,000	2,903	
CD 6A	I								III		III	2,180		1,655	5,965	1,000	2,483	

Fig 4.7.1-A16

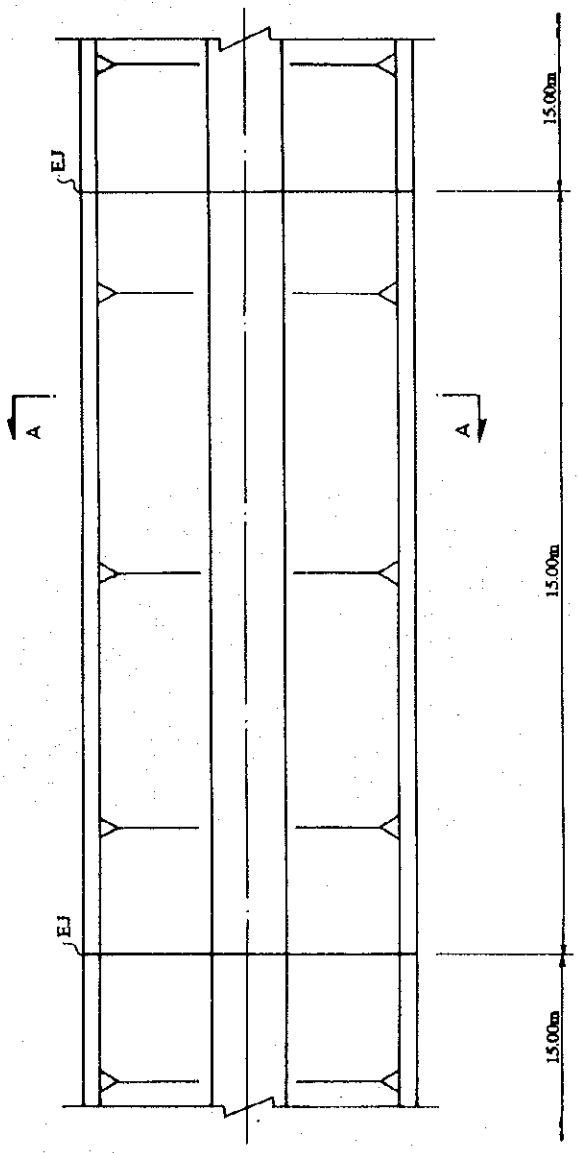
Standard Cross Section of Distribution Canal



SECTION A-A



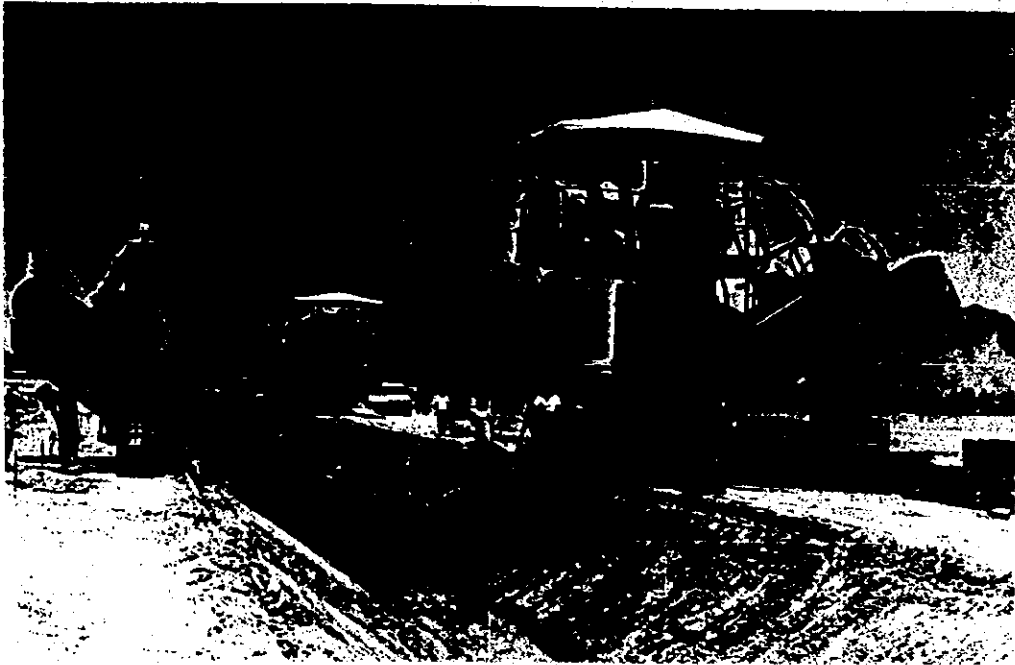
DETAIL OF EXPANSION JOINT



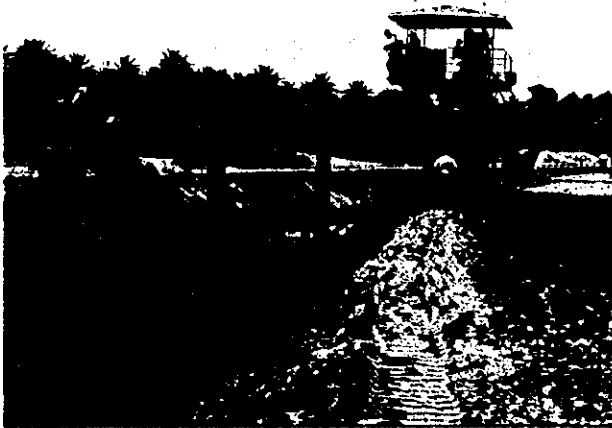
PLAN

Fig 4.7.1-A17 Dimension of Distribution Canal

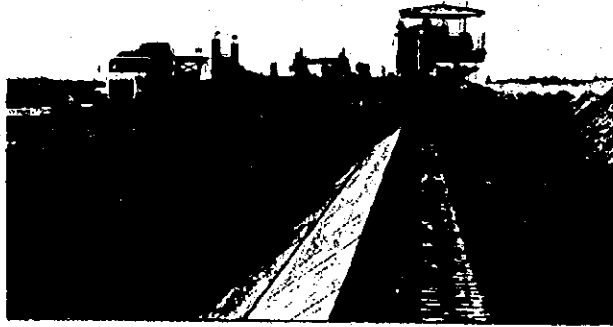




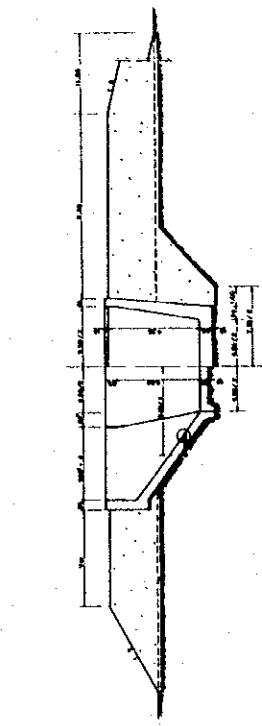
(Trimming)



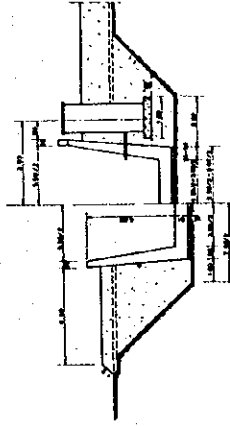
(Lining)



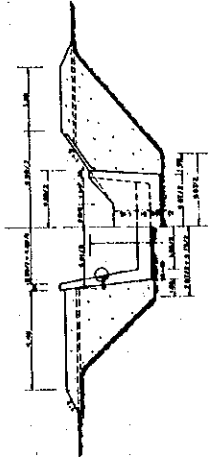
**Fig 4.7.1-A18      Concrete Lining Machine**



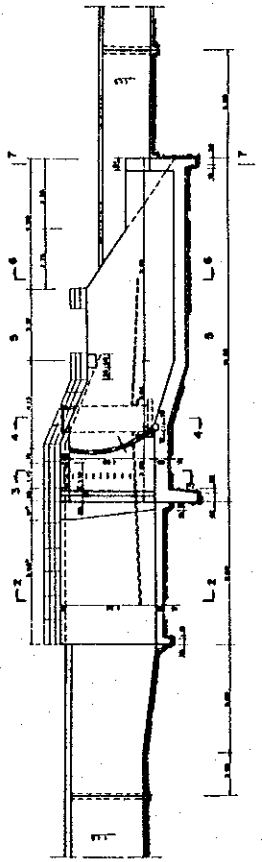
SECTION 2-2



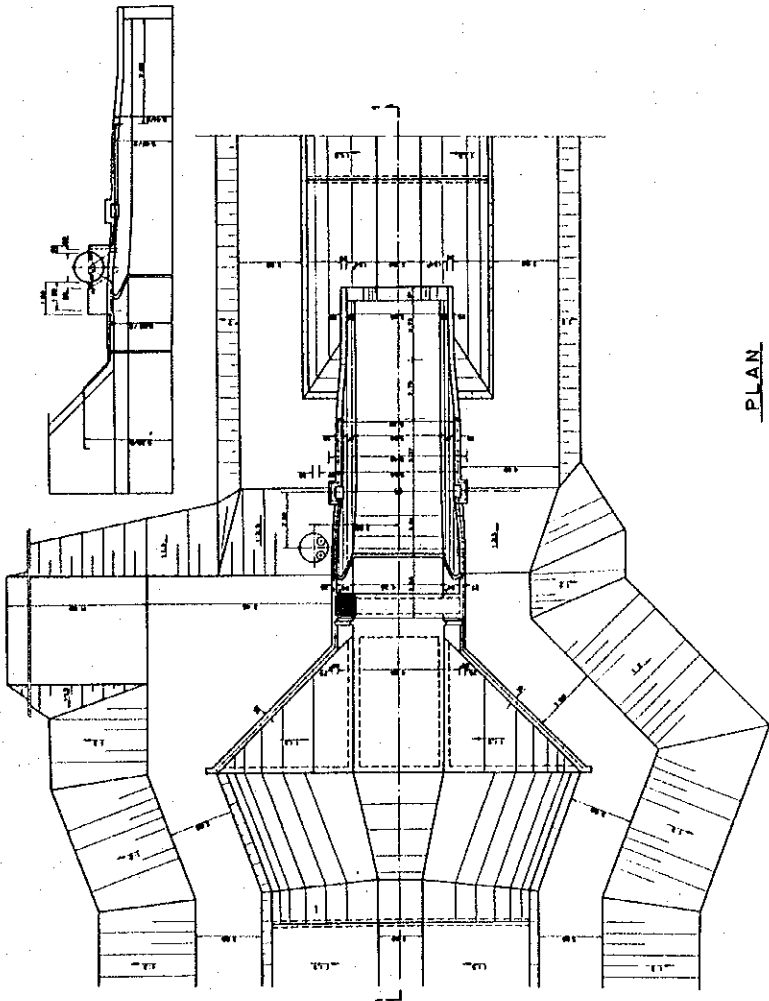
SECTION 3-3



SECTION 4-4



SECTION 1-1



PLAN

Fig 4.7.1-A19 Typical Water Level Regulating Structures

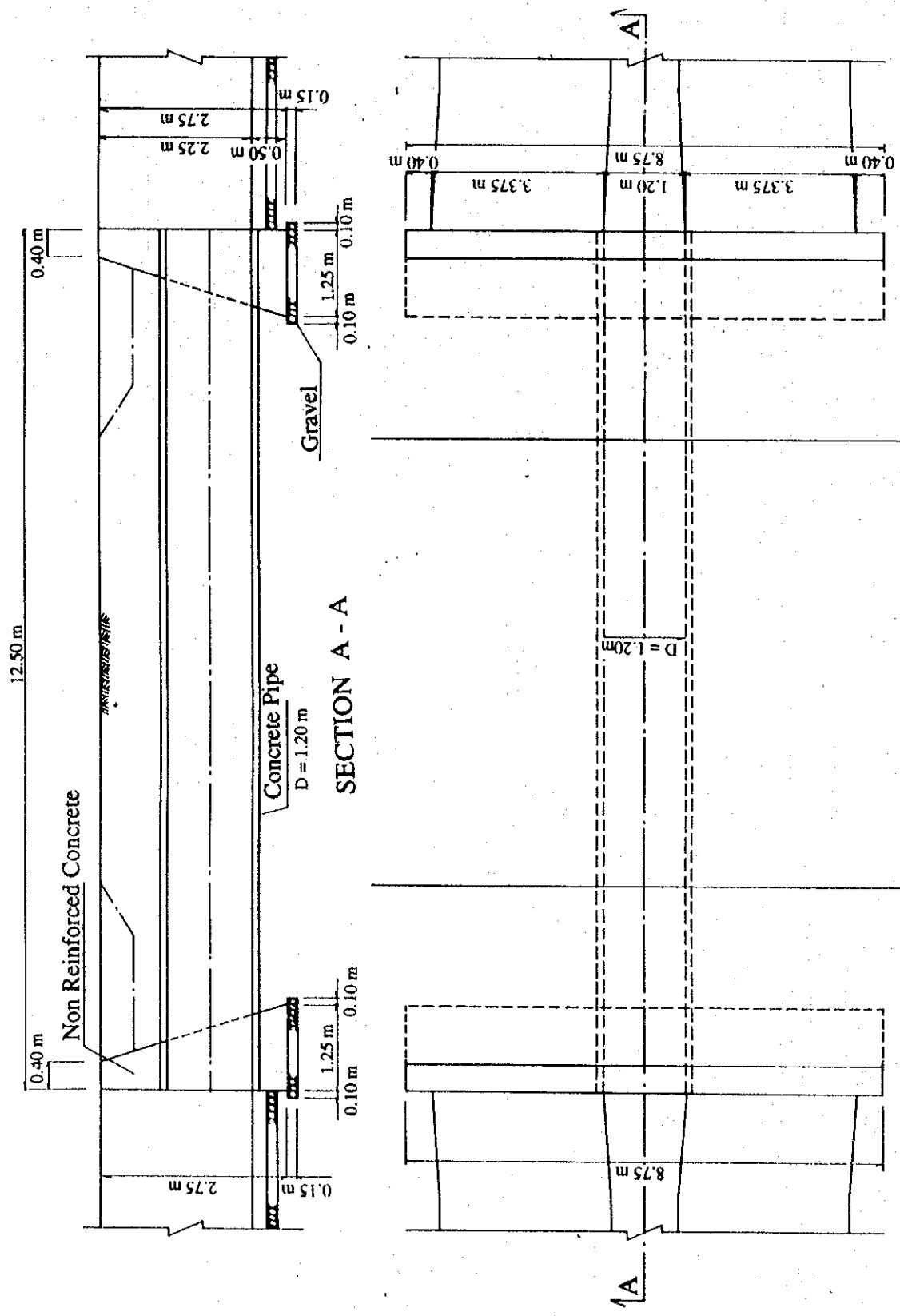


Fig 4.7.1-A20 Typical Road Crossing Structures

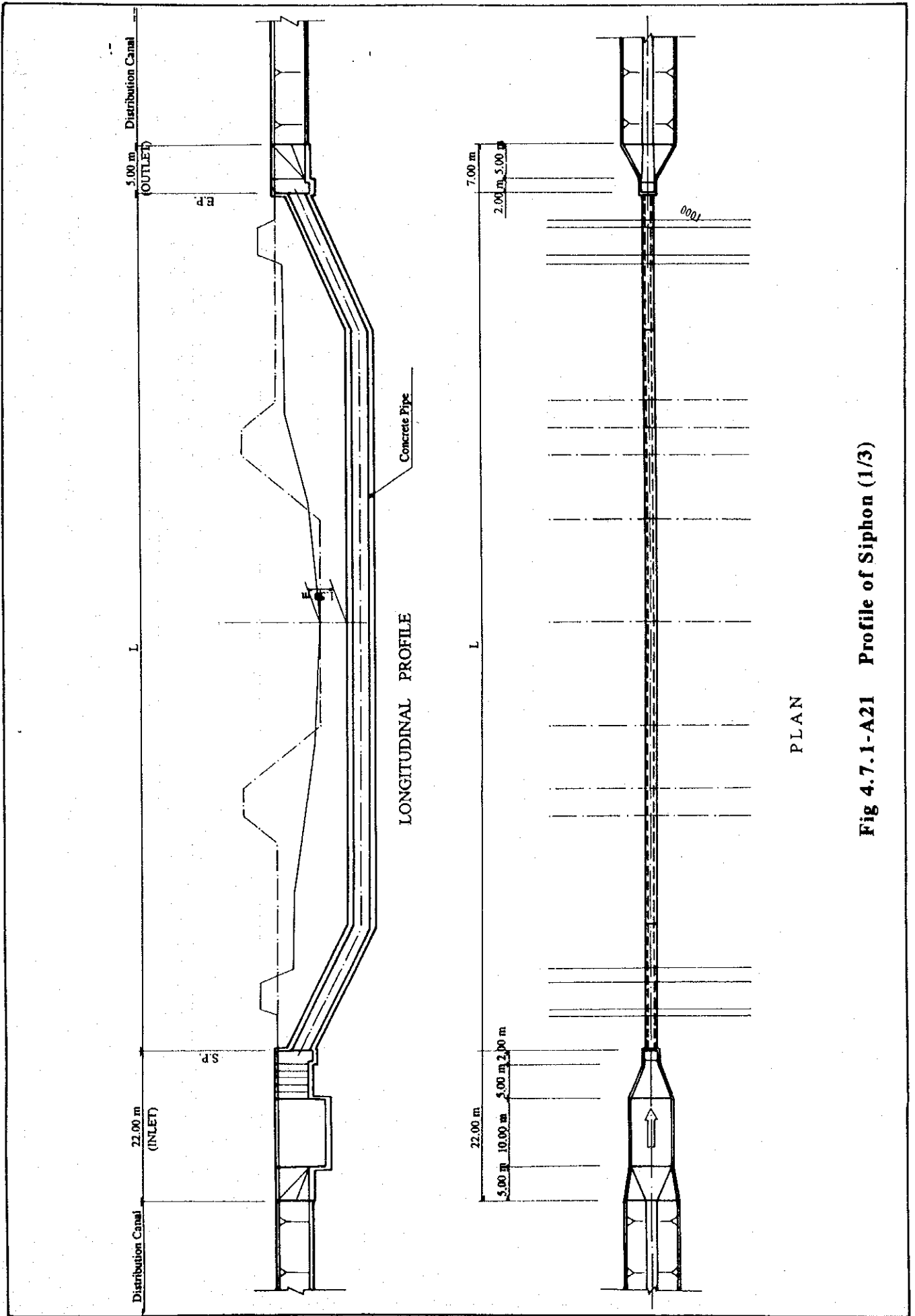
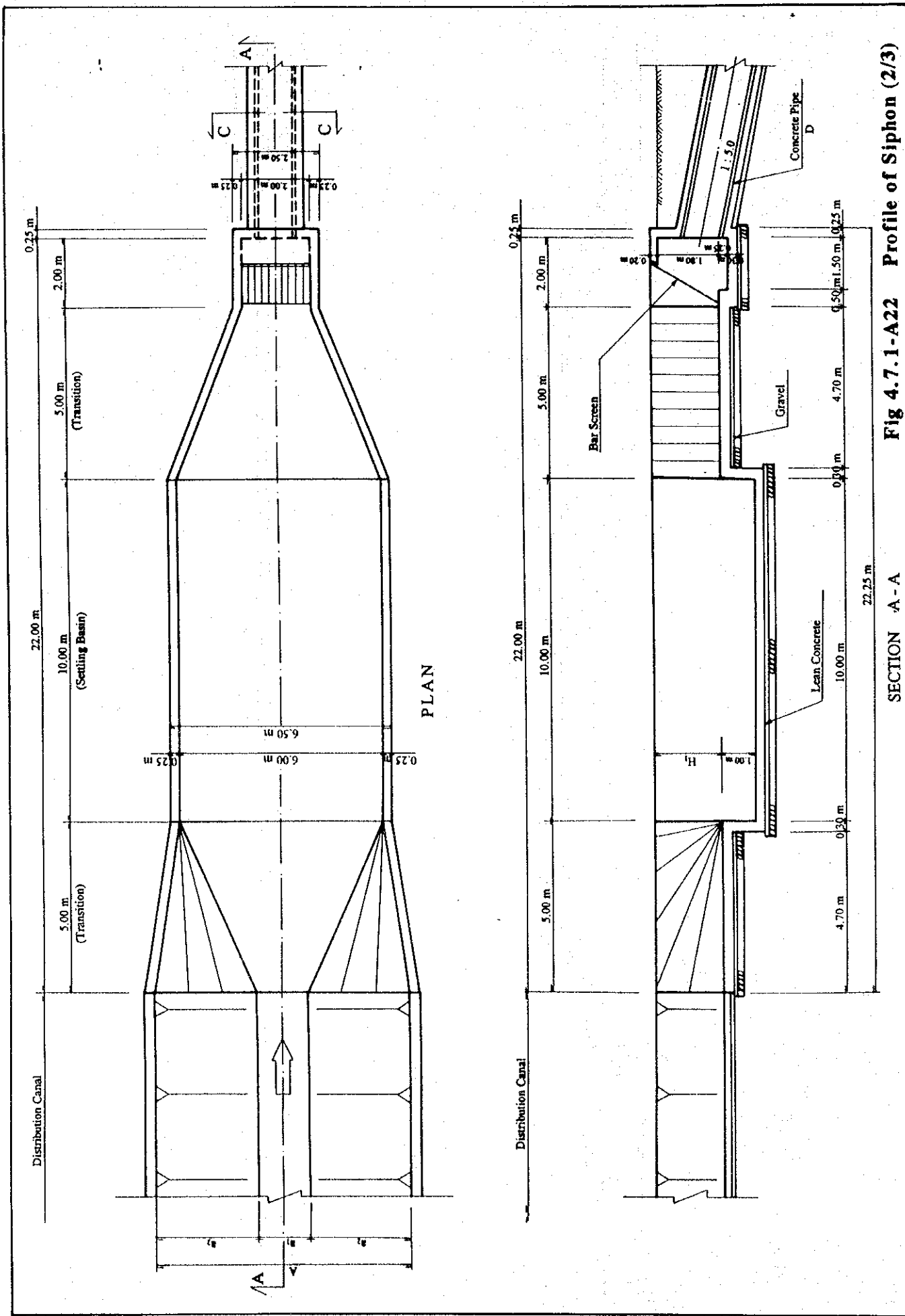
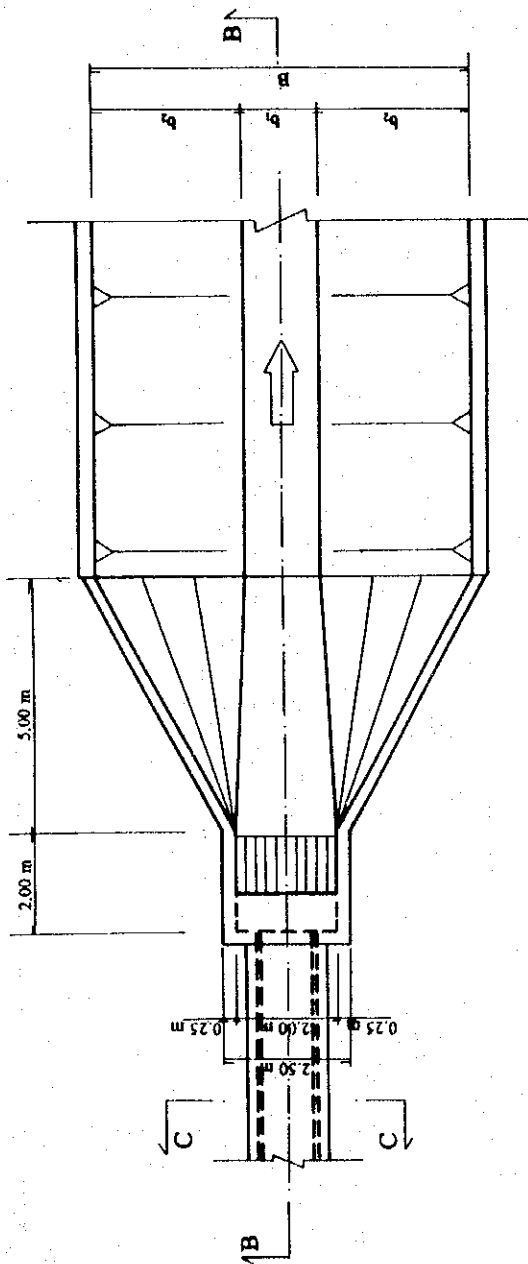


Fig 4.7.1-A21 Profile of Siphon (1/3)

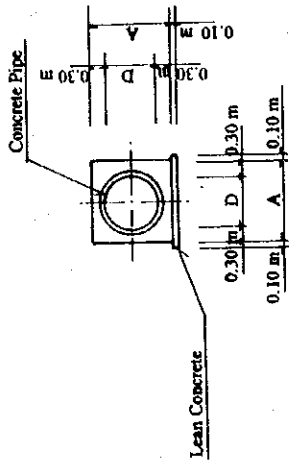
PLAN



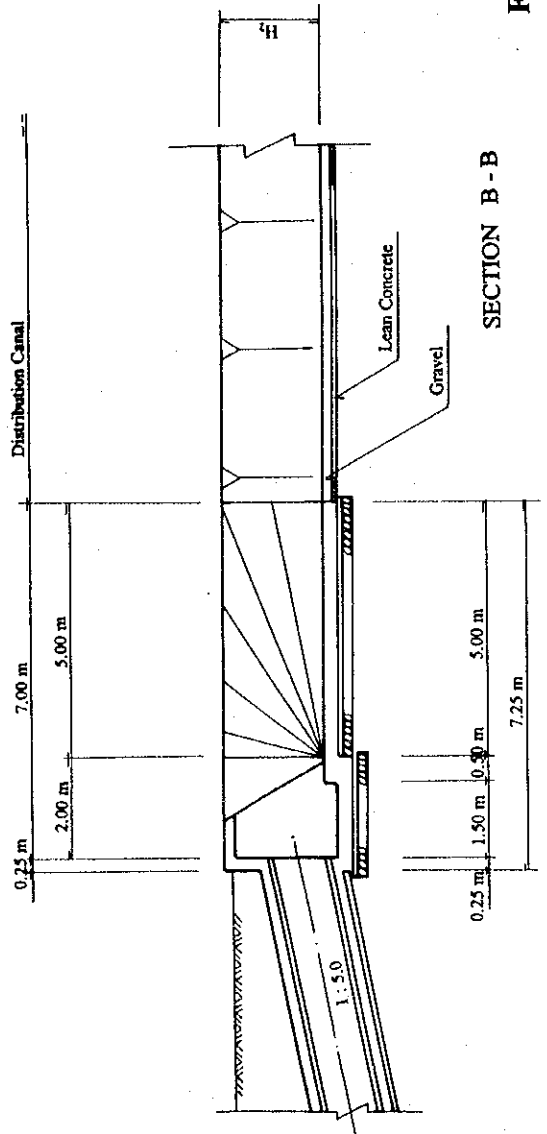




PLAN

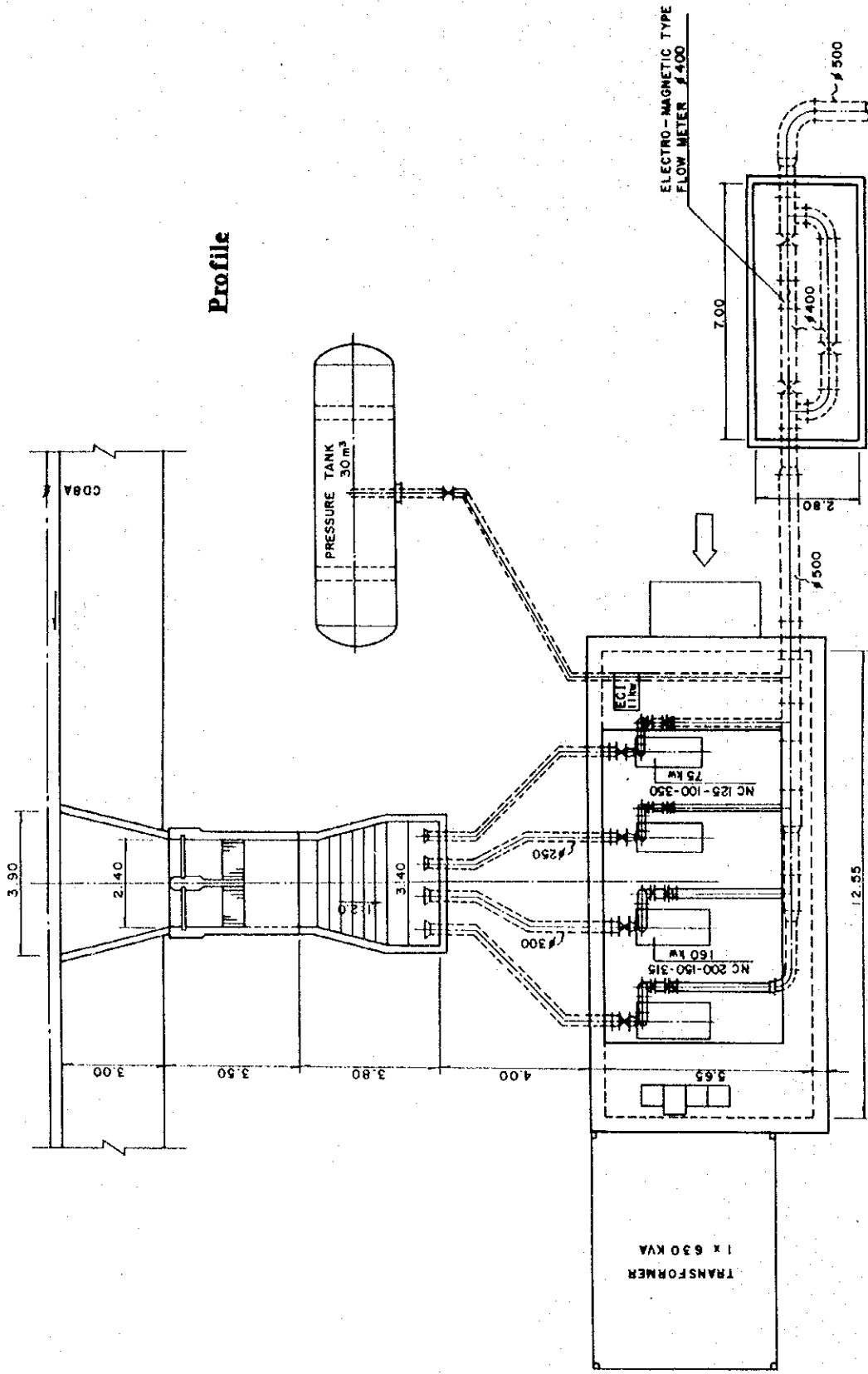


SECTION C-C



SECTION B-B

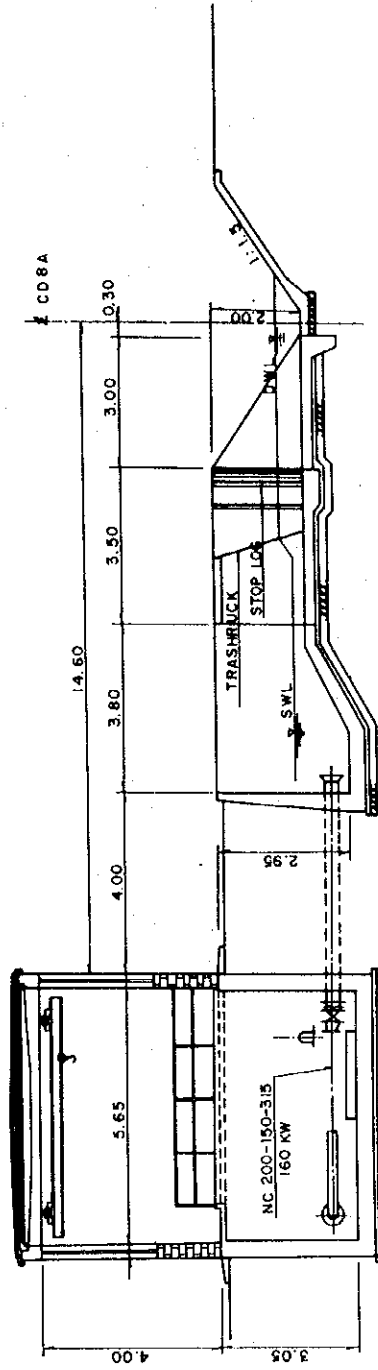
Fig 4.7.1-A23 Profile of Siphon (3/3)



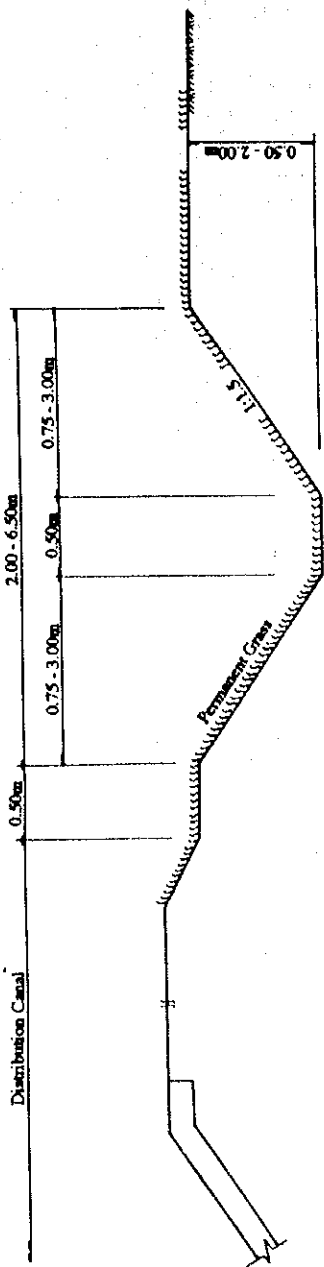
**Profile**

**Fig 4.7.1-A24 Typical Drawing of SPP (1/2)**

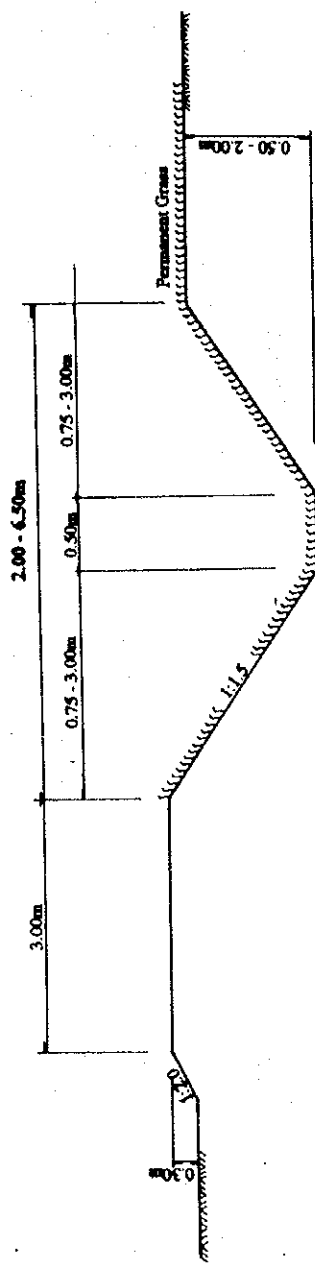
**Cross Section**



**Fig 4.7.1-A25 Typical Drawing of SPP (2/2)**



Type-I



Type-II

Table of Flow Capacity

Bottom Slope  $I=1/1,000$

H (m)	Q (m <sup>3</sup> /s)	V (m/s)	A (m <sup>2</sup> )
0.50	0.24	0.38	0.63
0.75	0.58	0.47	1.22
1.00	1.12	0.56	2.00
1.25	1.89	0.64	2.97
1.50	2.93	0.71	4.13
1.75	4.27	0.78	5.47
2.00	5.93	0.85	7.00

Bottom Slope  $I=1/1,500$

H (m)	Q (m <sup>3</sup> /s)	V (m/s)	A (m <sup>2</sup> )
0.50	0.19	0.31	0.63
0.75	0.47	0.39	1.22
1.00	0.91	0.46	2.00
1.25	1.55	0.52	2.97
1.50	2.39	0.58	4.13
1.75	3.49	0.64	5.47
2.00	4.84	0.69	7.00

Bottom Slope  $I=1/2,000$

H (m)	Q (m <sup>3</sup> /s)	V (m/s)	A (m <sup>2</sup> )
0.50	0.17	0.27	0.63
0.75	0.41	0.34	1.22
1.00	0.79	0.40	2.00
1.25	1.34	0.45	2.97
1.50	2.07	0.50	4.13
1.75	3.02	0.55	5.47
2.00	4.19	0.60	7.00

Fig. 4.7.2-A1 Standard Cross Section of Drainage Canal

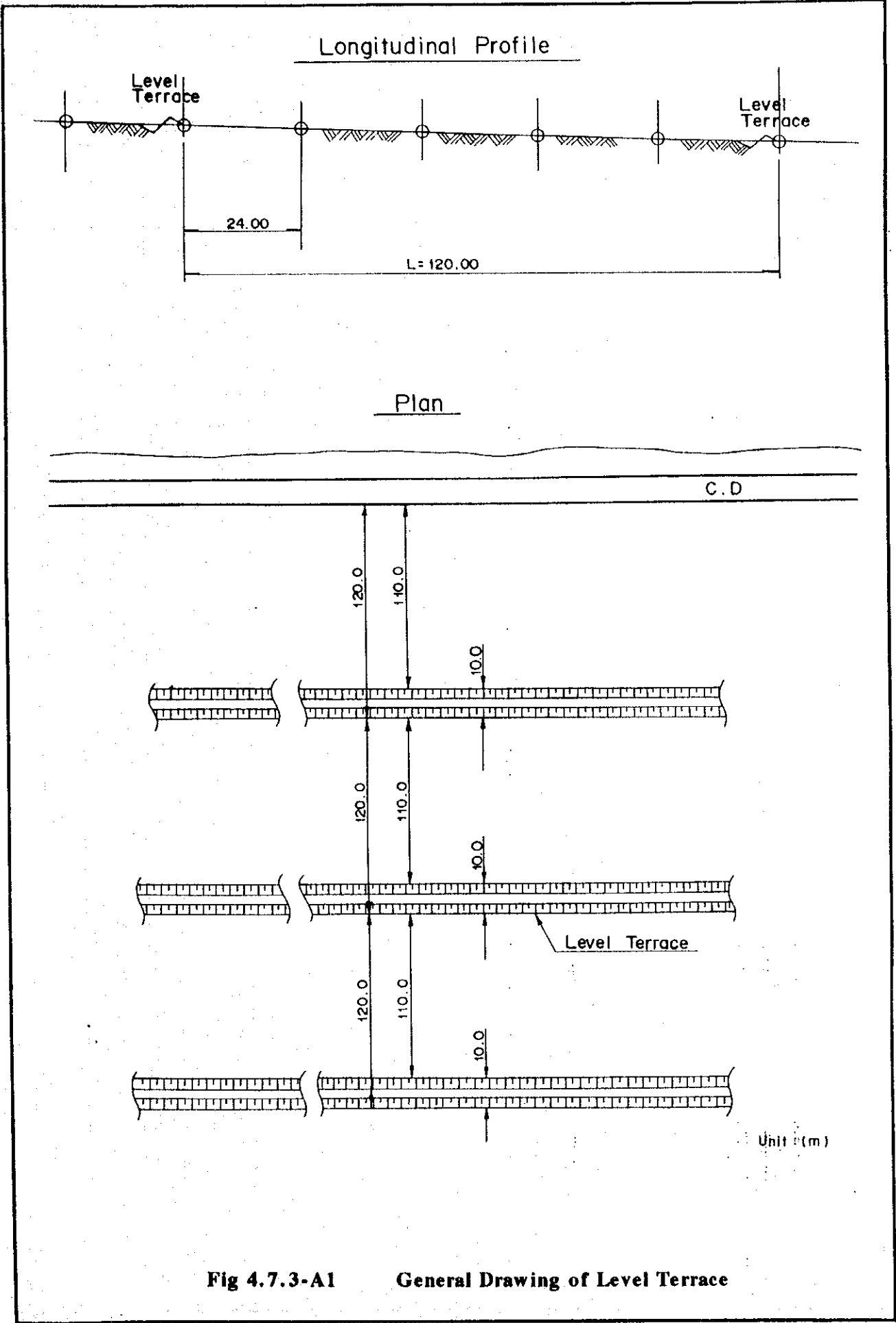
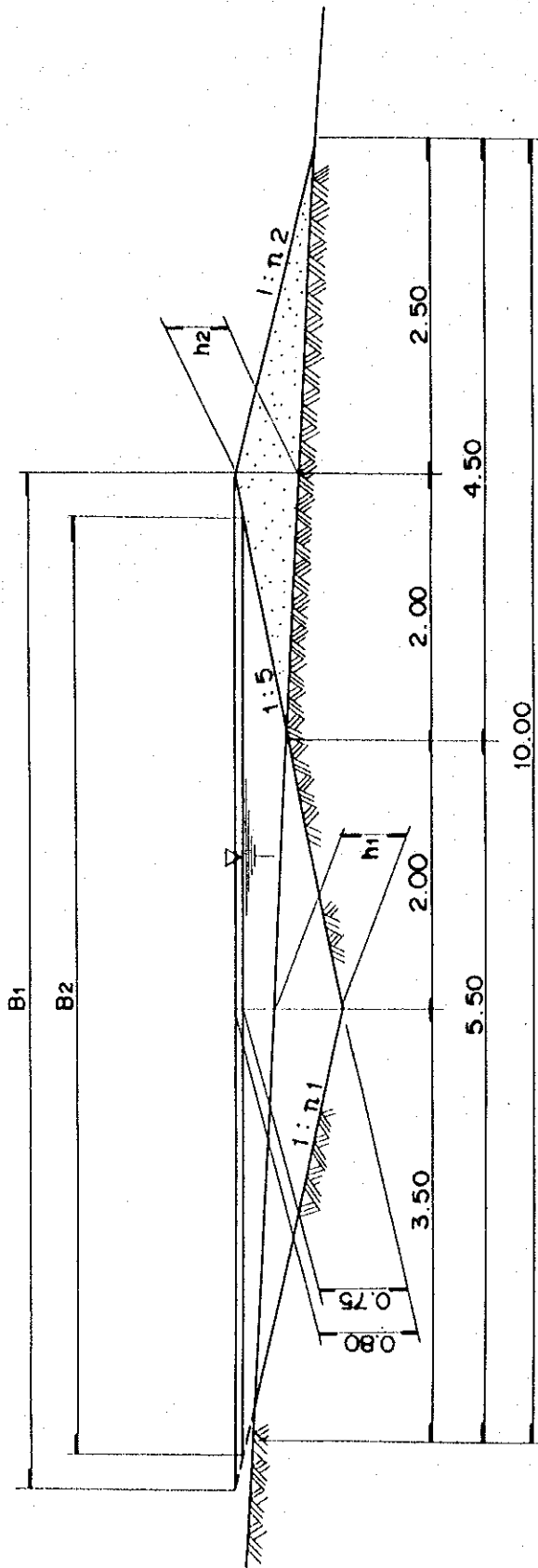


Fig 4.7.3-A1

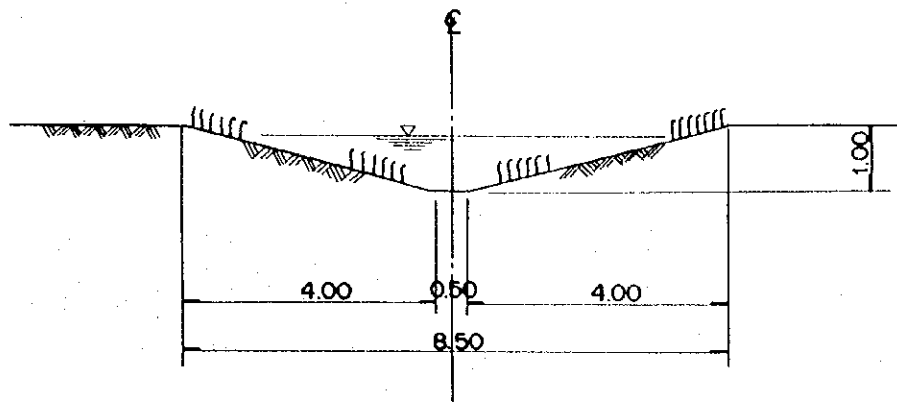
General Drawing of Level Terrace



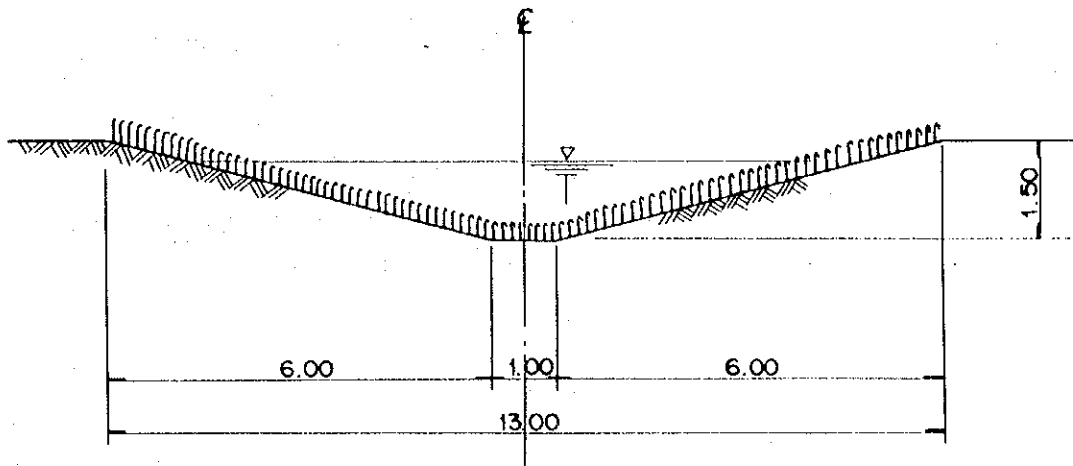
Slope declination	$h_1$ (m)	$h_2$ (m)	$d$ (m)	$B_1$ (m)	$B_2$ (m)	$n_1$	$n_2$	Cut volume (m <sup>3</sup> /m)	Fill volume (m <sup>3</sup> /m)	Terrace storage (m <sup>3</sup> /m)
2%	0.440	0.440	0.750	8.800	8.250	6.000	5.102	1.100	0.990	3.094
3%	0.460	0.460	0.750	8.364	7.841	5.455	4.673	1.150	1.035	2.940
5%	0.500	0.500	0.750	7.692	7.211	4.615	4.000	1.250	1.125	2.704

Fig 4.7.3-A2 Detail of Level Terrace

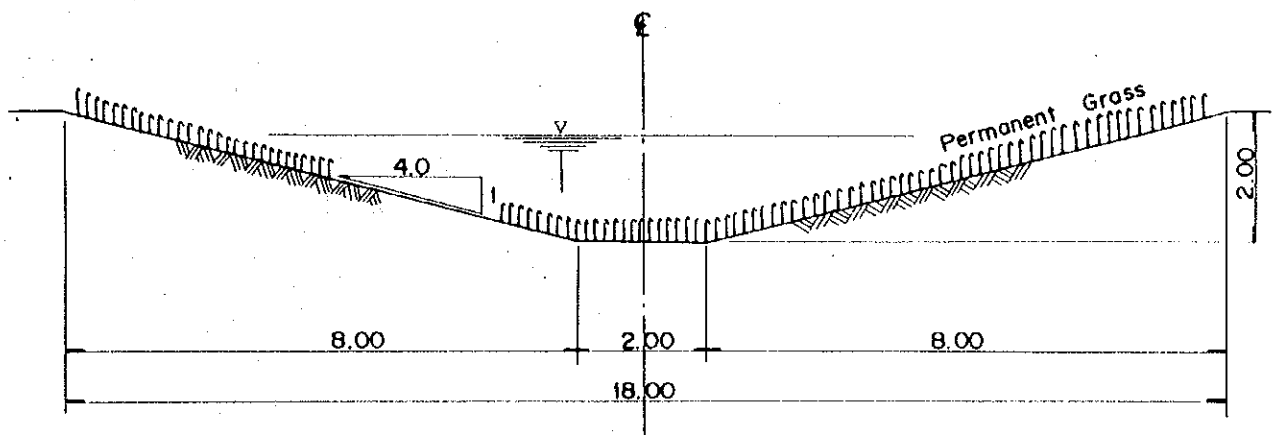




Type C

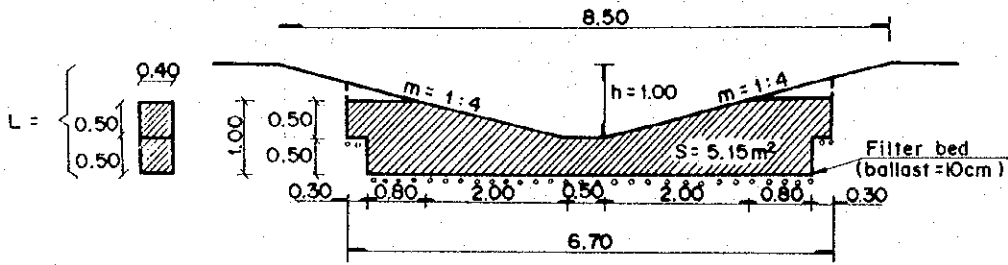


Type B

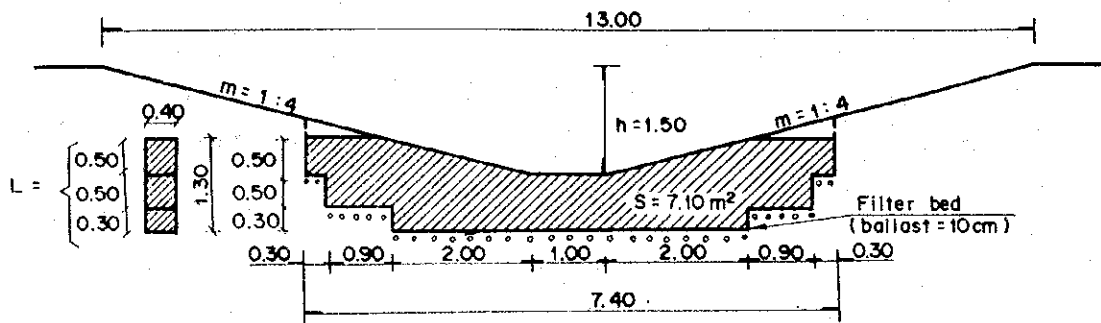


Type A

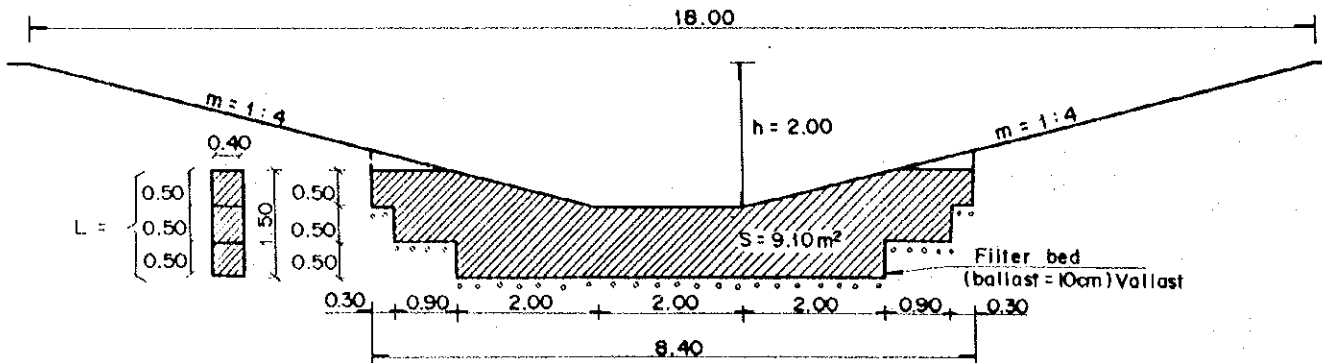
**Fig 4.7.3-A3 Typical Cross Section of Grassed Waterway**



Type C



Type B



Type A

Note : Concrete thickness of every type of cross beam is 0.40m

Fig 4.7.3-A4 Typical Cross Section of Concrete Cross Beam

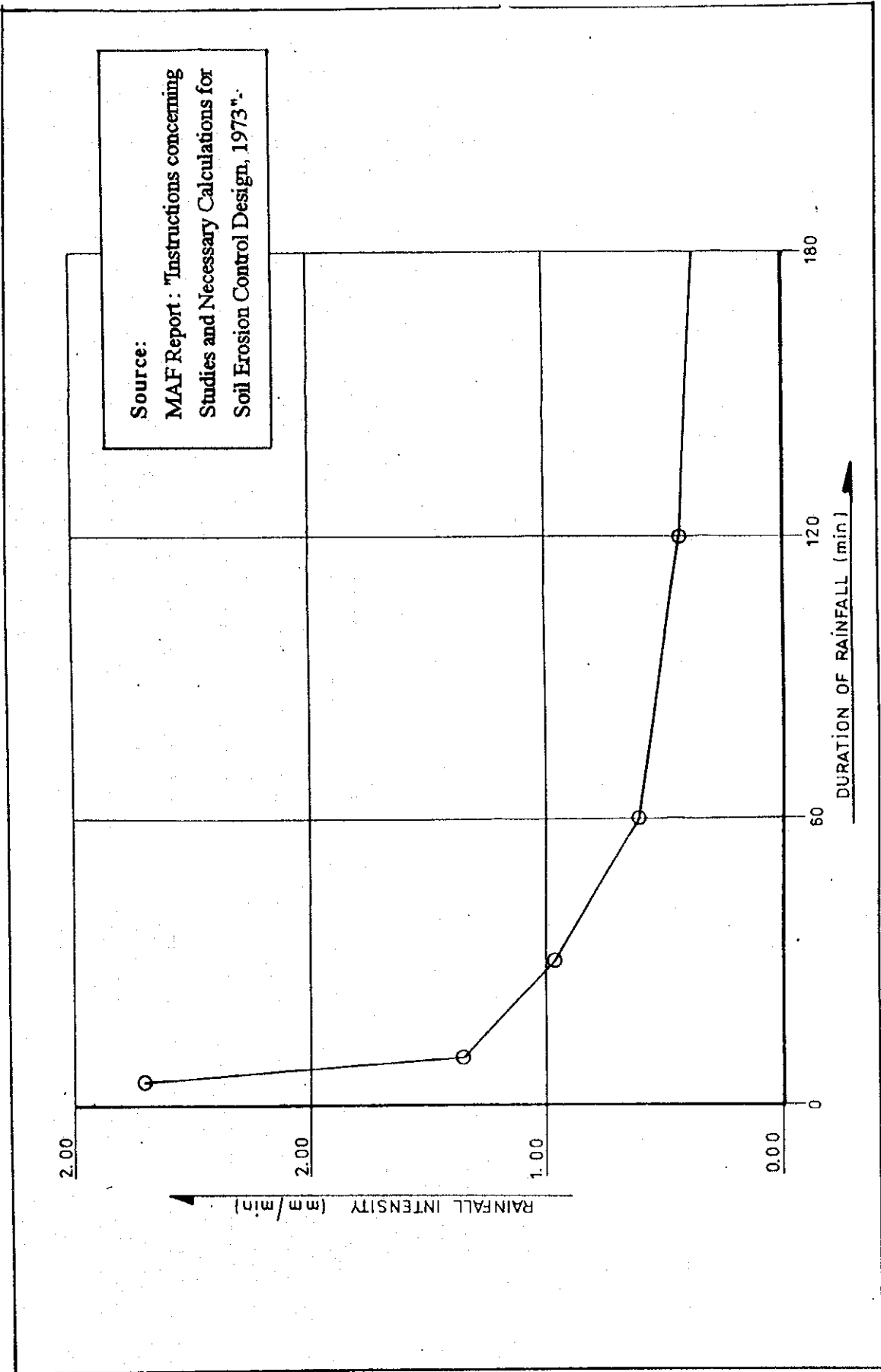
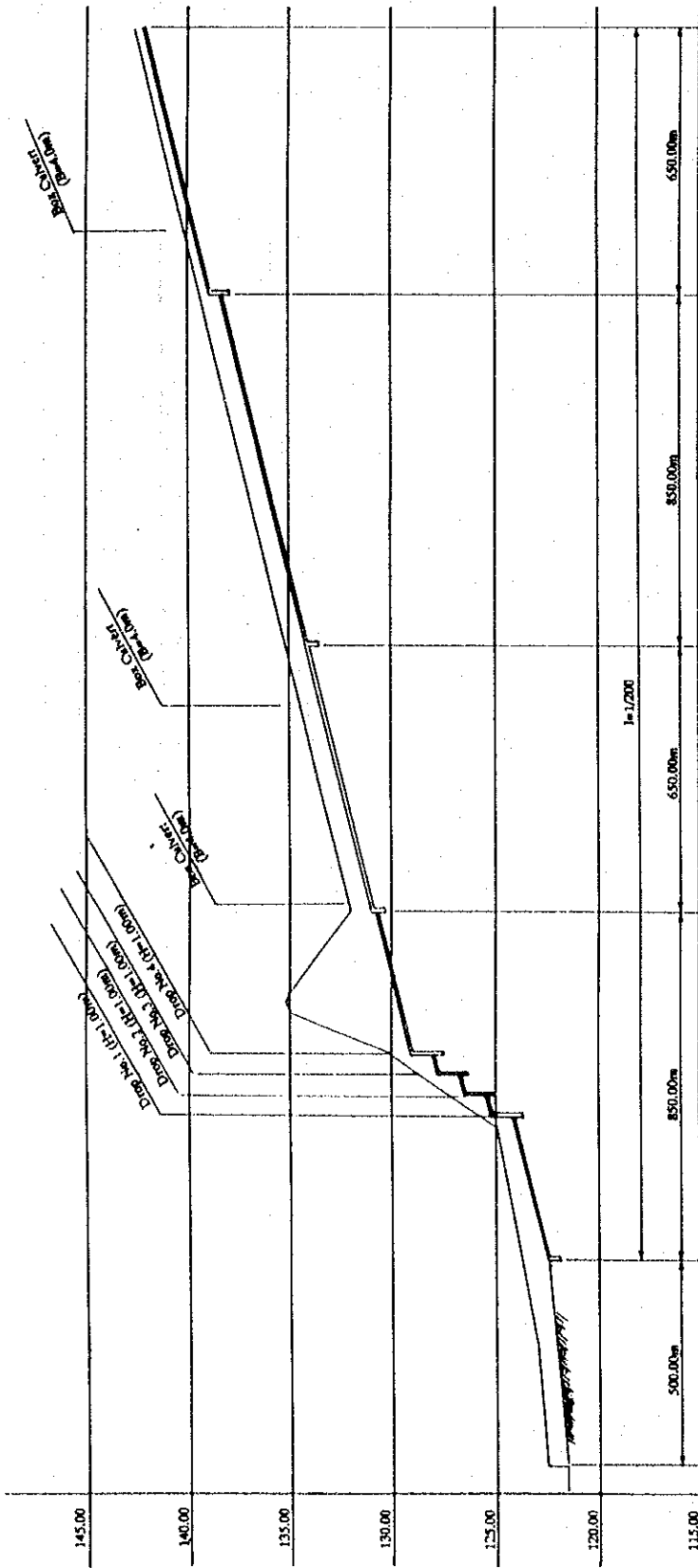


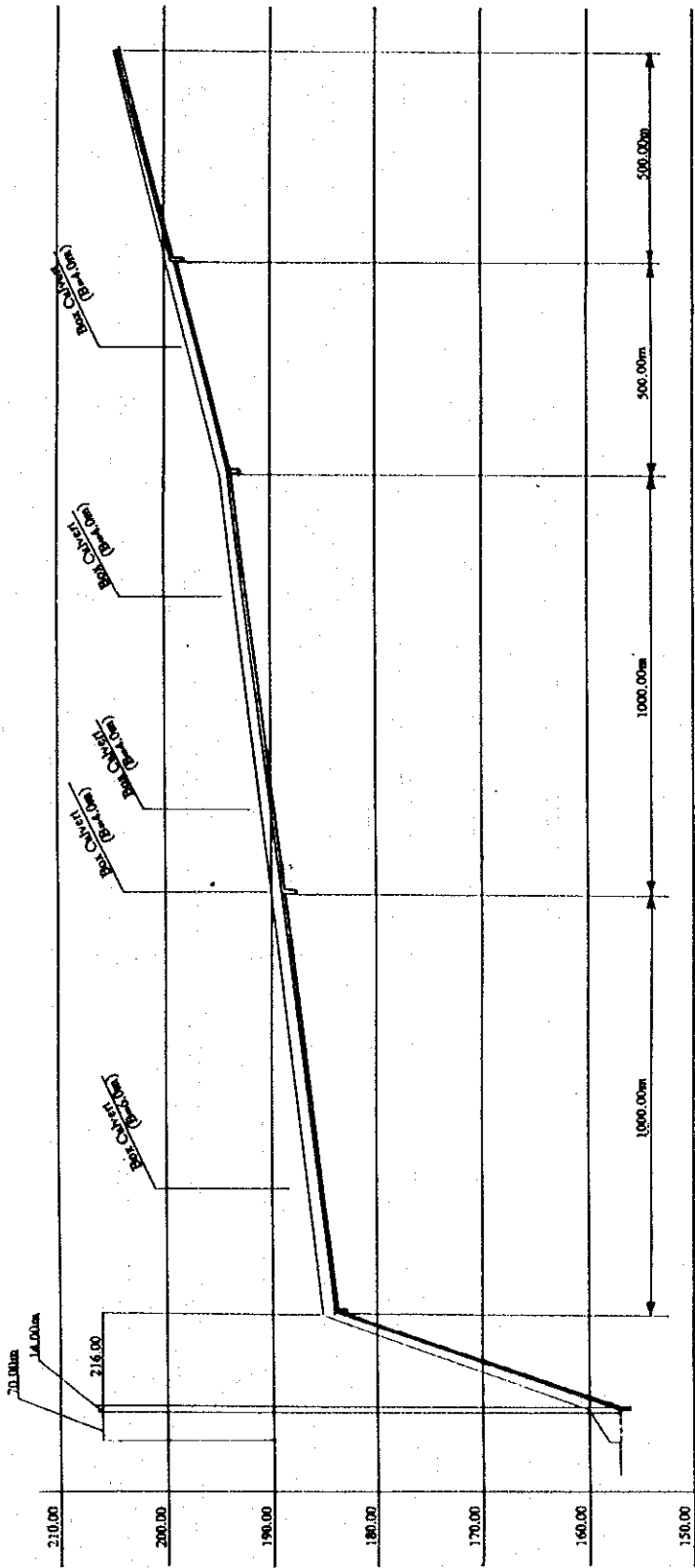
Fig. 4.7.3-A5 Rainfall Intensity in Time of Flood Concentration



CANAL TYPE	Stationing																
	0.00	500.00	1000.00	1500.00	2000.00	2500.00	3000.00	3500.00	4000.00	4500.00	5000.00	5500.00					
DESIGN CANAL BED (m)	122.550	124.300	125.300	128.050	130.800	131.75	134.25	136.000	136.750	138.500	139.000	139.750	141.500	142.250			
GROUND LEVEL (m)	122.55	123.00	123.50	128.050	130.800	131.75	134.25	136.000	136.750	138.500	139.000	139.750	141.500	142.250			
ACCUMULATED DISTANCE (m)	0.00	300.00	500.00	800.00	950.00	1000.00	1100.00	1150.00	1350.00	1500.00	2000.00	2350.00	2500.00	2850.00	3000.00	3350.00	3500.00
STATION	No.0	No.1	No.2	No.3	No.4	No.5	No.6										

Fig. 4.7.3-A6 Longitudinal Profile of TIF-BD1 Canal

MOV-BD1  
Q=8.24 m<sup>3</sup>



① CANAL TYPE	Type D	Type C	Type B	Type A			
② DESIGN CANAL BED (m)	156.650 157.000 184.000 185.000 188.500 189.000 190.000 191.000 192.500 194.000 196.000 197.000 199.000 199.500 201.500 204.500						
③ GROUND LEVEL (m)	185.000 186.000 188.500 185.000 187.500 190.000 190.000 191.000 192.500 194.000 195.000 197.000 199.000 199.500 201.500 204.500						
④ ACCUMULATED DISTANCE (m)	0.0 500.0 1000.0 1500.0 2000.0 2500.0 3000.0 3500.0 4000.0 4500.0 5000.0 5500.0 6000.0 6500.0 7000.0 7500.0						
⑤ STATION	No.0	No.1	No.2	No.3	No.4	No.5	No.6

Fig. 4.7.3-A7 Longitudinal Profile of MOV-BD1 Canal

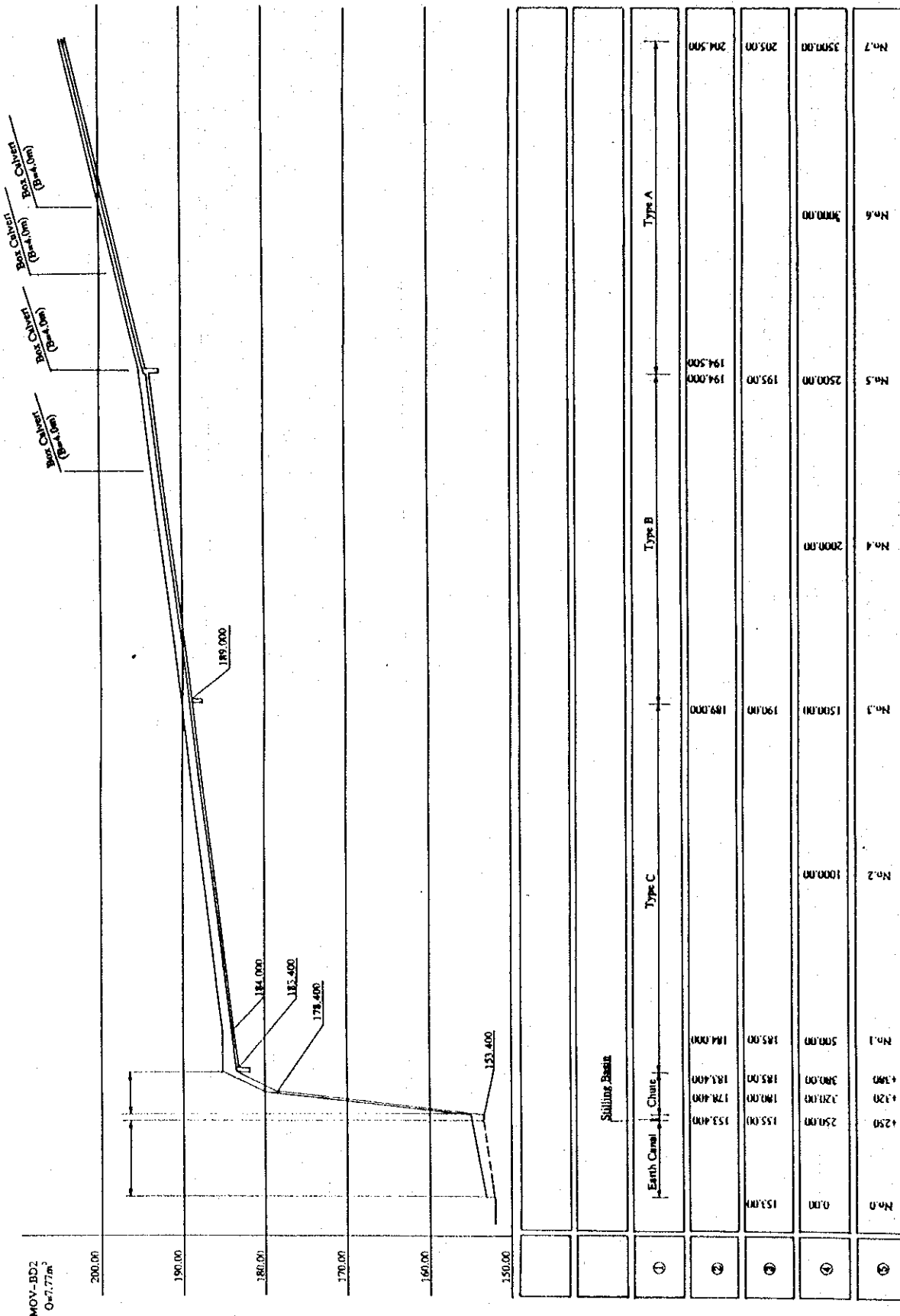


Fig. 4.7.3-A8 Longitudinal Profile of MOV-BD2 Canal

PAU-BD1  
Q=16.05m<sup>3</sup>

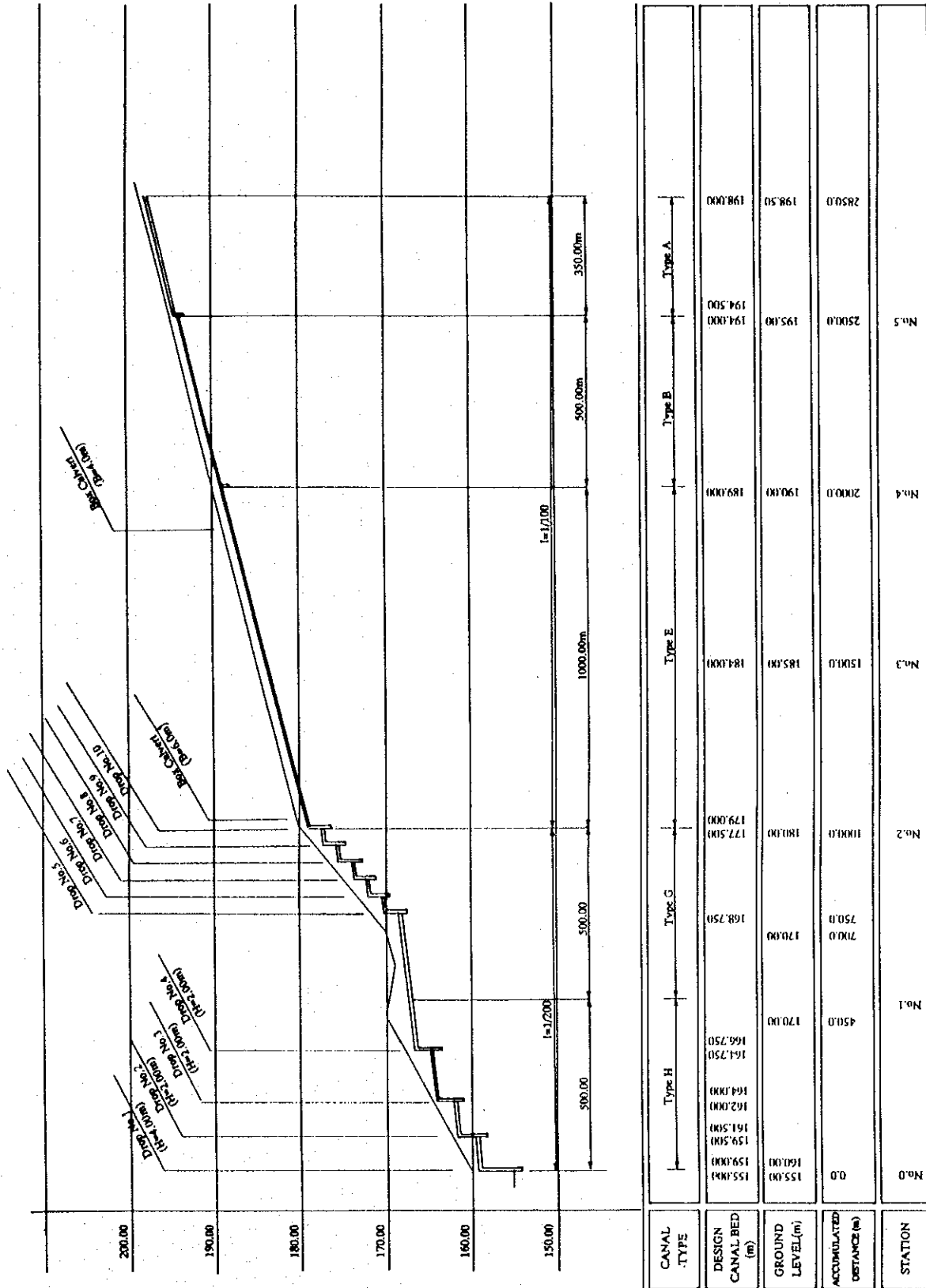


Fig. 4.7.3-A9 Longitudinal Profile of PAU-BD1 Canal



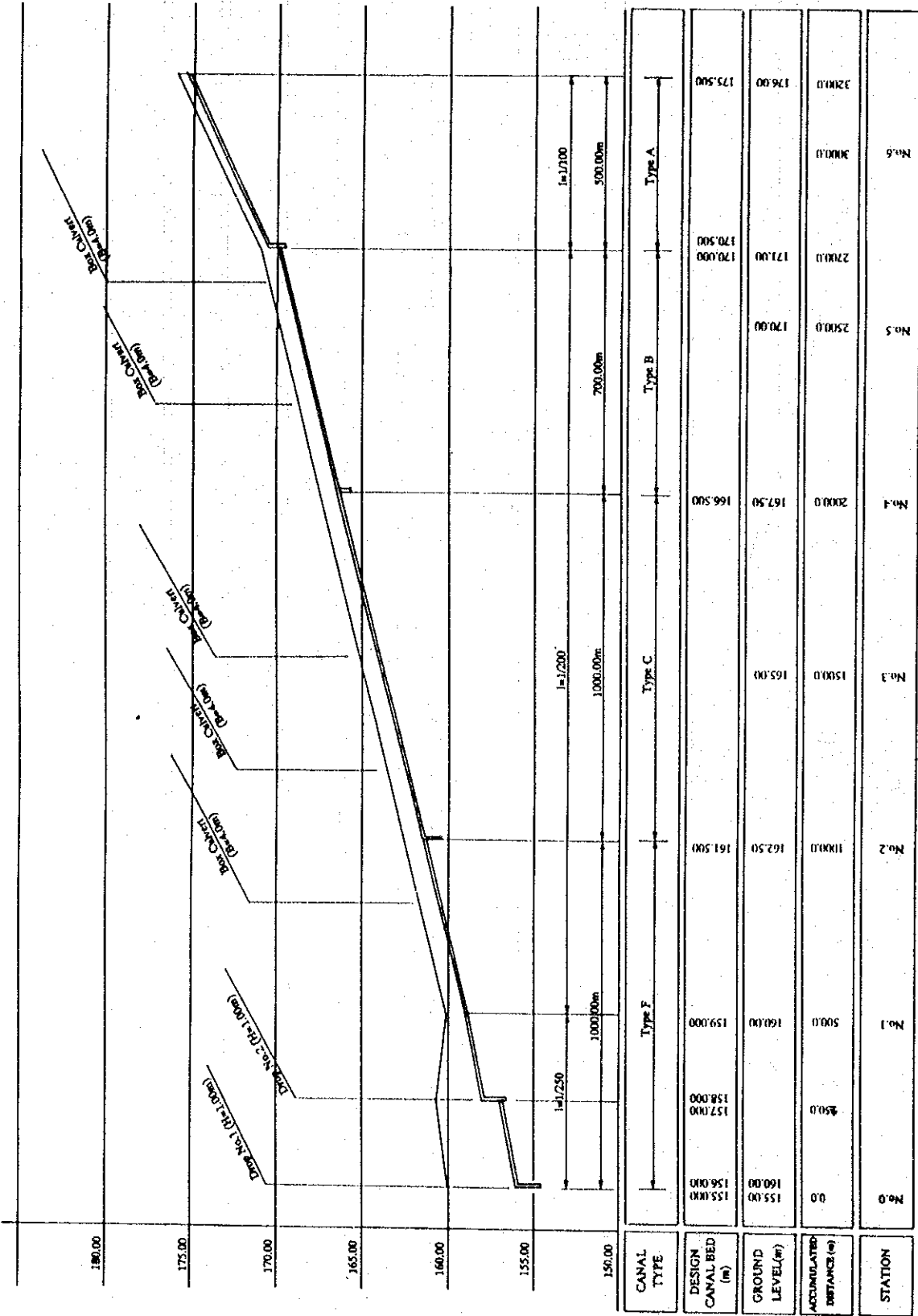
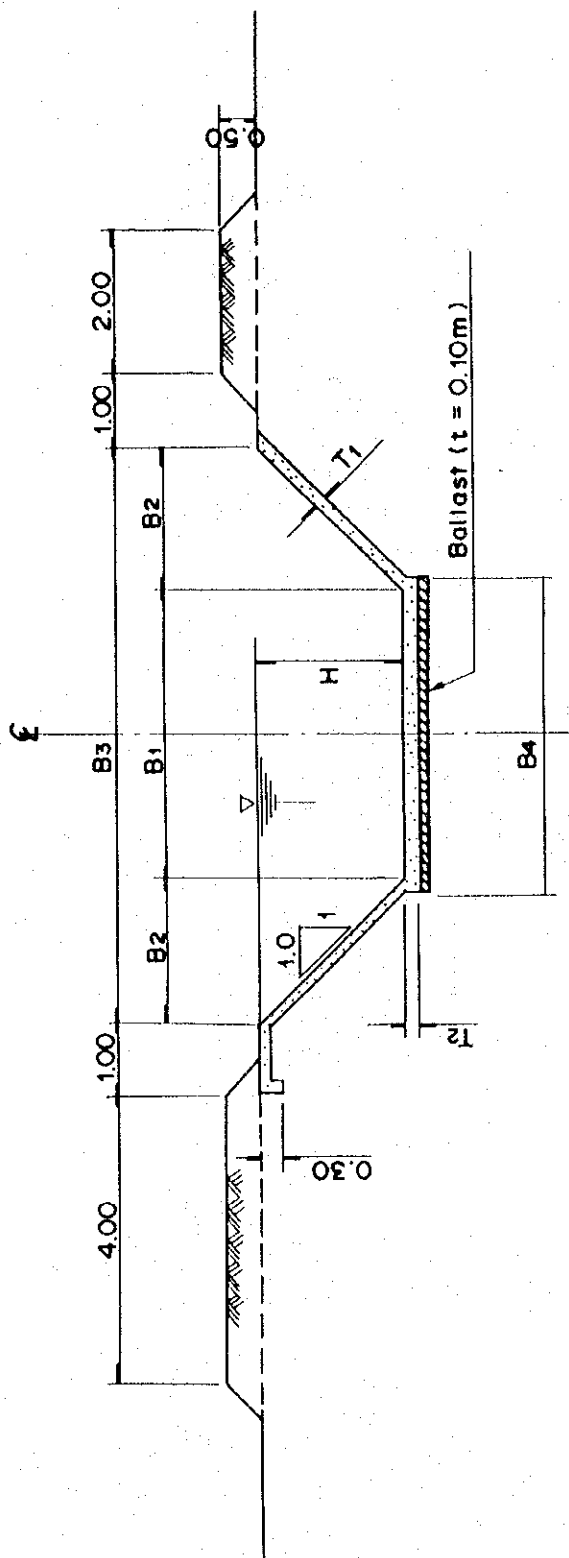
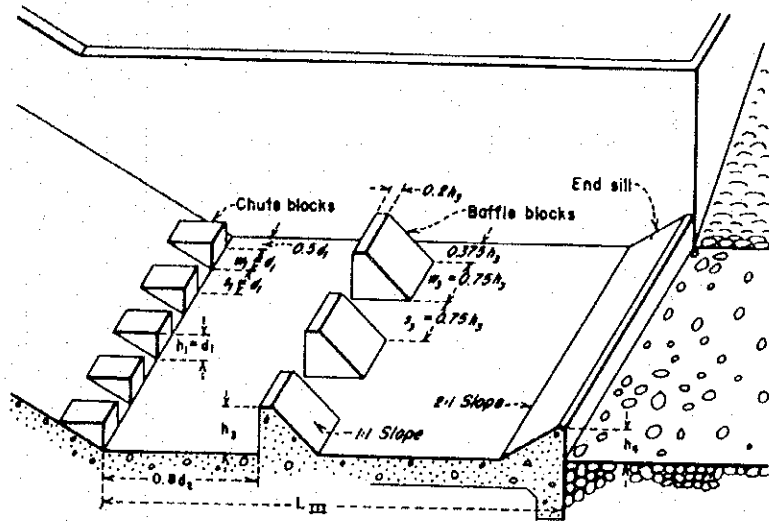


Fig. 4.7.3-A10 Longitudinal Profile of PAU-BD2 Canal



Canal Type	Channel Slope	Capacity (m <sup>3</sup> /s)	B1 (m)	B2 (m)	B3 (m)	B4 (m)	H (m)	T1 (m)	T2 (m)
A	1/100	1.11	0.50	0.50	1.50	0.78	0.50	0.10	0.10
B	1/200	6.12	1.00	1.00	3.00	1.42	1.00	0.15	0.20
C	1/200	7.79	1.50	1.00	3.50	1.92	1.00	0.15	0.20
D	1/200	8.45	1.70	1.00	3.70	2.12	1.00	0.15	0.20
E	1/200	9.40	2.00	1.00	4.00	2.42	1.00	0.15	0.20
F	1/200	9.98	2.20	1.00	4.20	2.62	1.00	0.15	0.20
G	1/200	13.94	2.20	1.20	4.60	2.62	1.20	0.15	0.20
H	1/200	16.38	2.50	1.25	5.00	2.92	1.25	0.15	0.20

Fig 4.7.3-A11 Typical Cross Section of BDC



(A) TYPE III BASIN DIMENSIONS

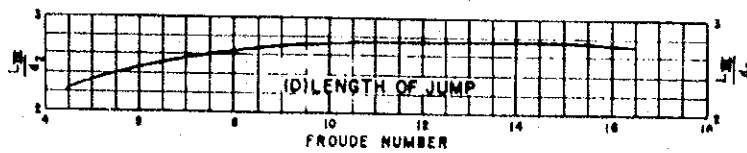
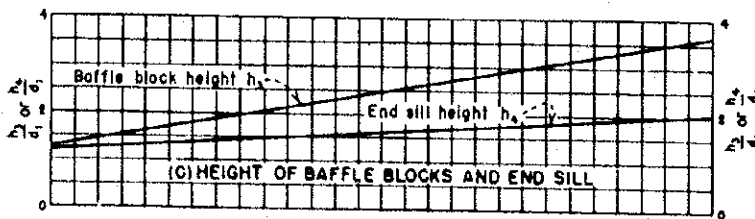
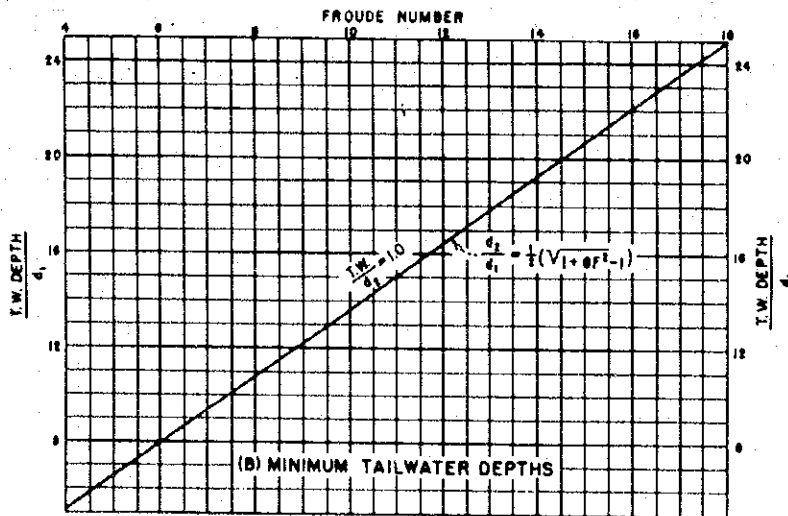
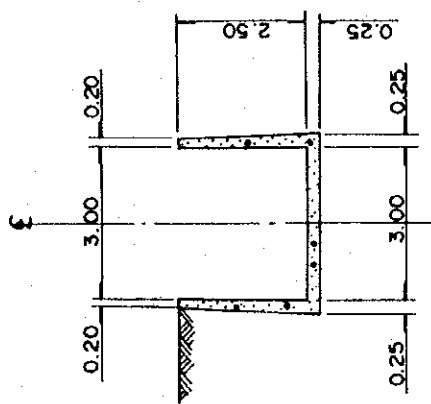
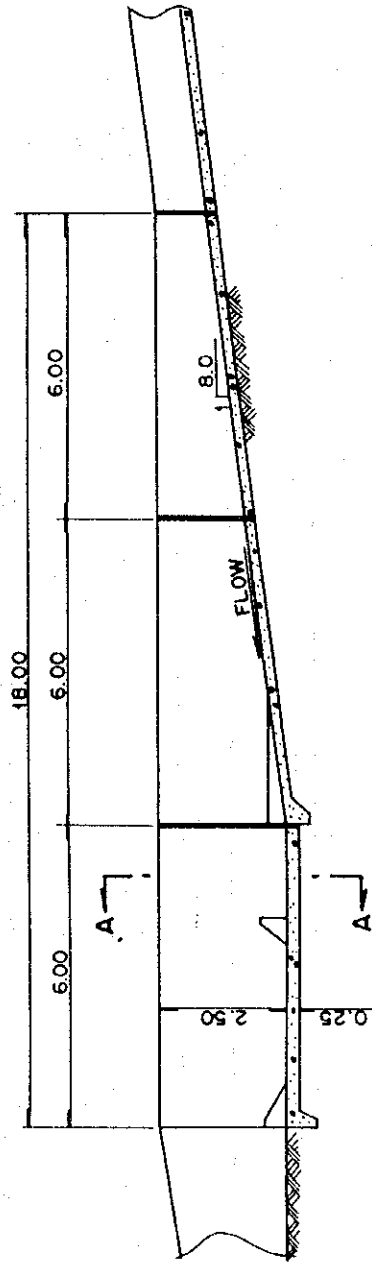


Fig 4.7.3-A12 USBR Type-III of Stilling Basin

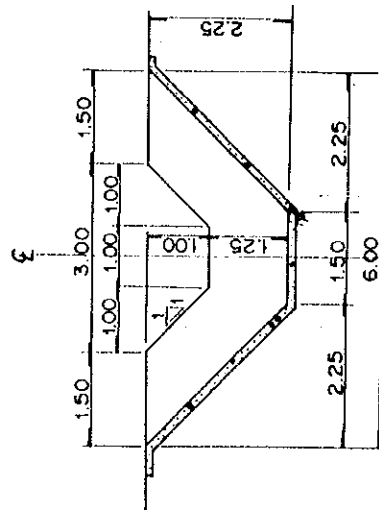


A-A Section

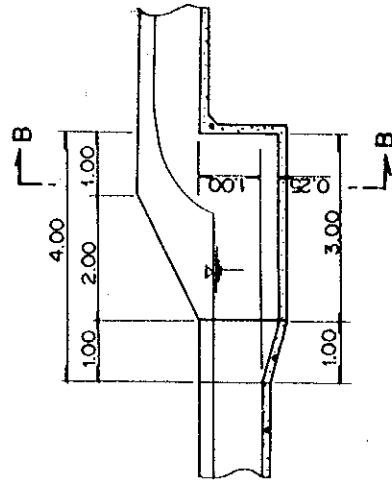


Longitudinal Profile

Stilling Basin for MOV - BDI Chute Works



B-B Section



Longitudinal Profile

Standard Design of Drop Structure

Fig. 4.7.3-A13 Related Facilities for BDC

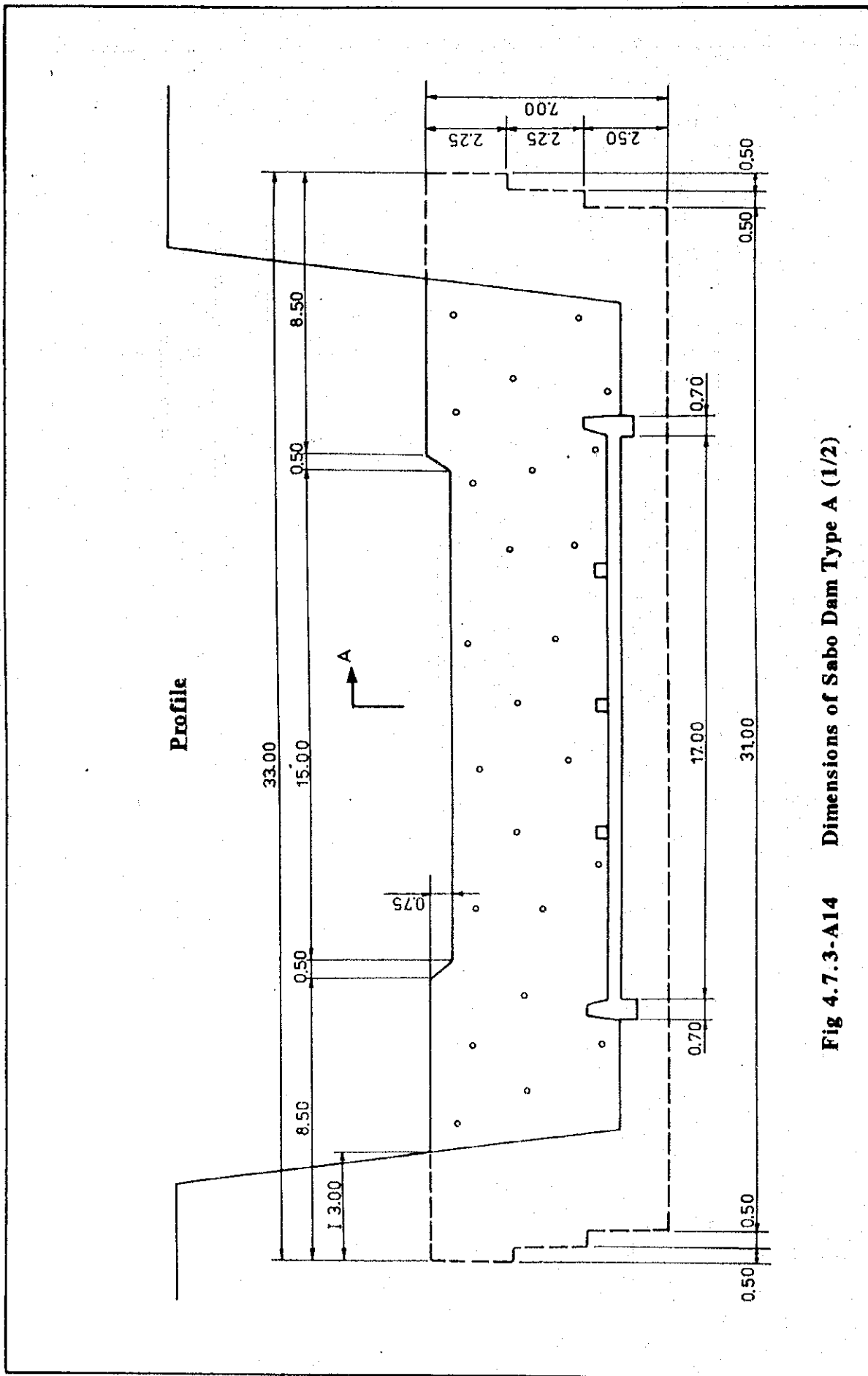
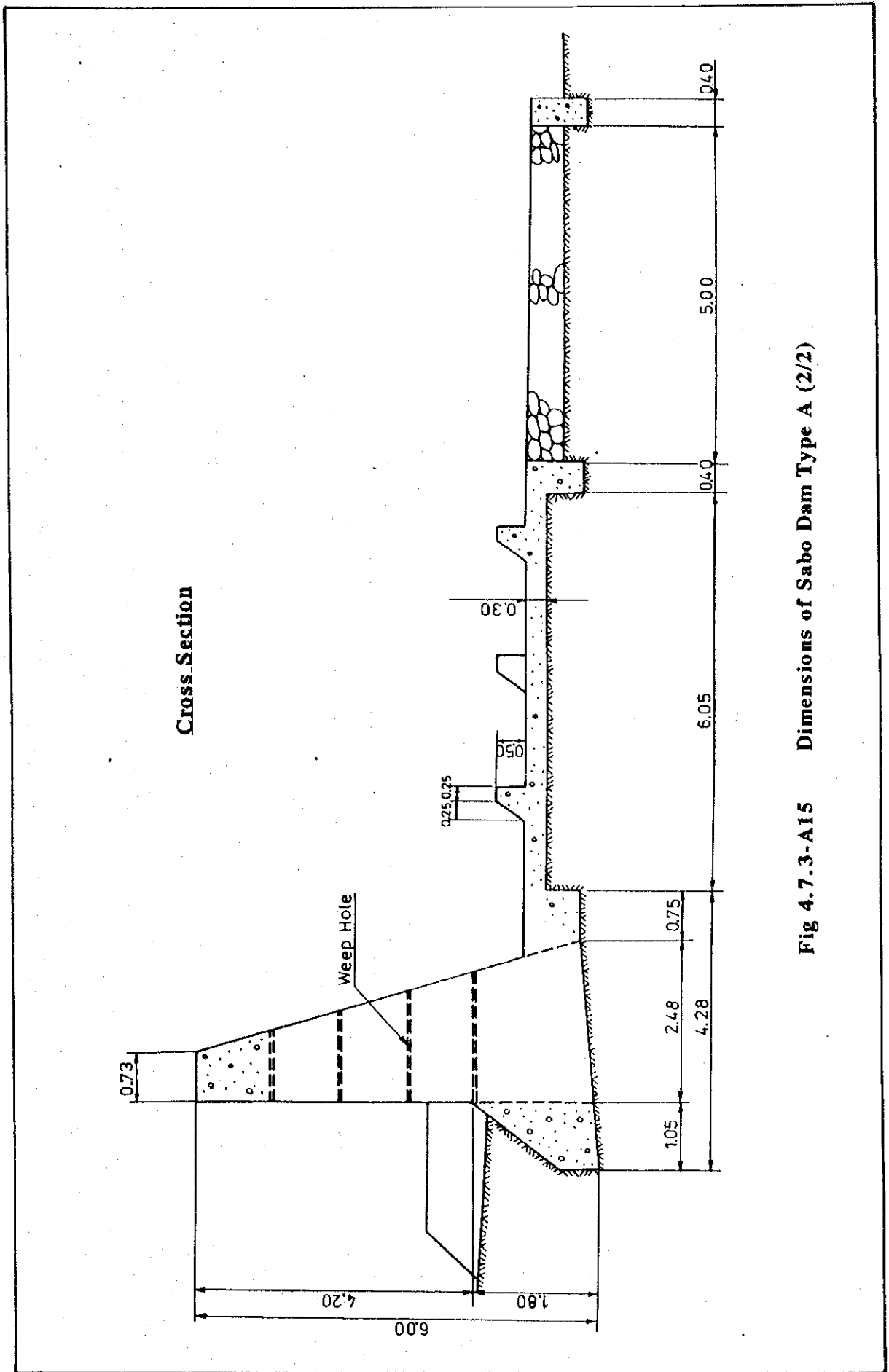


Fig 4.7.3-A14 Dimensions of Sabo Dam Type A (1/2)



**Fig 4.7.3-A15 Dimensions of Sabo Dam Type A (2/2)**

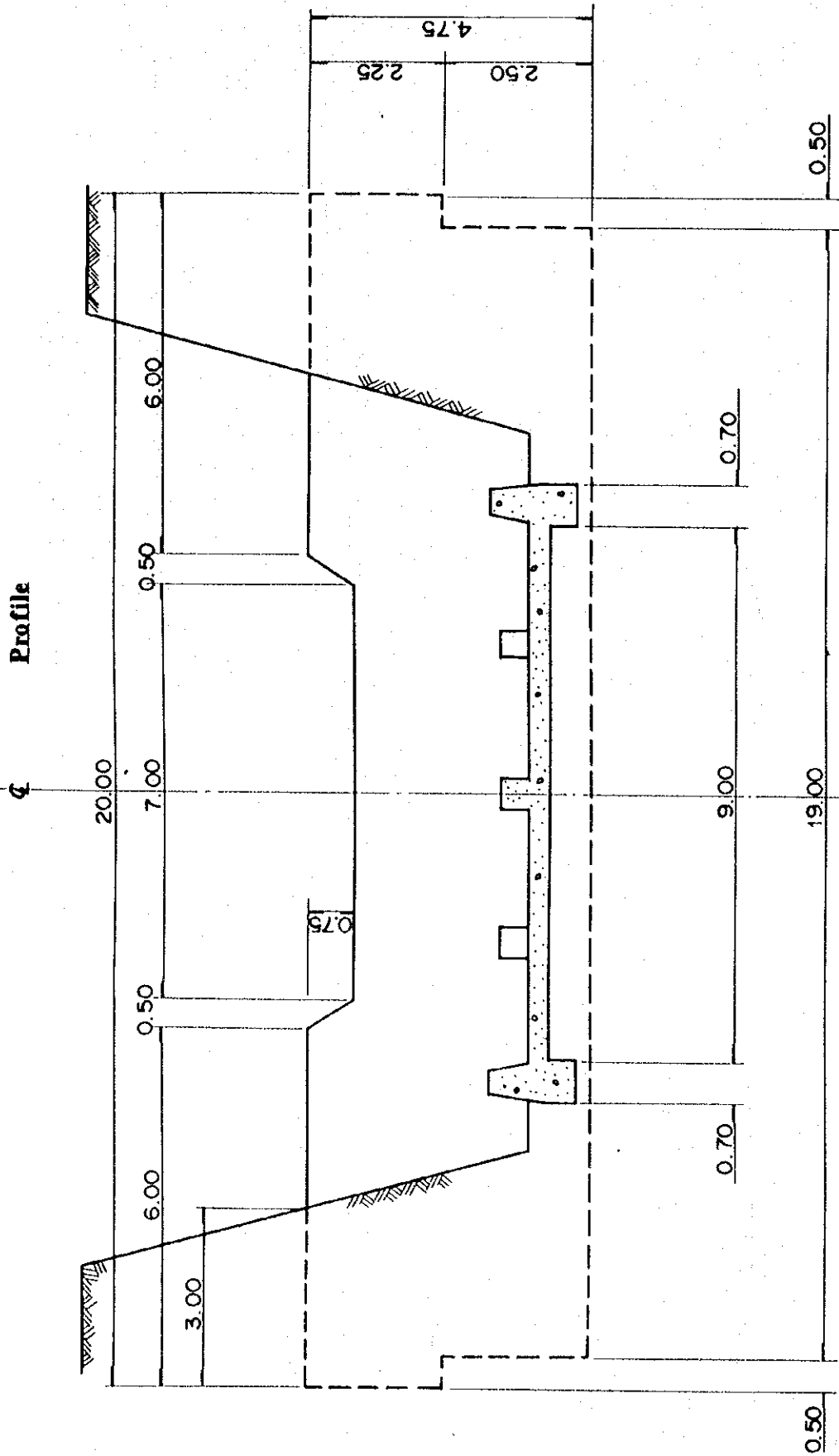
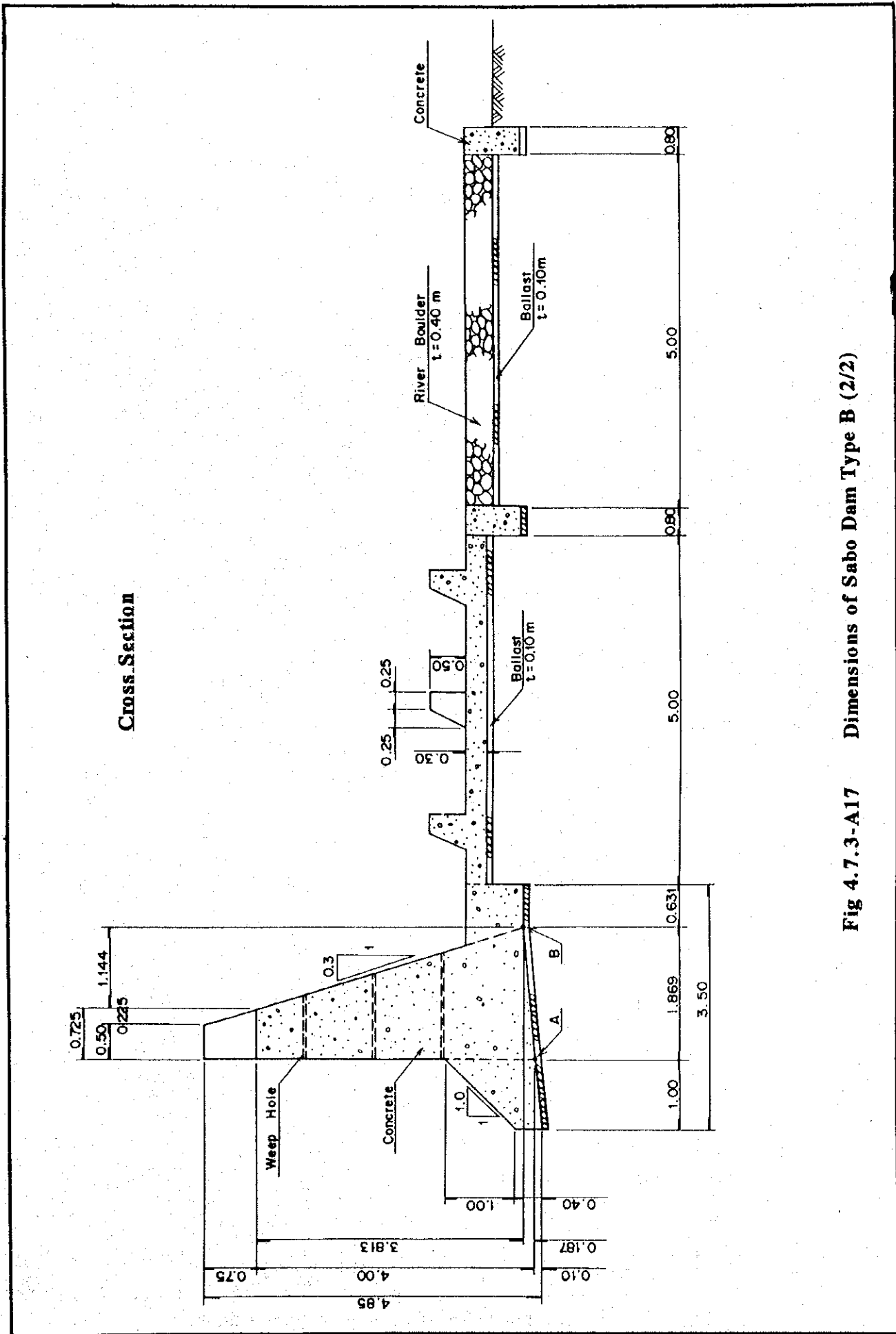


Fig 4.7.3-A16 Dimensions of Sabo Dam Type B (1/2)





**Fig 4.7.3-A17 Dimensions of Sabo Dam Type B (2/2)**

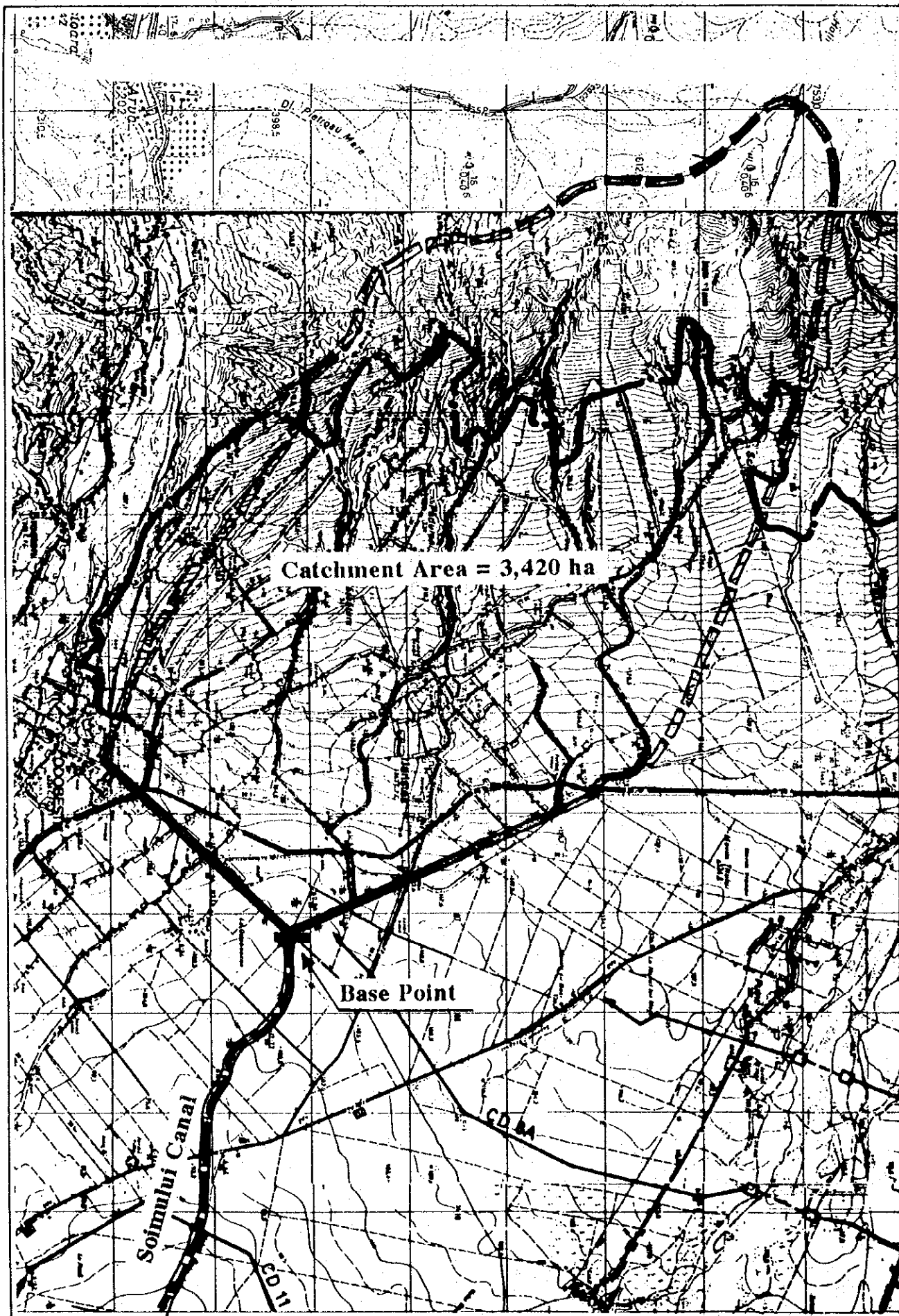
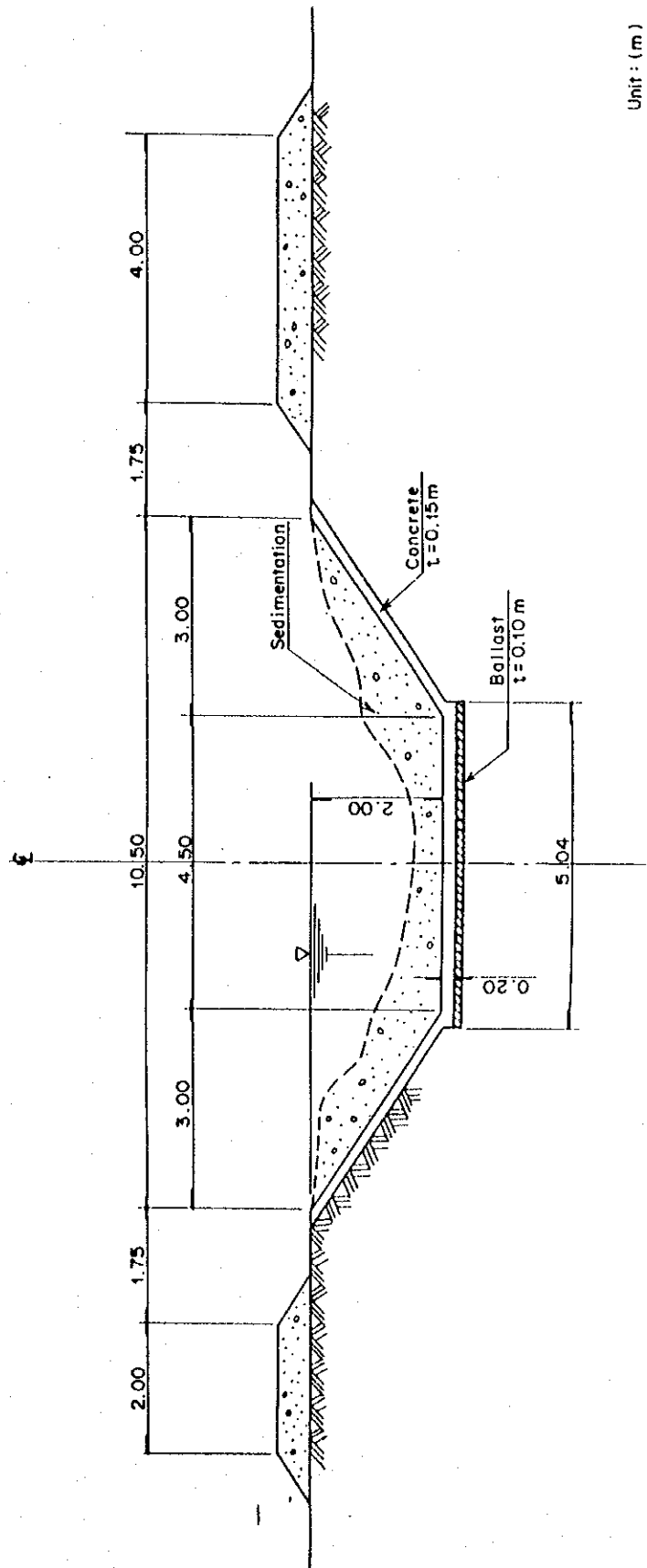


Fig. 4.7.3-A18 Location of Base Point of Soimului Canal



Unit : ( m )

Fig. 4.7.3-A19 Cross Section of Soimului Canal